

 ATLANTIS PUBLISHING CORPORATION

A Programmer's Guide to Video Display Terminals

STEPHENS

A Programmer's Guide to Video Display Terminals

by David Stephens

 ATLANTIS

0-936158-01-8

A Programmer's Guide to Video Display Terminals

David Stephens

**ATLANTIS PUBLISHING CORPORATION
DALLAS**

© 1985 by Atlantis Publishing Corporation

All rights reserved

Printed in the United States of America

While every precaution has been taken in the preparation of this book, the publisher assumes no responsibility for errors or omissions. Neither is any liability assumed for incidental or consequential damages resulting from the use of the information contained herein.

CP/M® is a registered trademark of Digital Research Incorporated.

Teletype® is a registered trademark of Teletype Corporation.

WordStar® is a registered trademark of Micropro International Corporation.

dBase II® is a registered trademark of Ashton-Tate, Inc.

TRS-80® is a registered trademark of Tandy Corporation.

Product names of video display terminals and microcomputers described in this book are trademarks or registered trademarks of their manufacturers.

Published by

Atlantis Publishing Corporation

P.O. Box 59467

Dallas, Texas 75229

ISBN 0-936158-01-8

Cover design by Peggy Holcomb

Contents

Preface	5
Programming for Video Display Terminals	7
Screen layout and nomenclature	7
Clearing the screen	8
Cursor addressing	9
Delay after cursor positioning	14
Scrolling	15
Cursor home	16
Erasure	16
Video attributes	17
Cursor control keys	19
ANSI X3.64 standard	21
Data Sheets	22
Appendix 1—ASCII Code Conversion Chart	321
Index by Manufacturer	322
Index by Terminal	324
Index by Cursor Address Lead-in	326
Index by Clear-Screen Sequence	328
Index by Row or Column First in Cursor Address	330
Index by Form of Cursor Address	332
Index by Cursor Keys	334

Preface

When computers first began to appear the principal input/output device used was the Teletype®. This machine had long been used for sending and receiving coded messages by wire and was readily available in large numbers at reasonable prices. No great attempt was made to improve on it, since it was adequate for the low level of communications necessary to operate the system.

When the first microcomputer appeared the Teletype® was still the primary input/output device, again because it was readily available and relatively inexpensive. The early microcomputer users were served quite well by the Teletype®, since they were interested more in developing programs than displaying data.

The advent of the Video Display Terminal (VDT) was nearly as significant as the microcomputer itself. While the microcomputer brought cheap computing power to users who could not previously afford it, the VDT made possible spreadsheet and word processing programs that would not effectively run on hard-copy terminals.

The earliest VDTs were used as “glass Teletypes,” displaying data line for line and scrolling when the screen filled. The true power of the VDT, however, was in its ability to display data anywhere on the screen in a random manner, something that no hard-copy terminal could do, and to display it at extremely rapid rates. This made it possible to design screen forms and allow a program to fill in the blanks. It also made possible word processing, where the screen was filled with text and editing could be done anywhere on the screen, with the screen redrawn as necessary.

The explosion of demand for VDTs resulted in many companies marketing terminals, and a wide range of features and control code sequences. The programmer was faced with the problem of designing a program which would run on a number of different terminals. While most VDTs operate in a similar manner, the code sequences necessary

to direct their operation vary widely. A program designed to run only on one terminal will face a limited market, as computer users will have a variety of VDTs connected to their computers.

The computer user faces considerable frustration when he purchases a program and discovers that it does not support his terminal. He is left with the task of trying to “custom support” his terminal, or in extreme cases, finding that he cannot use the program at all without buying a different terminal. VDT manuals are as notorious as software documentation in that many people are unable to understand the code structure necessary to get a program running on their terminal.

Commercial programs support a limited number of terminals. It is impractical for most software developers to purchase all available terminals and test installation procedures on them. This manual evolved in response to many months of attempting to obtain control code sequences for a large number of terminals to be used in the installation routine for a software system.

Manufacturers’ names were gathered from trade publications, directories, advertisements, and other sources. Most manufacturers were mailed requests for information at least six times and some as many as 27 times. A number of manufacturers consistently failed to respond and some requested that their VDTs not be listed. Some data sheets were completed by the publisher from direct observation or from third-party reports.

The results are contained in this manual, 146 VDTs and micro-computers. Some VDTs are listed more than once to reflect different configurations in different modes. Although there is a chapter on programming for VDTs, the essence of this manual is the data sheets. This manual is not intended to be a complete treatise on VDT programming, but offers a general orientation and some specific tips on programming for VDTs.

Programming for Video Display Terminals

Screen layout and nomenclature

Rows and columns

The typical video display terminal (VDT) has a screen layout consisting of 24 horizontal *rows* and 80 vertical *columns*. Other sizes are available, but less common. Other nomenclature exists for describing the rows and columns, principally *x* and *y*. The problem with using *x* and *y* is that different individuals and organizations assign different meanings to the coordinates. Some consider *x* to be a horizontal row, while others consider it to be a vertical column. For lack of more standard nomenclature, then, *rows* will be considered to run horizontally from top to bottom and *columns* vertically from left to right. See figure 1. *Line* is used interchangeably with *row* in this manual and in most VDT documentation.

Programs which use a pre-designed screen form, such as accounting programs, will find it necessary to use a standard size, such as 24×80 , even if the terminal allows more rows and columns. Word processing and text editing programs, among others, may find it desirable to utilize a terminal's larger size or different configuration (portrait rather than landscape). In this case the programmer must allow for the number of rows and columns to be a variable amount.

Numbering rows and columns

It is crucial that a standard row and column numbering scheme be followed in any programming project. Terminal manufacturers are evenly divided on whether the top row is row zero or row one, and the left column is column zero or column one. It is immaterial which scheme is used as long the programmer maintains the scheme properly. Generally, terminals which transmit cursor coordinates in single-byte binary begin numbering with zero. Terminals which transmit cursor coordinates as two- or three-byte ASCII numerals generally begin numbering with one.

It is the programmer's responsibility to determine the scheme used for all terminals on which his program might run, and to make accommodations for the various schemes with his program. This will mean that the programmer must adopt one scheme or the other—he may use either zero or one as his starting point and make the necessary adjustments for different terminals. See *Cursor addressing*.

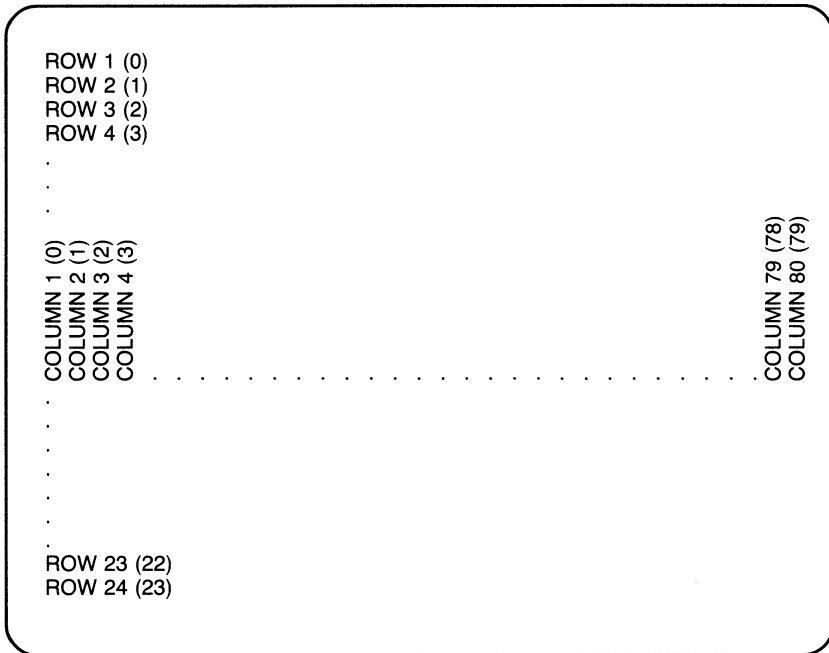


Fig. 1. Screen layout and nomenclature of a Video Display Terminal

Home

The *home* position is normally the upper left-hand corner, although on some terminals it might be some other position, frequently the lower left-hand corner. This may be switch or software selectable. When in doubt, the programmer might prefer to position the cursor explicitly using the cursor addressing sequence.

Clearing the screen

The most common erasure is clearing the screen, and almost all terminals have this function. Unfortunately, all do not accomplish it in the same manner. Some terminals position the cursor to the home position (upper left-hand corner) after clearing the screen, and some

leave the cursor at its previous position. Some terminals have no clear-screen function, but do have a clear-to-end-of-screen function.

For example, the DEC VT52 and IBM 3101 have almost identical control sequences. However, the 3101 has a clear-screen function (clear the screen and move the cursor home regardless of the original cursor position) while the VT52 does not. By using first the home sequence, then the clear-to-end-of-screen sequence, the desired effect is obtained on both terminals. This allows both terminals to use the same control code set.

Many of the manufacturers' data sheets and VDT manuals were vague on whether their clear-screen sequences left the cursor at the home position. Accordingly, it is good programming practice to always explicitly move the cursor home, either through a cursor-home or explicit move to row 1 (or zero), column 1 (or zero), then issue a clear-screen or clear-to-end-of-screen sequence.

Clearing the screen for any terminal

For terminals which have no clear-screen sequence at all, or in cases where a "standard" sequence is required (such as programs to be run before software is installed and configured for a terminal), the screen may be cleared by simply printing at least as many carriage return line feed combinations as there are rows on the terminal. On a standard-size VDT, printing 24 blank lines will effectively clear the screen. However, it also leaves the cursor at the lower left-hand corner.

Cursor addressing

The chief advantage of a VDT over a hard-copy printer is its ability to write data anywhere on the screen. To do this, a programmer must first position the cursor using the terminal's cursor addressing sequence. Cursor addressing is the programmer's chief concern in supporting a VDT, and occupies most of his time and effort in managing displays.

Cursor addressing sequences differ widely, although a few schemes will support a large number of terminals. The programmer must decide whether to use a few such schemes supporting most terminals, or to devote more programming effort and support the remaining terminals. This manual describes the cursor addressing sequences used by a number of terminals. It is the programmer's responsibility to incorporate them into his programs.

The *lead-in sequence* is the character or group of characters which tells the terminal that the following data is to be used to position the cursor. The sequence is normally one or two characters in length.

Nearly all terminals use one of two forms for transmitting row and column information. These forms have many different names, varying among manufacturers, but are standardized for this manual.

Binary form

The *binary form* means that the row or column is expressed in binary notation and transmitted as a single-byte value. This single-byte value is frequently expressed as a character. For example, row 7 expressed in binary would be the ASCII bell code. Column 65 would be the ASCII character "A."

Terminals using the binary form almost always add an *offset* to the binary number. This offset is almost always 32 (20H). This has the effect of bringing the binary value into the printing ASCII range and eliminating the transmission of the ASCII control codes (00H–1FH). See figure 2.

It is here that the scheme used for numbering rows and columns becomes critical. Most manufacturers using the binary form begin numbering rows and columns with zero, referring to rows 0–23 and columns 0–79, rather than 1–24 and 1–80. Referring to figure 2 it is obvious that adding 20H to row 0 results in 20H, the correct character to be transmitted to designate row 0. However, a large number of manufacturers, while correctly giving 20H,20H as the coordinates for the top row, left column, gave erroneous coordinates (usually 2AH,52H) for the 10th row, 50th column. Figure 2 shows that the correct coordinates are 29H,51H.

This problem is common among terminal manufacturers and programmers alike. There are well-known commercial programs which have failed to resolve this problem. If the numbering scheme begins with zero, then the 10th row is row 9, not row 10. The 50th column is column 49, not column 50. If the numbering scheme begins with one, then the 10th row is row 10, and the 50th column is column 50.

A number of manufacturers stated their numbering scheme as 1–24 and 1–80, but also stated the offset as 20H. When this was corrected and returned to them, a number of them still insisted that the correct offset was 20H. In these cases, the data sheets reflect the manufacturer's insistence although this will almost certainly result in wrong cursor addressing sequences.

Wherever possible, however, this manual attempts to use the numbering scheme 1–24 and 1–80, and adjusts the offset to 1FH. Note that adding 1FH to row 1 gives the same result as adding 20H to row 0. It allows a more standard numbering scheme to be used, however, one that is compatible with almost all terminals using the ASCII numeral form discussed below.

Most VDT manuals contain a chart showing the characters to send the terminal to represent the row or column position. Few manuals explicitly state that these characters are obtained by adding an offset to the row or column position. In almost all terminals using the binary form the upper left position is designated by sending two spaces (20H,20H). Therefore, regardless of the method the programmer uses to refer to rows and columns, he must output these two spaces to position the cursor to this position.

Shown below are the sequences necessary to position the cursor to the two positions marked in figure 2 for representative terminals.

		Teletype Series	IBM 3101 & DEC VT52
Top row, left column	ASCII	ESC = SP SP	ESC Y SP SP
	HEX	1B 3D 20 20	1B 59 20 20
10th row, 50th column	ASCII	ESC =) Q	ESC Y) Q
	HEX	1B 3D 29 51	1B 59 29 51

Note that the only difference between the terminals is the second byte of the lead-in sequence. The method of referring to row and column positions is identical. This is true of a large number of terminals—while the lead-in sequence differs, the row and column values remain identical.

The following illustrates the method of arriving at the characters to be transmitted, assuming two different numbering schemes.

	Starting at zero			Starting at one		
	Actual Value	Add Offset	Output Value	Actual Value	Add Offset	Output Value
Top row	0	20H	20H	1	1FH	20H
Left column	0	20H	20H	1	1FH	20H
10th row	9	20H	29H	10	1FH	29H
50th column	49	20H	51H	50	1FH	51H

ASCII numeral form

The other principal method of transmitting row and column values is the *ASCII numeral form*. This method is simpler to understand and easier to read, but requires substantially more programming. Using this method, the row and column values are simply converted to ASCII numerals.

Some terminals might require that two bytes be transmitted for row and two for column, while others might allow variable-length numbers. For example, row 5 would be transmitted as 05 if two bytes were required, but just 5 if variable lengths were allowed. ANSI X3.64 allows variable lengths, and many ANSI terminals allow 132 columns, so row 5 might be transmitted as 5, 05, or 005, all with the same results. It is up to the programmer which method to use. If it is easier for the programmer to transmit a variable length of bytes, he may do so. However, if he wishes to transmit a fixed number (perhaps to “fill in the blanks” in a pre-reserved string) his only penalty will be the very small amount of time necessary to transmit the longer form.

No terminals in this manual show an offset when the ASCII numeral form is used. Almost all terminals using the ASCII numeral form begin numbering with one rather than zero. Therefore the 10th row is row 10 and the 50th column is column 50.

Since the row and column values might be differing lengths, terminals using the ASCII numeral form require a *separator sequence* and an *ending sequence* to separate the values and to designate the end of the entire cursor addressing sequence. This prevents confusion with data to be displayed as text or another control sequence. These sequences are typically one byte in length.

Shown below are the sequences necessary to position the cursor to the two positions marked in figure 2 for ANSI X3.64 terminals.

Top row, left column	ASCII	ESC [1 ; 1 H
	HEX	1B 5B 31 3B 31 48
10th row, 50th column	ASCII	ESC [1 0 ; 5 0 H
	HEX	1B 5B 31 30 3B 35 30 48

It is important to note that the ANSI X3.64 sequence to home the cursor is the cursor positioning sequence with no parameters, ESC [; H. This is equivalent to ESC [0 ; 0 H, which might lead the programmer to assume that the terminal begins numbering with zero instead of one. Experimentation with this notion, however, reveals that

the sequences ESC [0 ; 0 H and ESC [1 ; 1 H are equivalent. The programmer should begin numbering with one rather than zero to avoid overlapping the first two rows.

Row or column first?

So far it has been assumed that the row is always transmitted before the column. While this is almost always the case, there are a small number of terminals that require the column value to be transmitted first, and at least one terminal series that allows either to be first (or either to be sent independently of the other). If the programmer desires to support as many terminals as possible he should allow his program to transmit either the row or column first, as required by the terminal being supported.

Delay after cursor positioning

Some terminals might require a slight delay after receiving a cursor positioning sequence in order to have time to respond and position the cursor. While most manufacturers either left this question blank or reported zero, some did specify a required delay. The programmer might wish to allow for a variable-length delay in his cursor positioning routine.

There are two basic methods of allowing this delay. The simplest is to transmit one or more nulls (00H) following the cursor positioning routine. This method has long been used following carriage returns on Teletype® and similar machines to allow time for the carriage to physically return to the left margin. Some VDTs however, might interpret these nulls as meaningful data and move the cursor or perform some other undesirable function.

The second method might be preferred if the VDT reacts unfavorably to nulls. This method requires putting the program into a “waste time loop” for a specified amount of time. This time should be variable so that the user can adjust it as necessary to fit his particular VDT, computer, modem or other communications line equipment, and other variables.

Note that even VDTs which state a required delay might not require an explicit delay routine. Quite often the time required by execution of instructions between the cursor positioning and writing of data will provide adequate delay, particularly if the program is written in a high-level language.

Scrolling

Since VDTs evolved as a direct replacement to the hard-copy Teletype[®] and similar machines, nearly all of them will scroll lines off the top as new ones are written on the bottom. This phenomenon is almost always overridden by the programmer who chooses instead to use cursor addressing sequences to write data randomly on the screen. In text editing programs the programmer allows scrolling, but rigidly controls it using the same cursor addressing sequences.

However, there is one instance in which the programmer must pay close attention to the VDT's insistent desire to scroll. When a character is printed in the last column of a row the cursor will frequently return to the following line. While this might be irritating to look at, seeing the cursor jumping around the screen, it poses no problem as long as the programmer positions the cursor before writing the next character. When that row happens to be the bottom row, however, the screen might scroll unexpectedly when the rightmost column is printed.

On some terminals this may be controlled by switch or software selection. Controlling this phenomenon might have undesirable effects, however, on the terminal's scrolling for other applications, and the user might not want to change the terminal's configuration for a single program. A better solution might be to simply *never* write to the rightmost column of the bottom row. This is relatively simple for a program using a screen form, such as accounting, but might require more care in text-editing programs.

Carriage returns

A related problem is that of carriage returns (0DH) and line feeds (0AH). When sent to the terminal, these control characters normally do just what they say. A carriage return will return the cursor to the left column and may or may not line feed. A line feed will usually move the cursor down one row, and if it is the bottom row the terminal will probably scroll.

When sending control sequences, such as cursor addressing sequences, it is important that carriage return line feed sequences *not* be sent. Assembly language programmers should have no trouble with this, but BASIC and other high-level language programmers might find themselves wondering why their data is printing on row 5 column 1 when they specifically addressed row 4 column 50. The problem is that they unknowingly sent a carriage return line feed combination following their cursor addressing sequence.

This problem is avoided in BASIC by simply putting a semicolon after the cursor addressing sequence, for example:

```
100 PRINT CHR$(27)+"="+CHR$(4+31)+CHR$(50+31);  
110 PRINT "ENTER YOUR NAME: ";  
120 INPUT N$
```

The semicolon at the end of statement 100 is frequently left out. The result is that this statement is executed, then a carriage return linefeed sequence is sent, returning the cursor to the first column of the next row. The semicolon following statement 110 would not be necessary if an additional cursor addressing sequence were transmitted prior to statement 120.

The programmer must pay close attention to maintaining the cursor position. Another frequent mistake is transmitting CHR\$(7) to ring the terminal's bell. If not followed by a semicolon (in BASIC) this single-character sequence will return the cursor to the first column of the next row, or scroll the entire screen if it is the right column of the bottom row.

Other high-level languages have similar methods of printing data without a carriage return line feed sequence.

Never hesitate to transmit the cursor addressing sequence even if you believe the cursor to be in the correct position. While the bell code (07H) should not move the cursor one space to the right, on some unusual terminals it might. Therefore, retransmitting the cursor addressing sequence following ringing the bell cannot hurt. The only penalty will be slightly larger program size and a very slight delay.

Cursor home

Most terminals have a unique *cursor home* sequence, designed to position the cursor at the top row, left column. If this sequence is not known then the programmer may simply send a cursor addressing sequence to position the cursor to row 0, column 0 or row 1, column 1, depending on his numbering scheme. Indeed, this method might be preferred, since the programmer can avoid asking the user to provide the cursor home sequence, simplifying VDT installation procedures.

Erasure

In addition to clearing the screen, a number of other erasures are permitted by many terminals. The programmer must use these erasures

carefully, however, as the results may not be what was expected. Despite attempts to standardize terminology on the data sheets, differences remain concerning erasures. For example, the data sheets contain an an erasure for the entire cursor line. Ideally, this erasure should fill the cursor line with blanks and leave the rest of the screen unchanged. Unfortunately, on some terminals this sequence might actually be a *delete line* command. This would delete the line and pull up all lines below, with disastrous effects if unexpected.

Some of the other erasures might also perform unexpectedly. The programmer might wish to use software routines to accomplish these desired erasures. For example, erase-entire-cursor-line may be performed by positioning the cursor to the left column of the line to be erased and printing a number of blanks corresponding to the width of the screen (normally 80). The programmer might also wish to allow the erase-entire-cursor-line sequence to be used optionally if the terminal supports it and it works as expected. It would be unwise, however, to assume this erasure to be standard on a large number of terminals and forego the software solution.

Video attributes

Many video display terminals and microcomputers now have *video attributes*. The most common attributes are *blinking*, *reverse video*, *underline*, *high intensity* and *half intensity*. With the exception of the standards of ANSI X3.64 terminals, there is a wide range of control code sequences used to obtain these attributes.

As with many other VDT features, there is a range of nomenclature concerning video attributes. High and half intensity, for example, mean different things to different terminal manufacturers. On some VDTs high intensity will be normal and half will be reduced, on others half will be normal and high enhanced, while still others might allow half, normal and high. Proceed with caution when using these attributes in combination.

Some terminals require a character position to be used for the attribute. To turn on blinking, for example, the character position before the blinking data is occupied by the code sequence that turns on blinking, and the character position following the blinking data is occupied by the code sequence that turns off blinking. Other terminals do not require such a character position, choosing instead to store the attribute as part of the displayed characters. This is of particular interest to the programmer. On a typical screen form used for

accounting, database, mailing list, etc., there will be pre-determined fields for the user to fill in. If these fields are to be highlighted with one or more attributes, it is relatively easy to allow the character position before and after the field for the attribute codes. In text editing applications, however, substantial problems arise. If the video attribute occupies a character position then that position appears in the middle of text as a blank. The user might be able to delete it as if it were a character, the cursor may or may not stop on it, and it is generally puzzling to the user. The programmer should therefore take great care in using video attributes, particularly in free-form screens, such as word processing or text-editing applications.

Some terminals and microcomputers, particularly those using memory-mapped video, use the high bit of each character to set the video attribute, rather than using specific code sequences before and after the highlighted data. These can cause problems for a programmer working in a high-level language, or other situations where non-ASCII characters are produced.

Cumulative attributes

In addition to the “standard” video attributes, many VDTs allow *cumulative* attributes. For example, a text-editing program might use underlining to accent a block of text. A block of text to be deleted might be in reverse video. When this underlined block is to be deleted it would then appear with underlining *and* reverse video. Another common combination is the use of reverse and blinking to flash error messages or warnings.

There are generally two ways of obtaining cumulative attributes. The simplest, although requiring more code to be transmitted, is to output the sequence for one attribute, then the sequence for the other. For example, assume ESC B turns on blinking and ESC U turns on underlining. Sending ESC B ESC U would then turn on blinking and underlining at the same time.

Not all VDTs allow such cumulative attributes, but instead have separate control sequences to turn on specific combinations. Continuing the above example, with ESC B as blinking, ESC U as underlining, blinking *and* underlining might be ESC X. ANSI X3.64 terminals allow either method (see ANSI X3.64 data sheet). Multiple attributes can be turned on one at a time until all desired attributes are in effect, or the programmer can use a specific sequence to turn on all desired attributes.

Turning off attributes

Attributes may have to be turned off individually or all at once. There may be a different code to turn off blinking, for example, than to turn off underlining. There may be one code sequence to turn off all attributes. If this is the case and blinking and underlining are both on, then this one sequence would turn both off, without allowing just one to be turned off.

Video attributes can be highly machine-specific and the programmer should give careful consideration to their use before including them in a program designed for wide distribution on a variety of VDTs.

Cursor control keys

VDT users will invariably push the “arrow” keys and expect the cursor to move. The result, unfortunately, can sometimes be disastrous. The cursor key might output a code sequence that the programmer has used for some other purpose. Many programs on the market today do not support the VDT’s cursor keys.

WordStar®, a popular word processing program, and one of the first microcomputer programs to achieve wide distribution, was designed to run on as many terminals as possible, including those without cursor keys. The programmer elected to use control codes (those ASCII codes lying between 00H and 1FH), to move the cursor. The keys selected were control-S, control-E, control-D, and control-X, chosen because they form a diamond pattern on the keyboard. These same keys were used by dBase II®, a widely-distributed database management program, and something of a standard was born. A number of VDTs now use these codes for cursor control (the “up arrow” key outputs a control-E, etc.).

Another popular configuration is the control-H, J, K, L sequence (left, down, up, right), widely used on VDTs, but not supported by many programs.

The ANSI X3.64 standard uses escape sequences rather than control codes. The Escape [precedes the cursor key sequence, as it does in all ANSI X3.64 sequences. The letters A, B, C and D follow the lead-in sequence to produce up, down, right and left, respectively. A number of other terminals use the same sequences but drop the left bracket ([).

Problems in interpreting cursor control keys

Multiple-character cursor control keys can cause problems for the programmer. Unlike cursor addressing, video attributes, etc. which are

sent by the program *to* the VDT, cursor control keys send sequences *from* the VDT *to* the computer. A VDT's job is to receive and interpret data sent by the computer, and it is capable of doing it so fast that "handshaking" is often not required. The computer must respond to the terminal's input, and in many instances, such as a multi-user or multi-tasking system, it must respond to many other devices (terminals and printers) simultaneously.

There are two general areas of concern regarding this problem. The first is with the program itself. When receiving single-byte data, such as a control-E for cursor up, there is no timing problem, as the single-byte code is no different from any other ASCII code. If the operator strikes another control-E while the program is responding to the last, the worst that can happen is that it will be ignored, losing one cursor movement.

When the cursor control key outputs more than one byte there is substantial room for error. The program must recognize the lead-in sequence, normally an escape sequence, then stand ready to respond to the following character to designate direction. If the program has recognized the lead-in but is occupied with something else when the direction byte is received, then the program fails and the result is generally that the direction byte (usually A, B, C or D) is displayed on the VDT. If the operator holds down or repeats the cursor key a similar problem will result when the programmer's input buffer overflows.

Some VDTs might send the cursor control sequences too fast for the program to respond. If the input routine is overly long and complex it might not be fast enough to recognize and respond to every byte in the cursor control sequence. Typing the sequence one byte at a time might properly move the cursor, while depressing the cursor-up key might not work because the VDT sends the bytes faster than the input routine can handle them.

The second problem area is with the operating system. Regardless of how efficient and "bullet-proof" the applications program is, it still must operate under the control of the operating system. Even "standard" operating systems, such as CP/M®, have modifications made to them by the vendor which affect input and output. A program which properly recognizes the cursor control keys without fail, under all conditions, on one computer, might not recognize the keys at all on a similar computer running the same operating system. On some systems the program will recognize the cursor control keys most of the time, but will occasionally miss one, for no apparent reason.

The programmer should use considerable care in writing input routines to accept cursor control keys and should be prepared for a flood of complaints when the keys do not function as expected.

ANSI X3.64 standard

Many current-model VDTs comply to the ANSI X3.64 standard. This is a standard published by the American National Standards Institute which describes control sequences to be used by VDTs. The standard has gained acceptance with minicomputer companies, but remains largely unsupported by microcomputer companies and programs. If a program supports this standard it should run without modification on any VDT which conforms to the standard. The complete text of the standard may be obtained from the American National Standards Institute, Inc., 1430 Broadway, New York, New York 10018.

Data Sheets

Numeric Data

Number of rows and columns (items 3 and 4), top row (item 5), and left column (item 6) are stated in decimal notation. Delay times (item 16, 18–23) are stated in decimal notation and refer to milliseconds of delay. *All other numeric values are hexadecimal.*

Code Sequences

Code sequences are displayed in two lines. The top line is the ASCII graphic character, the control sequence (caret “^” followed by character), or the two- or three-letter representation of the ASCII control characters. See Appendix 1 for ASCII character set. Codes in the range 80H–FFH are not displayed on the first line since they are outside the ASCII character set.

The second line of the code sequence display is shown in hexadecimal notation.

Manufacturer Data

1. *Manufacturer.* This is normally the actual manufacturer of the terminal or microcomputer, but it could be an OEM selling the terminal under a brand name other than the original manufacturer, or a software house selling an operating system which makes the terminal or microcomputer operate in a manner different from its original manufacturer.

2. *Terminal.* One or more terminals may be listed. Where multiple terminals are listed, all must share the code structure shown on the data sheet, although they may have differing features such as screen size and color, character generators, auxiliary ports, keyboard configuration, set-up screens, etc. Manufacturers may group terminals or list them individually. Some manufacturers submitted multiple data sheets for a single terminal, showing code structures for various emulation modes.

Screen Layout

3. *Number of rows.* Rows are horizontal rows numbered from top to bottom. This item refers to the actual number of rows available to the user, exclusive of any status lines. A number of manufacturers included the status line in this count, and many status lines are available to the user, although they normally require special addressing.

A value here of 25 should be considered with caution, since it may include a status row not accessible without special addressing. Most terminals have 24 rows, and the 25th status row cannot be addressed like the other rows.

4. *Number of columns.* Columns are vertical columns numbered from left to right. The most common number of columns is 80, although many terminals allow 132 by software or hardware selection. In most cases a terminal allowing 132 columns is an 80-column terminal by default, and requires user or program action to convert to a 132-column terminal.

5. *Top row.* Some terminals, primarily those using binary cursor addressing (item 10), start numbering from the top row with row zero. Some terminals, primarily those using the ANSI X3.64 standard cursor addressing, start numbering from the top row with row one. For this manual, wherever possible, this value has been standardized as one by adjusting the offset (item 11) to be added.

6. *Left column.* Some terminals, primarily those using the binary cursor addressing form (item 10), start numbering from the left column with column zero. Some terminals, primarily those using the ANSI X3.64 standard cursor addressing form, start numbering from the left column with column one. For this manual, wherever possible, this value has been standardized as one by adjusting the offset (item 11) to be added.

7. *Printing in bottom right cause scroll?* When a character is printed in the rightmost column of the bottom row (normally row 24, column 80), some terminals will cause the screen to scroll. The top row will be lost and a blank row will be inserted as the bottom row. On some terminals, this does not occur—the screen remains the same. On some terminals this is controlled by switch or software selection. In this case this item is PROG or programmable. Many manufacturers left this item blank or did not understand the item. It is therefore good programming practice to consider that all terminals will scroll when the rightmost column of the bottom row is printed.

Cursor addressing

8. *Lead-in sequence.* This is the sequence of code that precedes the row and column values necessary to position the cursor. This is frequently an escape sequence.

9. *Row or column first.* Most terminals send the row value first, although some send column value first. A small number of terminals allow either to be sent first due to their unique addressing scheme. These terminals have expanded cursor addressing discussion in Notes.

10. *Numeric form of row and column.* The most common forms are binary and variable-length ASCII. Also acceptable are 2-byte ASCII and 3-byte ASCII. Binary means that the row and column values are converted into binary form, frequently with an added offset (item 11), and transmitted as a single byte of binary data. ASCII form means that the row and column values are converted into ASCII numerals. ANSI standard terminals allow one, two or three ASCII digits to be sent. Leading zeros are optional. Some terminals might require that two or three ASCII digits be sent, in which case the leading zeros would be required.

11. *Add offset to.* This value is almost always the same for both row and column, although some terminals have unusual cursor addressing schemes. This is an amount which is added to the row or column value before being transmitted. It is almost always added on terminals using binary form and no terminal in this manual uses an offset for ASCII form.

The most common offset is 20H (for terminals that start row and column numbering with zero), although to maintain consistency, this has been adjusted to 1FH, resulting in 20H as the binary value transmitted to position the cursor at the top row and left column. Note that this brings all row and column values into the printing ASCII character range, avoiding problems of transmitting control characters which might cause unexpected results particularly when communicating over a modem or other communications link.

12. *Separator sequence.* This is the sequence which separates row and column values. When using binary form for row and column values, this is not necessary and normally not used since the values occupy one byte each. In variable-length ASCII form, however, row and column values may occupy from one to three bytes each and it is necessary to separate them.

13. *End sequence.* This is necessary for variable-length ASCII form to distinguish the row and column values from text.

14. *Cursor to top row, left column.* This is a sample cursor addressing sequence showing how the elements are combined to actually position the cursor. The top row, left column are used here to further verify what notation the manufacturer uses to number rows and columns. In binary form, the most common values for this sequence are 20H for both row and column. For ANSI X3.64 terminals and most other terminals using ASCII form, the most common values here are one for both row and column.

15. *Cursor to 10th row, 50th column.* This is another example designed to further verify the row and column numbering scheme. A large number of manufacturers reported erroneous values here, although their manuals showed the correct values. Many programmers fall into the same trap.

The 10th row is row 10 only if the top row is row one. The 10th row is row nine if the top row is row zero.

The 50th column is column 50 only if the left column is column one. The 50th column is column 49 if the left column is column zero.

This is discussed in more detail in the cursor positioning discussion elsewhere in this manual.

16. *Delay after positioning.* Some terminals require time to interpret the sequence and position the cursor following a cursor positioning sequence. This is stated here in milliseconds of delay. Most manufacturers left this blank or reported zero, although a few reported a delay time.

17. *Cursor home.* Most terminals have a sequence which will position the cursor to the home position. On terminals not having such a sequence, the sequence in item 14 will accomplish the same thing. Some terminals might allow “home” to be defined as somewhere other than the upper left corner.

Erasure

18. *Entire screen.* Some terminals clear the entire screen and home the cursor. Some clear the screen and leave the cursor where it was. Some terminals have only the capability to clear to end of screen, in which case this sequence might be a combination of cursor home and clear-to-end-of-screen.

19. *Cursor to end of screen.* This sequence clears from the cursor to the end of screen without moving the cursor.

20. *Beginning of screen to cursor.* This sequence clears from the beginning of the screen to the cursor without moving the cursor.

21. *Cursor to end of line.* This sequence clears from the cursor to the end of line (row) without moving the cursor.

22. *Beginning of line to cursor.* This sequence clears from the beginning of the line (row) to the cursor without moving the cursor.

23. *Entire cursor line.* This sequence clears the entire line (row) on which the cursor is located. As in clear screen, the cursor may or may not move to the beginning of the line (row). Some terminals do not have this function, and may accomplish it with a carriage return (without a line feed), then clear to end of line.

Note that this sequence is *not* the same as delete line. A delete line normally deletes the cursor line, then pulls up lines below the cursor to fill in the deleted line. The clear-cursor-line should erase the line and leave a blank line.

Delay. The required delay, in milliseconds, is shown for the selected erasure. This is the time the host should wait after the erasure before sending additional data or commands.

Video Attributes

24.–28. These are the sequences to turn on the specified attribute and to turn it off (or return to normal video). The off sequence is frequently the same for all attributes, and will usually be the same as item 31.

29. *Attributes occupy position.* On some terminals video attributes will occupy a character position to the exclusion of other data. These terminals require the programmer to allow for a blank character before and after the highlighted text.

30. *Attributes cumulative.* Many terminals allow multiple attributes to be in effect at one time. The simplest way to accomplish this, although requiring longer strings of code, is to turn on one attribute, then turn on another. For example, if ESC B turns on blinking and ESC U turns on underlining, then ESC B ESC U would turn on blinking and underlining at the same time. This concept works on ANSI X3.64 terminals although there is a shorter notation used.

Many terminals have completely separate codes for turning on multiple attributes. These are listed in Notes when provided.

31. *All attributes off.* This turns off all video attributes and returns to normal video.

Cursor Control (Arrow) Keys

32. *Cursor up.* The code sequence generated by the terminal and sent to the host when the Cursor Up (Up Arrow) key is depressed. This

same sequence sent by the host to the terminal will normally result in movement of the cursor up one row.

33. *Cursor down.* The code sequence generated by the terminal and sent to the host when the Cursor Down (Down Arrow) key is depressed. This same sequence sent by the host to the terminal will normally result in movement of the cursor down one row.

34. *Cursor right.* The code sequence generated by the terminal and sent to the host when the Cursor Right (Right Arrow) key is depressed. This same sequence sent by the host to the terminal will normally result in movement of the cursor right one column.

35. *Cursor left.* The code sequence generated by the terminal and sent to the host when the Cursor Left (Left Arrow) key is depressed. This same sequence sent by the host to the terminal will normally result in movement of the cursor left one column.

Character Set

36. *Full upper and lower ASCII.* Some terminals do not display the entire ASCII character set. If the answer to this item is NO, then exceptions should be listed in Notes.

37. *Generate all control codes.* Some terminals are not capable of generating all ASCII control codes (01H–1FH). If the answer to this item is NO, then exceptions should be listed in Notes.

38. *Bell or tone sequence.* Nearly all terminals produce a bell or electronic tone on receipt of a BEL (07H) code from the host. If the terminal recognizes a different sequence it is shown here.

Emulation

39. *Conform to ANSI X3.64?* If the terminal conforms to the ANSI X3.64 standard, the answer to this item should be YES. Note that many terminals have multiple modes, one of which might be ANSI X3.64. A manufacturer might answer YES to this item although the codes shown are not ANSI X3.64 compliant. In this case it is assumed that the ANSI mode is used to obtain ANSI X3.64-compliant operation.

40. *Terminals emulated.* Some terminals have a “native” mode in addition to emulating other terminals. Some terminals have no native mode and *must* emulate another terminal. Generally, the listed terminals emulated are in addition to the control codes shown on the data sheet.

41. *Information provided by.* If the manufacturer provided the information and/or approved the proofs, the information was provided by the MANUFACTURER. If the publisher obtained the information without the aid of the manufacturer the information was provided by the PUBLISHER. In the case of a dealer or user other than the publisher, the information was provided by a THIRD PARTY. OEMs selling terminals under private label are considered to be the MANUFACTURER. Software houses providing operating systems (such as CP/M® for the TRS-80®) are considered to be the MANUFACTURER of the software, but not the terminal or microcomputer.

42. *Program Function Keys.* Some terminals have program function keys which generate one or more characters. The codes produced by these keys are shown. Some terminals have programmable function keys which may be programmed by the user. If these keys have default or standard sequences, these are shown, although they may be changed by the user. There is space for only 16 keys, since this covers most terminals. Some terminals allow more function keys and these are usually described in Notes.

Notes

A numbered note refers to the item of the same number. For example, on many terminals which allow 80 or 132 columns, item 4 has a value of 80 and Note 4 mentions that 132 is optional. An unnumbered note is of general interest. Every effort was made to accommodate all terminal features within strict guidelines, but many terminals required additional explanation.

1. Manufacturer:	Altos Computer Systems
2. Terminal:	Altos II Terminal

SCREEN LAYOUT

3. Number of rows: 25
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right
 cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0
 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48
 14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

DELAY

18. Entire screen: ESC [2 J 0
 1B 5B 32 4A
 19. Cursor to end of screen: ESC [0 J 0
 1B 5B 30 4A
 20. Beginning of screen to cursor: ESC [1 J 0
 1B 5B 31 4A
 21. Cursor to end of line: ESC [0 K 0
 1B 5B 30 4B
 22. Beginning of line to cursor: ESC [1 K 0
 1B 5B 31 4B
 23. Entire cursor line: ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking: ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video: ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline: ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity: ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D
 28. Half intensity:
 29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up: ESC [A
 1B 5B 41
 33. Cursor down: ESC [B
 1B 5B 42
 34. Cursor right: ESC [C
 1B 5B 43
 35. Cursor left: ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:

Manufacturer:

Altos Computer Systems

Terminal:

Altos II Terminal

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

3. Optionally 40.

4. Optionally 132.

42. 16/32 programmable function keys.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Ann Arbor Terminals		
2. Terminal:	Ambassador		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	60	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC [5 m	ESC [m
6. Left Column:	1	1B 5B 35 6D	1B 5B 6D
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
ESC [		1B 5B 34 6D	1B 5B 6D
1B 5B		27. High intensity:	
9. Row or column first:	ROW	ESC [1 m	ESC [m
10. Numeric form of row and column:		1B 5B 31 6D	1B 5B 6D
VARIABLE-LENGTH ASCII		28. Half intensity:	
11. Add offset to:	Row: 0 Col: 0		
12. Separator sequence:		29. Attributes occupy position:	NO
;		30. Attributes cumulative:	YES
3B		31. All attributes off:	
13. End sequence:		ESC [m	
H		1B 5B 6D	
48			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC [1 ; 1 H		32. Cursor up:	
1B 5B 31 3B 31 48		ESC [A	
15. 10th Row, 50th Column:		1B 5B 41	
ESC [1 0 ; 5 0 H		33. Cursor down:	
1B 5B 31 30 3B 35 30 48		ESC [B	
16. Delay after positioning:	0	1B 5B 42	
17. Cursor home:		34. Cursor right:	
ESC [H		ESC [C	
1B 5B 48		1B 5B 43	
		35. Cursor left:	
ERASURE	DELAY	ESC [D	
18. Entire screen:		1B 5B 44	
ESC [2 J	156		
1B 5B 32 4A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC [0 J	0	37. Generate all control codes:	YES
1B 5B 30 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
ESC [1 J	0	07	
1B 5B 31 4A			
21. Cursor to end of line:		EMULATION	
ESC [0 K	0	39. Conform to ANSI X3.64?	YES
1B 5B 30 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:			
ESC [1 K	0		
1B 5B 31 4B			
23. Entire cursor line:			
ESC [2 K	5		
1B 5B 32 4B			

Manufacturer:
Terminal:

Ann Arbor Terminals
Ambassador

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

30. Blinking and reverse video:
ESC [5 ; 7 m

2.

36. DEC mode option gives graphics
symbols.

3.

42. 12 programmable function keys.
Total of 36 keys on 60 levels
are user-programmable.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Ann Arbor Terminals		
2. Terminal:	Genie		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	30	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC [5 m	ESC [m
6. Left Column:	1	1B 5B 35 6D	1B 5B 6D
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
	ESC [	1B 5B 34 6D	1B 5B 6D
	1B 5B	27. High intensity:	
9. Row or column first:	ROW	ESC [1 m	ESC [m
10. Numeric form of row and column:		1B 5B 31 6D	1B 5B 6D
	VARIABLE-LENGTH ASCII	28. Half intensity:	
11. Add offset to:	Row: 0		
	Col: 0		
12. Separator sequence:		29. Attributes occupy position:	NO
	;	30. Attributes cumulative:	YES
	3B	31. All attributes off:	
13. End sequence:		ESC [m	
	H	1B 5B 6D	
	48		
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC [1 ; 1 H		32. Cursor up:	
1B 5B 31 3B 31 48		ESC [A	
		1B 5B 41	
15. 10th Row, 50th Column:		33. Cursor down:	
ESC [1 0 ; 5 0 H		ESC [B	
1B 5B 31 30 3B 35 30 48		1B 5B 42	
16. Delay after positioning:	0	34. Cursor right:	
17. Cursor home:		ESC [C	
	ESC [H	1B 5B 43	
	1B 5B 48	35. Cursor left:	
		ESC [D	
		1B 5B 44	
ERASURE		CHARACTER SET	
18. Entire screen:	DELAY	36. Full upper and lower ASCII:	YES
ESC [2 J	156	37. Generate all control codes:	YES
1B 5B 32 4A		38. Bell or tone sequence:	
19. Cursor to end of screen:		^G	
ESC [0 J	0	07	
1B 5B 30 4A			
20. Beginning of screen to cursor:		EMULATION	
ESC [1 J	0	39. Conform to ANSI X3.64?	YES
1B 5B 31 4A		40. Terminals Emulated:	
21. Cursor to end of line:			
ESC [0 K	0		
1B 5B 30 4B			
22. Beginning of line to cursor:			
ESC [1 K	0		
1B 5B 31 4B			
23. Entire cursor line:			
ESC [2 K	5		
1B 5B 32 4B			

Manufacturer:
Terminal:

Ann Arbor Terminals
Genie

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|---|
| 1. | 30. Blinking and reverse video:
ESC [5 ; 7 m |
| 2. | 36. DEC mode option gives graphics
symbols. |
| 3. | 42. 12 programmable function keys.
Total of 26 keys on 36 levels
are user-programmable. |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |

1. Manufacturer:	Ann Arbor Terminals		
2. Terminal:	Genie+Plus		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	60	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC [5 m	ESC [m
6. Left Column:	1	1B 5B 35 6D	1B 5B 6D
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
		1B 5B 34 6D	1B 5B 6D
		27. High intensity:	
9. Row or column first:	ROW	ESC [1 m	ESC [m
10. Numeric form of row and column:		1B 5B 31 6D	1B 5B 6D
		28. Half intensity:	
11. Add offset to:	Row: 0 Col: 0		
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	YES
		31. All attributes off:	
13. End sequence:		ESC [m	
		1B 5B 6D	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC [1 ; 1 H		32. Cursor up:	
1B 5B 31 3B 31 48		ESC [A	
		1B 5B 41	
15. 10th Row, 50th Column:		33. Cursor down:	
ESC [1 0 ; 5 0 H		ESC [B	
1B 5B 31 30 3B 35 30 48		1B 5B 42	
16. Delay after positioning:	0	34. Cursor right:	
17. Cursor home:		ESC [C	
		1B 5B 43	
		35. Cursor left:	
		ESC [D	
		1B 5B 44	
ERASURE		CHARACTER SET	
18. Entire screen:	DELAY	36. Full upper and lower ASCII:	YES
ESC [2 J	156	37. Generate all control codes:	YES
1B 5B 32 4A		38. Bell or tone sequence:	
19. Cursor to end of screen:		^G	
ESC [0 J	0	07	
1B 5B 30 4A			
20. Beginning of screen to cursor:		EMULATION	
ESC [1 J	0	39. Conform to ANSI X3.64?	YES
1B 5B 31 4A		40. Terminals Emulated:	
21. Cursor to end of line:			
ESC [0 K	0		
1B 5B 30 4B			
22. Beginning of line to cursor:			
ESC [1 K	0		
1B 5B 31 4B			
23. Entire cursor line:			
ESC [2 K	5		
1B 5B 32 4B			

Manufacturer:
Terminal:

Ann Arbor Terminals
Genie+Plus

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|---|
| 1. | 30. Blinking and reverse video:
ESC [5 ; 7 m |
| 2. | 36. DEC mode option gives graphics
symbols. |
| 3. | 42. 12 programmable function keys.
Total of 36 keys on 60 levels
are user-programmable. |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |

1. Manufacturer:	Ann Arbor Terminals		
2. Terminal:	Guru (TM)		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	66	24. Blinking:	ON OFF
4. Number of columns:	170	ESC [5 m	ESC [m
5. Top Row:	1	1B 5B 35 6D	1B 5B 6D
6. Left Column:	1	25. Reverse video:	
7. Printing in bottom right cause scroll?	PROG	ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
		1B 5B 34 6D	1B 5B 6D
		27. High intensity:	
9. Row or column first:	ROW	ESC [1 m	ESC [m
10. Numeric form of row and column:		1B 5B 31 6D	1B 5B 6D
		28. Half intensity:	
11. Add offset to:	Row: 0 Col: 0	29. Attributes occupy position:	NO
12. Separator sequence:		30. Attributes cumulative:	YES
		31. All attributes off:	
		ESC [m	
		1B 5B 6D	
13. End sequence:		CURSOR CONTROL KEYS	
		32. Cursor up:	
		ESC [A	
		1B 5B 41	
14. Cursor to top row, left column:		33. Cursor down:	
ESC [1 ; 1 H		ESC [B	
1B 5B 31 3B 31 48		1B 5B 42	
15. 10th Row, 50th Column:		34. Cursor right:	
ESC [1 0 ; 5 0 H		ESC [C	
1B 5B 31 30 3B 35 30 48		1B 5B 43	
16. Delay after positioning:	0	35. Cursor left:	
17. Cursor home:		ESC [D	
		1B 5B 44	
ERASURE		CHARACTER SET	
18. Entire screen:	DELAY	36. Full upper and lower ASCII:	YES
ESC [2 J	210	37. Generate all control codes:	YES
1B 5B 32 4A		38. Bell or tone sequence:	
19. Cursor to end of screen:		^G	
ESC [0 J	0	07	
1B 5B 30 4A			
20. Beginning of screen to cursor:		EMULATION	
ESC [1 J	0	39. Conform to ANSI X3.64?	YES
1B 5B 31 4A		40. Terminals Emulated:	
21. Cursor to end of line:			
ESC [0 K	0		
1B 5B 30 4B			
22. Beginning of line to cursor:			
ESC [1 K	0		
1B 5B 31 4B			
23. Entire cursor line:			
ESC [2 K	6		
1B 5B 32 4B			

Manufacturer:
Terminal:

Ann Arbor Terminals
Guru (TM)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- 1.
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
 - 7.
 - 8.
 - 9.
 - 10.
 - 11.
 - 12.
 - 13.
 - 14.
 - 15.
 - 16.
30. Blinking and reverse video:
ESC [5 ; 7 m
 36. DEC mode option gives graphics
symbols.
 42. 12 programmable function keys.
Total of 36 keys on 60 levels
are user-programmable.

1. Manufacturer:	ANSI
2. Terminal:	ANSI

SCREEN LAYOUT

3. Number of rows:	24
4. Number of columns:	80
5. Top Row:	1
6. Left Column:	1
7. Printing in bottom right cause scroll?	PROG

CURSOR ADDRESSING

8. Lead-in sequence:	
ESC [	
1B 5B	
9. Row or column first:	ROW
10. Numeric form of row and column:	
VARIABLE-LENGTH ASCII	
11. Add offset to:	Row: 0
	Col: 0

12. Separator sequence:

;

3B

13. End sequence:

H

48

14. Cursor to top row, left column:

ESC [1 ; 1 H

1B 5B 31 3B 31 48

15. 10th Row, 50th Column:

ESC [1 0 ; 5 0 H

1B 5B 31 30 3B 35 30 48

16. Delay after positioning: 0

17. Cursor home:

ESC [H

1B 5B 48

ERASURE

DELAY

18. Entire screen:

ESC [2 J

1B 5B 32 4A

19. Cursor to end of screen:

ESC [J

1B 5B 4A

20. Beginning of screen to cursor:

ESC [1 J

1B 5B 31 4A

21. Cursor to end of line:

ESC [K

1B 5B 4B

22. Beginning of line to cursor:

ESC [1 K

1B 5B 31 4B

23. Entire cursor line:

ESC [2 K

1B 5B 32 4B

VIDEO ATTRIBUTES

ON

OFF

24. Blinking:

ESC [5 m

ESC [m

1B 5B 35 6D

1B 5B 6D

25. Reverse video:

ESC [7 m

ESC [m

1B 5B 37 6D

1B 5B 6D

26. Underline:

ESC [4 m

ESC [m

1B 5B 34 6D

1B 5B 6D

27. High intensity:

ESC [1 m

ESC [m

1B 5B 31 6D

1B 5B 6D

28. Half intensity:

29. Attributes occupy position: NO

30. Attributes cumulative: YES

31. All attributes off:

ESC [m

1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:

ESC [A

1B 5B 41

33. Cursor down:

ESC [B

1B 5B 42

34. Cursor right:

ESC [C

1B 5B 43

35. Cursor left:

ESC [D

1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES

37. Generate all control codes: YES

38. Bell or tone sequence:

^G

07

EMULATION

39. Conform to ANSI X3.64? YES

40. Terminals Emulated:

Manufacturer:	ANSI
Terminal:	ANSI

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Beehive International
2. Terminal:	ATL 008
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC [5 m ESC [m
6. Left Column: 1	1B 5B 35 6D 1B 5B 6D
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
	ESC [7 m ESC [m
	1B 5B 37 6D 1B 5B 6D
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC [4 m ESC [m
ESC [1B 5B	1B 5B 34 6D 1B 5B 6D
9. Row or column first: ROW	27. High intensity:
10. Numeric form of row and column: VARIABLE-LENGTH ASCII	ESC [1 m ESC [m
11. Add offset to: Row: 0	1B 5B 31 6D 1B 5B 6D
Col: 0	28. Half intensity:
12. Separator sequence:	ESC [2 m ESC [m
; 3B	1B 5B 32 6D 1B 5B 6D
13. End sequence:	29. Attributes occupy position: NO
H 48	30. Attributes cumulative: YES
14. Cursor to top row, left column:	31. All attributes off:
ESC [1 ; 1 H	ESC [m
1B 5B 31 3B 31 48	1B 5B 6D
15. 10th Row, 50th Column:	CURSOR CONTROL KEYS
ESC [1 0 ; 5 0 H	32. Cursor up:
1B 5B 31 30 3B 35 30 48	ESC [A
16. Delay after positioning: 0	1B 5B 41
17. Cursor home:	33. Cursor down:
ESC [H	ESC [B
1B 5B 48	1B 5B 42
ERASURE DELAY	34. Cursor right:
18. Entire screen:	ESC [C
ESC [2 J 0	1B 5B 43
1B 5B 32 4A	35. Cursor left:
19. Cursor to end of screen:	ESC [D
ESC [J 0	1B 5B 44
1B 5B 4A	CHARACTER SET
20. Beginning of screen to cursor:	36. Full upper and lower ASCII: YES
ESC [1 J 0	37. Generate all control codes: YES
1B 5B 31 4A	38. Bell or tone sequence:
21. Cursor to end of line:	^G 07
ESC [K 0	EMULATION
1B 5B 4B	39. Conform to ANSI X3.64? YES
22. Beginning of line to cursor:	40. Terminals Emulated:
ESC [1 K 0	DEC VT100
1B 5B 31 4B	DEC VT52 (as a subset of VT100)
23. Entire cursor line:	
ESC [2 K 0	
1B 5B 32 4B	

Manufacturer:
Terminal:

Beehive International
ATL 008

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. P P ESC \
50 50 1B 5C
2. P Q ESC \
50 51 1B 5C
3. P R ESC \
50 52 1B 5C
4. P S ESC \
50 53 1B 5C
5. P T ESC \
50 54 1B 5C
6. P U ESC \
50 55 1B 5C
7. P V ESC \
50 56 1B 5C
8. P W ESC \
50 57 1B 5C
9. P X ESC \
50 58 1B 5C
10. P Y ESC \
50 59 1B 5C
11. P Z ESC \
50 5A 1B 5C
12. P [ESC \
50 5B 1B 5C
13. P \ ESC \
50 5C 1B 5C
14. P] ESC \
50 5D 1B 5C
15. P ^ ESC \
50 5E 1B 5C
16. P _ ESC \
50 5F 1B 5C

NOTES

4. Optionally 132.
30. Also ESC [5 ; 7 m.
42. All function keys are preceded by a control string, which can be ANSI strings of APC, OSC, PM, DCS and SS3..

1. Manufacturer:		Beehive International	
2. Terminal:		ATL 083	
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	0	ESC ^X	ESC ^^
6. Left Column:	0	1B 18	1B 1E
7. Printing in bottom right cause scroll?	NO	25. Reverse video:	
		ESC ^N	ESC ^^
		1B 0E	1B 1E
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC ^O	ESC ^S
ESC "		1B 0F	1B 13
1B 22		27. High intensity:	
9. Row or column first:	COL	ESC ^Z	ESC ^^
10. Numeric form of row and column:		1B 1A	1B 1E
BINARY		28. Half intensity:	
11. Add offset to:	Row: 20 Col: 20		
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	YES
13. End sequence:		31. All attributes off:	
		ESC ^^	
		1B 1E	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC " SP SP		32. Cursor up:	
1B 22 20 20		ESC f	
15. 10th Row, 50th Column:		1B 66	
ESC " Q)		33. Cursor down:	
1B 22 51 29		ESC i	
16. Delay after positioning:	0	1B 69	
17. Cursor home:		34. Cursor right:	
ESC e		ESC h	
1B 65		1B 68	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	ESC g	
ESC o	0	1B 67	
1B 6F		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J	0	37. Generate all control codes:	YES
1B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		ESC ?	
		1B 3F	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:		TD 830	
ESC D ESC K	0	MT 983	
1B 44 1B 4B			
23. Entire cursor line:			
ESC M	0		
1B 4D			

Manufacturer:
Terminal:

Beehive International
ATL 083

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. Programmable function keys.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Beehive International
2. Terminal:		ATL-004

SCREEN LAYOUT		VIDEO ATTRIBUTES
3. Number of rows:	24	ON OFF
4. Number of columns:	80	24. Blinking:
5. Top Row:	0	ESC d B ESC d @
6. Left Column:	0	1B 64 42 1B 64 40
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:
		ESC d P ESC d @
		1B 64 50 1B 64 40
CURSOR ADDRESSING		26. Underline:
8. Lead-in sequence:		ESC d ` ESC d @
	ESC F	1B 64 60 1B 64 40
	1B 46	27. High intensity:
9. Row or column first:	ROW	
10. Numeric form of row and column:	BINARY	28. Half intensity:
11. Add offset to:	Row: 20	ESC d A ESC d @
	Col: 20	1B 64 41 1B 64 40
12. Separator sequence:		29. Attributes occupy position: NO
		30. Attributes cumulative: NO
13. End sequence:		31. All attributes off:
		ESC d @
		1B 64 40
14. Cursor to top row, left column:		CURSOR CONTROL KEYS
ESC F SP SP		32. Cursor up:
1B 46 20 20		ESC A
15. 10th Row, 50th Column:		1B 41
ESC F) Q		33. Cursor down:
1B 46 29 51		ESC B
16. Delay after positioning:	0	1B 42
17. Cursor home:		34. Cursor right:
ESC H		ESC C
1B 48		1B 43
ERASURE	DELAY	35. Cursor left:
18. Entire screen:		ESC D
ESC E	0	1B 44
1B 45		CHARACTER SET
19. Cursor to end of screen:		36. Full upper and lower ASCII: YES
ESC J	0	37. Generate all control codes: YES
1B 4A		38. Bell or tone sequence:
20. Beginning of screen to cursor:		^G
		07
21. Cursor to end of line:		EMULATION
ESC K	0	39. Conform to ANSI X3.64? NO
1B 4B		40. Terminals Emulated:
22. Beginning of line to cursor:		DEC VT100
23. Entire cursor line:		

Manufacturer:
Terminal:

Beehive International
ATL-004

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^B ESC p
02 1B 70
2. ^B ESC q
02 1B 71
3. ^B ESC r
02 1B 72
4. ^B ESC s
02 1B 73
5. ^B ESC t
02 1B 74
6. ^B ESC u
02 1B 75
7. ^B ESC v
02 1B 76
8. ^B ESC w
02 1B 77
9. ^B ESC x
02 1B 78
10. ^B ESC y
02 1B 79
11. ^B ESC z
02 1B 7A
12. ^B ESC {
02 1B 7B
13. ^B ESC |
02 1B 7C
14. ^B ESC }
02 1B 7D
15. ^B ESC ~
02 1B 7E
16. ^B ESC DEL
02 1B 7F

NOTES

2. Dependent upon destructive scroll setting.
30. Alternate sequences provide combinations.
31. 512 characters including line graphics, foreign characters, icons, and math symbols.
42. STX sequence is programmable up to 16 characters.
Termination sequence is programmable up to 16 characters OR
Entire key is programmable up to 16 characters.

1. Manufacturer:	Beehive International
2. Terminal:	ATL-078
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC d B ESC d @
6. Left Column: 1	1B 64 42 1B 64 40
7. Printing in bottom right cause scroll? NO	25. Reverse video:
	ESC d P ESC d @
	1B 64 50 1B 64 40
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC d ` ESC d @
ESC F	1B 64 60 1B 64 40
1B 46	27. High intensity:
9. Row or column first: ROW	
10. Numeric form of row and column: BINARY	28. Half intensity:
11. Add offset to: Row: 1F	ESC d A ESC d @
Col: 1F	1B 64 41 1B 64 40
12. Separator sequence:	29. Attributes occupy position: NO
	30. Attributes cumulative: NO
	31. All attributes off:
13. End sequence:	ESC d @
	1B 64 40
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC F SP SP	32. Cursor up:
1B 46 20 20	ESC A
15. 10th Row, 50th Column:	1B 41
ESC F) Q	33. Cursor down:
1B 46 29 51	ESC B
16. Delay after positioning: 0	1B 42
17. Cursor home:	34. Cursor right:
ESC H	ESC C
1B 48	1B 43
ERASURE DELAY	35. Cursor left:
18. Entire screen:	ESC D
ESC E	1B 44
1B 45	
19. Cursor to end of screen:	CHARACTER SET
ESC J	36. Full upper and lower ASCII: YES
1B 4A	37. Generate all control codes: YES
20. Beginning of screen to cursor:	38. Bell or tone sequence:
	^G
	07
21. Cursor to end of line:	EMULATION
ESC K	39. Conform to ANSI X3.64? NO
1B 4B	40. Terminals Emulated:
22. Beginning of line to cursor:	
23. Entire cursor line:	

Manufacturer:
Terminal:

Beehive International
ATL-078

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^B ESC p
02 1B 70

2. ^B ESC q
02 1B 71

3. ^B ESC r
02 1B 72

4. ^B ESC s
02 1B 73

5. ^B ESC t
02 1B 74

6. ^B ESC u
02 1B 75

7. ^B ESC v
02 1B 76

8. ^B ESC w
02 1B 77

9. ^B ESC x
02 1B 78

10. ^B ESC y
02 1B 79

11. ^B ESC z
02 1B 7A

12. ^B ESC {
02 1B 7B

13. ^B ESC |
02 1B 7C

14. ^B ESC }
02 1B 7D

15. ^B ESC ~
02 1B 7E

16. ^B ESC DEL
02 1B 7F

NOTES

2. Dependent upon destructive scroll setting.

30. Alternate sequences provide combinations.

42. All function keys require termination sequence, which is switch selectable between CR; CRLF; EOT; and ETX.

1. Manufacturer:	Beehive International		
2. Terminal:	DMSB (Standard)		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	0	ESC d B	ESC d @
6. Left Column:	0	1B 64 42	1B 64 40
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC d P	ESC d @
		1B 64 50	1B 64 40
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC d ~	ESC d @
	ESC F	1B 64 60	1B 64 40
	1B 46	27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:	BINARY	28. Half intensity:	
11. Add offset to:	Row: 20	ESC d A	ESC d @
	Col: 20	1B 64 41	1B 64 40
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC d @	
		1B 64 40	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC F SP SP		32. Cursor up:	
1B 46 20 20		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC F) Q		33. Cursor down:	
1B 46 29 51		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	ESC D	
ESC E	0	1B 44	
1B 45		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J	0	37. Generate all control codes:	YES
1B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Beehive International
DMSB (Standard)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^B ESC p
02 1B 70
2. ^B ESC q
02 1B 71
3. ^B ESC r
02 1B 72
4. ^B ESC s
02 1B 73
5. ^B ESC t
02 1B 74
6. ^B ESC u
02 1B 75
7. ^B ESC v
02 1B 76
8. ^B ESC w
02 1B 77
9. ^B ESC x
02 1B 78
10. ^B ESC y
02 1B 79
11. ^B ESC z
02 1B 7A
12. ^B ESC {
02 1B 7B
13. ^B ESC |
02 1B 7C
14. ^B ESC }
02 1B 7D
15. ^B ESC ~
02 1B 7E
16. ^B ESC DEL
02 1B 7F

NOTES

2. Dependent upon destructive scroll setting.
30. Alternate sequences provide combinations.
42. All function keys require termination sequence, which is switch selectable between CR; CRLF; EOT; and ETX.

1. Manufacturer:	Beehive International		
2. Terminal:	DMSC (Basic)		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	0	ESC d B	ESC d @
6. Left Column:	0	1B 64 42	1B 64 40
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC d P	ESC d @
		1B 64 50	1B 64 40
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC d `	ESC d @
ESC F		1B 64 60	1B 64 40
1B 46		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC d A	ESC d @
11. Add offset to:	Row: 20	1B 64 41	1B 64 40
	Col: 20	29. Attributes occupy position:	NO
12. Separator sequence:		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC d @	
		1B 64 40	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC F SP SP		32. Cursor up:	
1B 46 20 20		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC F) Q		33. Cursor down:	
1B 46 29 51		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	ESC D	
ESC E		1B 44	
1B 45	0	CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J		37. Generate all control codes:	YES
1B 4A	0	38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K		39. Conform to ANSI X3.64?	NO
1B 4B	0	40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Beehive International
DMSC (Basic)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^B ESC p
02 1B 70
2. ^B ESC q
02 1B 71
3. ^B ESC r
02 1B 72
4. ^B ESC s
02 1B 73
5. ^B ESC t
02 1B 74
6. ^B ESC u
02 1B 75
7. ^B ESC v
02 1B 76
8. ^B ESC w
02 1B 77
9. ^B ESC x
02 1B 78
10. ^B ESC y
02 1B 79
11. ^B ESC z
02 1B 7A
12. ^B ESC {
02 1B 7B
13. ^B ESC |
02 1B 7C
14. ^B ESC }
02 1B 7D
15. ^B ESC ~
02 1B 7E
16. ^B ESC DEL
02 1B 7F

NOTES

2. Dependent upon destructive scroll setting.
30. Alternate sequences provide combinations.
42. All function keys require termination sequence, which is switch selectable between CR; CRLF; EOT; and ETX.

1. Manufacturer:	Beehive International		
2. Terminal:	DMSD (Plus)		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	0	ESC d B	ESC d @
6. Left Column:	0	1B 64 42	1B 64 40
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC d P	ESC d @
		1B 64 50	1B 64 40
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC d	ESC d @
ESC F		1B 64 60	1B 64 40
1B 46		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC d A	ESC d @
11. Add offset to:	Row: 20	1B 64 41	1B 64 40
	Col: 20	29. Attributes occupy position:	NO
12. Separator sequence:		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC d @	
		1B 64 40	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC F SP SP		32. Cursor up:	
1B 46 20 20		ESC A	
		1B 41	
15. 10th Row, 50th Column:		33. Cursor down:	
ESC F) Q		ESC B	
1B 46 29 51		1B 42	
16. Delay after positioning:	0	34. Cursor right:	
17. Cursor home:		ESC C	
ESC H		1B 43	
1B 48		35. Cursor left:	
		ESC D	
ERASURE		1B 44	
18. Entire screen:	DELAY	CHARACTER SET	
ESC E	0	36. Full upper and lower ASCII:	YES
1B 45		37. Generate all control codes:	YES
19. Cursor to end of screen:		38. Bell or tone sequence:	
ESC J	0	^G	
1B 4A		07	
20. Beginning of screen to cursor:		EMULATION	
		39. Conform to ANSI X3.64?	NO
21. Cursor to end of line:		40. Terminals Emulated:	
ESC K	0		
1B 4B			
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Beehive International
DMSD (Plus)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^B ESC p
02 1B 70
2. ^B ESC q
02 1B 71
3. ^B ESC r
02 1B 72
4. ^B ESC s
02 1B 73
5. ^B ESC t
02 1B 74
6. ^B ESC u
02 1B 75
7. ^B ESC v
02 1B 76
8. ^B ESC w
02 1B 77
9. ^B ESC x
02 1B 78
10. ^B ESC y
02 1B 79
11. ^B ESC z
02 1B 7A
12. ^B ESC {
02 1B 7B
13. ^B ESC |
02 1B 7C
14. ^B ESC }
02 1B 7D
15. ^B ESC ~
02 1B 7E
16. ^B ESC DEL
02 1B 7F

NOTES

2. Dependent upon destructive scroll setting.
30. Alternate sequences provide combinations.
42. All function keys require termination sequence, which is switch selectable between CR; CRLF; EOT; and ETX.

1. Manufacturer:	Beehive International		
2. Terminal:	Topper (in DM78 mode)		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC d B	ESC d @
6. Left Column:	1	1B 64 42	1B 64 40
7. Printing in bottom right cause scroll?	NO	25. Reverse video:	
		ESC d P	ESC d @
		1B 64 50	1B 64 40
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC d `	ESC d @
ESC F		1B 64 60	1B 64 40
1B 46		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC d A	ESC d @
11. Add offset to:	Row: 1F	1B 64 41	1B 64 40
	Col: 1F	29. Attributes occupy position:	NO
12. Separator sequence:		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC d @	
		1B 64 40	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC F SP SP		32. Cursor up:	
1B 46 20 20		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC F) Q		33. Cursor down:	
1B 46 29 51		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	ESC D	
ESC E		1B 44	
1B 45	0	CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J		37. Generate all control codes:	YES
1B 4A	0	38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K		39. Conform to ANSI X3.64?	NO
1B 4B	0	40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Beehive International
Topper (in DM78 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^B ESC p
02 1B 70

2. ^B ESC q
02 1B 71

3. ^B ESC r
02 1B 72

4. ^B ESC s
02 1B 73

5. ^B ESC t
02 1B 74

6. ^B ESC u
02 1B 75

7. ^B ESC v
02 1B 76

8. ^B ESC w
02 1B 77

9. ^B ESC x
02 1B 78

10. ^B ESC y
02 1B 79

11. ^B ESC z
02 1B 7A

12. ^B ESC {
02 1B 7B

13. ^B ESC |
02 1B 7C

14. ^B ESC }
02 1B 7D

15. ^B ESC ~
02 1B 7E

16. ^B ESC DEL
02 1B 7F

NOTES

2. Dependent upon destructive scroll setting.

30. Alternate sequences provide combinations.

42. All function keys require termination sequence, which is switch selectable between CR; CRLF; EOT; and ETX.

1. Manufacturer:	CIE Terminals
2. Terminal:	CIT-101 and CIT-101e (ANSI mode)
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC [5 m ESC [m
6. Left Column: 1	1B 5B 35 6D 1B 5B 6D
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
	ESC [7 m ESC [m
	1B 5B 37 6D 1B 5B 6D
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC [4 m ESC [m
ESC [1B 5B	1B 5B 34 6D 1B 5B 6D
9. Row or column first: ROW	27. High intensity:
10. Numeric form of row and column: VARIABLE-LENGTH ASCII	ESC [1 m ESC [m
11. Add offset to: Row: 0 Col: 0	1B 5B 31 6D 1B 5B 6D
12. Separator sequence:	28. Half intensity:
; 3B	29. Attributes occupy position: NO
13. End sequence: H 48	30. Attributes cumulative: YES
	31. All attributes off:
	ESC [m
	1B 5B 6D
14. Cursor to top row, left column: ESC [1 ; 1 H 1B 5B 31 3B 31 48	CURSOR CONTROL KEYS
15. 10th Row, 50th Column: ESC [1 0 ; 5 0 H 1B 5B 31 30 3B 35 30 48	32. Cursor up:
16. Delay after positioning: 0	ESC [A 1B 5B 41
17. Cursor home: ESC [H 1B 5B 48	33. Cursor down:
	ESC [B 1B 5B 42
	34. Cursor right:
	ESC [C 1B 5B 43
	35. Cursor left:
	ESC [D 1B 5B 44
ERASURE DELAY	CHARACTER SET
18. Entire screen: ESC [2 J 1B 5B 32 4A 0	36. Full upper and lower ASCII: YES
19. Cursor to end of screen: ESC [J 1B 5B 4A 0	37. Generate all control codes: YES
20. Beginning of screen to cursor: ESC [1 J 1B 5B 31 4A 0	38. Bell or tone sequence: ^G 07
21. Cursor to end of line: ESC [K 1B 5B 4B 0	EMULATION
22. Beginning of line to cursor: ESC [1 K 1B 5B 31 4B 0	39. Conform to ANSI X3.64? YES
23. Entire cursor line: ESC [2 K 1B 5B 32 4B 0	40. Terminals Emulated: DEC VT100

Manufacturer:
Terminal:

CIE Terminals
CIT-101 and CIT-101e (ANSI mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O P
1B 4F 50

2. ESC O Q
1B 4F 51

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

4. Optionally 132.

30. See ANSI video attribute
discussion.

36. Plus 32 standard graphics
characters, 32 alternate graphics
characters, 96 alternate characters

-----		CIE Terminals	
1. Manufacturer:		CIT-101 and CIT-101e (VT52 mode)	
-----		-----	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1	25. Reverse video:	
7. Printing in bottom right cause scroll?	PROG		
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		27. High intensity:	
ESC Y			
1B 59		28. Half intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:	BINARY	29. Attributes occupy position:	NO
11. Add offset to:	Row: 1F	30. Attributes cumulative:	NO
	Col: 1F	31. All attributes off:	
12. Separator sequence:			
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC Y SP SP		32. Cursor up:	
1B 59 20 20		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC Y) Q		33. Cursor down:	
1B 59 29 51		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		ESC D	
ESC H ESC J	0	1B 44	
1B 48 1B 4A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J	0	37. Generate all control codes:	YES
1B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:		DEC VT52	
23. Entire cursor line:			

Manufacturer:

CIE Terminals

Terminal:

CIT-101 and CIT-101e (VT52 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. ESC P
1B 50

36. Plus 32 standard graphics
characters, 32 alternate
graphics characters, 96 alternate
characters.

2. ESC Q
1B 51

3. ESC R
1B 52

4. ESC S
1B 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	CIE Terminals
2. Terminal:	CIT-161 (ANSI mode)
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC [5 m ESC [m
6. Left Column: 1	1B 5B 35 6D 1B 5B 6D
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
	ESC [7 m ESC [m
	1B 5B 37 6D 1B 5B 6D
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC [4 m ESC [m
ESC [1B 5B	1B 5B 34 6D 1B 5B 6D
9. Row or column first: ROW	27. High intensity:
10. Numeric form of row and column: VARIABLE-LENGTH ASCII	ESC [1 m ESC [m
11. Add offset to: Row: 0 Col: 0	1B 5B 31 6D 1B 5B 6D
12. Separator sequence:	28. Half intensity:
; 3B	29. Attributes occupy position: NO
13. End sequence: H 48	30. Attributes cumulative: YES
	31. All attributes off:
	ESC [m 1B 5B 6D
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC [1 ; 1 H 1B 5B 31 3B 31 48	32. Cursor up:
15. 10th Row, 50th Column:	ESC [A 1B 5B 41
ESC [1 0 ; 5 0 H 1B 5B 31 30 3B 35 30 48	33. Cursor down:
16. Delay after positioning: 0	ESC [B 1B 5B 42
17. Cursor home:	34. Cursor right:
ESC [H 1B 5B 48	ESC [C 1B 5B 43
ERASURE	35. Cursor left:
18. Entire screen: DELAY	ESC [D 1B 5B 44
ESC [2 J 1B 5B 32 4A	CHARACTER SET
19. Cursor to end of screen:	36. Full upper and lower ASCII: YES
ESC [J 1B 5B 4A	37. Generate all control codes: YES
20. Beginning of screen to cursor:	38. Bell or tone sequence:
ESC [1 J 1B 5B 31 4A	^G 07
21. Cursor to end of line:	EMULATION
ESC [K 1B 5B 4B	39. Conform to ANSI X3.64? YES
22. Beginning of line to cursor:	40. Terminals Emulated:
ESC [1 K 1B 5B 31 4B	DEC VT100
23. Entire cursor line:	
ESC [2 K 1B 5B 32 4B	

Manufacturer:
Terminal:

CIE Terminals
CIT-161 (ANSI mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O P
1B 4F 50

2. ESC O Q
1B 4F 51

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

4. Optionally 132.

30. See ANSI video attribute
discussion.

36. Plus 32 standard graphics
characters, 32 alternate graphics
characters, 96 alternate characters

This terminal allows color video

1. Manufacturer:		CIE Terminals	
2. Terminal:		CIT-161 (VT52 mode)	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1		
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		27. High intensity:	
ESC Y			
1B 59		28. Half intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		29. Attributes occupy position:	NO
BINARY		30. Attributes cumulative:	NO
11. Add offset to:	Row: 1F Col: 1F	31. All attributes off:	
12. Separator sequence:			
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC Y SP SP		32. Cursor up:	
1B 59 20 20		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC Y) Q		33. Cursor down:	
1B 59 29 51		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		ESC D	
ESC H ESC J	0	1B 44	
1B 48 1B 4A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J	0	37. Generate all control codes:	YES
1B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:		DEC VT52	
23. Entire cursor line:			

Manufacturer:
Terminal:

CIE Terminals
CIT-161 (VT52 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. ESC P
1B 50

36. Plus 32 standard graphics
characters, 32 alternate
graphics characters, 96 alternate
characters.

2. ESC Q
1B 51

3. ESC R
1B 52

4. ESC S
1B 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	CIE Terminals
2. Terminal:	CIT-467 (ANSI mode)
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC [5 m ESC [m
6. Left Column: 1	1B 5B 35 6D 1B 5B 6D
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
	ESC [7 m ESC [m
	1B 5B 37 6D 1B 5B 6D
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC [4 m ESC [m
ESC [1B 5B	1B 5B 34 6D 1B 5B 6D
9. Row or column first: ROW	27. High intensity:
10. Numeric form of row and column: VARIABLE-LENGTH ASCII	ESC [1 m ESC [m
11. Add offset to: Row: 0 Col: 0	1B 5B 31 6D 1B 5B 6D
12. Separator sequence:	28. Half intensity:
; 3B	29. Attributes occupy position: NO
13. End sequence: H 48	30. Attributes cumulative: YES
14. Cursor to top row, left column: ESC [1 ; 1 H 1B 5B 31 3B 31 48	31. All attributes off: ESC [m 1B 5B 6D
15. 10th Row, 50th Column: ESC [1 0 ; 5 0 H 1B 5B 31 30 3B 35 30 48	CURSOR CONTROL KEYS
16. Delay after positioning: 0	32. Cursor up: ESC [A 1B 5B 41
17. Cursor home: ESC [H 1B 5B 48	33. Cursor down: ESC [B 1B 5B 42
ERASURE DELAY	34. Cursor right: ESC [C 1B 5B 43
18. Entire screen: ESC [2 J 1B 5B 32 4A 0	35. Cursor left: ESC [D 1B 5B 44
19. Cursor to end of screen: ESC [J 1B 5B 4A 0	CHARACTER SET
20. Beginning of screen to cursor: ESC [1 J 1B 5B 31 4A 0	36. Full upper and lower ASCII: YES
21. Cursor to end of line: ESC [K 1B 5B 4B 0	37. Generate all control codes: YES
22. Beginning of line to cursor: ESC [1 K 1B 5B 31 4B 0	38. Bell or tone sequence: ^G 07
23. Entire cursor line: ESC [2 K 1B 5B 32 4B 0	EMULATION
	39. Conform to ANSI X3.64? YES
	40. Terminals Emulated: Compatible with DEC VT100 and TEK 4010/4014, 4027 Software compatible with DEC VT52

Manufacturer:

CIE Terminals

Terminal:

CIT-467 (ANSI mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. ESC O P
1B 4F 50

4. Optionally 132.

30. See ANSI video attribute
discussion.

2. ESC O Q
1B 4F 51

36. Plus 32 standard graphics
characters, 32 alternate graphics
characters, 96 alternate characters

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	CIE Terminals
2. Terminal:	CIT-467 (VT52 mode)
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	
6. Left Column: 1	
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence: ESC Y	
1B 59	27. High intensity:
9. Row or column first: ROW	
10. Numeric form of row and column: BINARY	28. Half intensity:
11. Add offset to: Row: 1F Col: 1F	
12. Separator sequence:	29. Attributes occupy position: NO
	30. Attributes cumulative: NO
	31. All attributes off:
13. End sequence:	
14. Cursor to top row, left column: ESC Y SP SP	CURSOR CONTROL KEYS
1B 59 20 20	32. Cursor up: ESC A
15. 10th Row, 50th Column: ESC Y) Q	1B 41
1B 59 29 51	33. Cursor down: ESC B
16. Delay after positioning: 0	1B 42
17. Cursor home: ESC H	34. Cursor right: ESC C
1B 48	1B 43
ERASURE DELAY	35. Cursor left: ESC D
18. Entire screen: ESC H ESC J 0	1B 44
1B 48 1B 4A	CHARACTER SET
19. Cursor to end of screen: ESC J 0	36. Full upper and lower ASCII: YES
1B 4A	37. Generate all control codes: YES
20. Beginning of screen to cursor:	38. Bell or tone sequence: ^G
	07
21. Cursor to end of line: ESC K 0	EMULATION
1B 4B	39. Conform to ANSI X3.64? NO
22. Beginning of line to cursor:	40. Terminals Emulated: Software compatible with DEC VT52
23. Entire cursor line:	

Manufacturer:
Terminal:

CIE Terminals
CIT-467 (VT52 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC P
1B 50

2. ESC Q
1B 51

3. ESC R
1B 52

4. ESC S
1B 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

36. Plus 32 standard graphics characters, 32 alternate graphics characters, 96 alternate characters.

1. Manufacturer:	CIE Terminals
2. Terminal:	CIT-500 (ANSI mode)
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC [5 m ESC [m
6. Left Column: 1	1B 5B 35 6D 1B 5B 6D
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
	ESC [7 m ESC [m
	1B 5B 37 6D 1B 5B 6D
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC [4 m ESC [m
ESC [1B 5B	1B 5B 34 6D 1B 5B 6D
9. Row or column first: ROW	27. High intensity:
10. Numeric form of row and column: VARIABLE-LENGTH ASCII	ESC [1 m ESC [m
11. Add offset to: Row: 0 Col: 0	1B 5B 31 6D 1B 5B 6D
12. Separator sequence:	28. Half intensity:
; 3B	29. Attributes occupy position: NO
13. End sequence: H 48	30. Attributes cumulative: YES
14. Cursor to top row, left column:	31. All attributes off:
ESC [1 ; 1 H 1B 5B 31 3B 31 48	ESC [m 1B 5B 6D
15. 10th Row, 50th Column:	CURSOR CONTROL KEYS
ESC [1 0 ; 5 0 H 1B 5B 31 30 3B 35 30 48	32. Cursor up:
16. Delay after positioning: 0	ESC [A 1B 5B 41
17. Cursor home:	33. Cursor down:
ESC [H 1B 5B 48	ESC [B 1B 5B 42
ERASURE DELAY	34. Cursor right:
18. Entire screen:	ESC [C 1B 5B 43
ESC [2 J 1B 5B 32 4A	35. Cursor left:
19. Cursor to end of screen:	ESC [D 1B 5B 44
ESC [J 1B 5B 4A	CHARACTER SET
20. Beginning of screen to cursor:	36. Full upper and lower ASCII: YES
ESC [1 J 1B 5B 31 4A	37. Generate all control codes: YES
21. Cursor to end of line:	38. Bell or tone sequence:
ESC [K 1B 5B 4B	^G 07
22. Beginning of line to cursor:	EMULATION
ESC [1 K 1B 5B 31 4B	39. Conform to ANSI X3.64? YES
23. Entire cursor line:	40. Terminals Emulated:
ESC [2 K 1B 5B 32 4B	DEC VT100

Manufacturer:
Terminal:

CIE Terminals
CIT-500 (ANSI mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O P
1B 4F 50

2. ESC O Q
1B 4F 51

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

NOTES

3. Optionally 64.

4. Optionally 120.

30. See ANSI video attribute
discussion.

36. Plus 32 standard graphics
characters, RAM loadable and down-
line loadable 128 character set.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	CIE Terminals
2. Terminal:	CIT-500 (VT52 mode)
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	
6. Left Column: 1	
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence: ESC Y 1B 59	27. High intensity:
9. Row or column first: ROW	28. Half intensity:
10. Numeric form of row and column: BINARY	
11. Add offset to: Row: 1F Col: 1F	29. Attributes occupy position: NO
12. Separator sequence:	30. Attributes cumulative: NO
13. End sequence:	31. All attributes off:
14. Cursor to top row, left column: ESC Y SP SP 1B 59 20 20	CURSOR CONTROL KEYS
15. 10th Row, 50th Column: ESC Y) Q 1B 59 29 51	32. Cursor up: ESC A 1B 41
16. Delay after positioning: 0	33. Cursor down: ESC B 1B 42
17. Cursor home: ESC H 1B 48	34. Cursor right: ESC C 1B 43
ERASURE DELAY	35. Cursor left: ESC D 1B 44
18. Entire screen: ESC H ESC J 1B 48 1B 4A	CHARACTER SET
19. Cursor to end of screen: ESC J 1B 4A	36. Full upper and lower ASCII: YES
20. Beginning of screen to cursor:	37. Generate all control codes: YES
	38. Bell or tone sequence: ^G 07
21. Cursor to end of line: ESC K 1B 4B	EMULATION
22. Beginning of line to cursor:	39. Conform to ANSI X3.64? NO
	40. Terminals Emulated: DEC VT52
23. Entire cursor line:	

Manufacturer:
Terminal:

CIE Terminals
CIT-500 (VT52 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC P
1B 50

2. ESC Q
1B 51

3. ESC R
1B 52

4. ESC S
1B 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

36. Plus 32 standard graphics
characters, RAM loadable and down-
line loadable 128 character set.

1. Manufacturer:	CIE Terminals
2. Terminal:	CIT-80 (ANSI mode)

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column: VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0
12. Separator sequence:
;
3B
13. End sequence:
H
48
14. Cursor to top row, left column:
ESC [1 ; 1 H
1B 5B 31 3B 31 48
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 H
1B 5B 31 30 3B 35 30 48
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE

18. Entire screen: DELAY
ESC [2 J 0
1B 5B 32 4A
19. Cursor to end of screen:
ESC [J 0
1B 5B 4A
20. Beginning of screen to cursor:
ESC [1 J 0
1B 5B 31 4A
21. Cursor to end of line:
ESC [K 0
1B 5B 4B
22. Beginning of line to cursor:
ESC [1 K 0
1B 5B 31 4B
23. Entire cursor line:
ESC [2 K 0
1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
24. Blinking:
ESC [5 m ESC [m
1B 5B 35 6D 1B 5B 6D
25. Reverse video:
ESC [7 m ESC [m
1B 5B 37 6D 1B 5B 6D
26. Underline:
ESC [4 m ESC [m
1B 5B 34 6D 1B 5B 6D
27. High intensity:
ESC [1 m ESC [m
1B 5B 31 6D 1B 5B 6D
28. Half intensity:

29. Attributes occupy position: NO
30. Attributes cumulative: YES
31. All attributes off:
ESC [m
1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:

Manufacturer:
Terminal:

CIE Terminals
CIT-80 (ANSI mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. ESC O P
1B 4F 50

30. See ANSI video attribute
discussion.

2. ESC O Q
1B 4F 51

36. Plus 32 standard graphics
characters.

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	CIE Terminals
2. Terminal:	CIT-80 (VT52 mode)
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC d B ESC d @
6. Left Column: 1	1B 64 42 1B 64 40
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
	ESC d P ESC d @
	1B 64 50 1B 64 40
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC d \ ESC d @
ESC Y 1B 59	1B 64 5C 1B 64 40
9. Row or column first: ROW	27. High intensity:
10. Numeric form of row and column: BINARY	ESC d A ESC d @
11. Add offset to: Row: 1F Col: 1F	1B 64 41 1B 64 40
12. Separator sequence:	28. Half intensity:
13. End sequence:	29. Attributes occupy position: NO
	30. Attributes cumulative: NO
	31. All attributes off:
	ESC d @
	1B 64 40
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC Y SP SP	32. Cursor up:
1B 59 20 20	ESC A
15. 10th Row, 50th Column:	1B 41
ESC Y) Q	33. Cursor down:
1B 59 29 51	ESC B
16. Delay after positioning: 0	1B 42
17. Cursor home:	34. Cursor right:
ESC H	ESC C
1B 48	1B 43
ERASURE DELAY	35. Cursor left:
18. Entire screen:	ESC D
ESC H ESC J	1B 44
1B 48 1B 4A	CHARACTER SET
19. Cursor to end of screen:	36. Full upper and lower ASCII: YES
ESC J	37. Generate all control codes: YES
1B 4A	38. Bell or tone sequence:
20. Beginning of screen to cursor:	^G
	07
21. Cursor to end of line:	EMULATION
ESC K	39. Conform to ANSI X3.64? NO
1B 4B	40. Terminals Emulated:
22. Beginning of line to cursor:	DEC VT52
23. Entire cursor line:	

Manufacturer:
Terminal:

CIE Terminals
CIT-80 (VT52 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. ESC P
1B 50

30. Half intensity-blinking

ESC d C

2. ESC Q
1B 51

Reverse video-high intensity

ESC d Q

Reverse video-blinking

3. ESC R
1B 52

ESC d R

Reverse video-high intensity-blink

ESC d S

4. ESC S
1B 53

Underline-half intensity

ESC d a

Underline-blink-high intensity

ESC d c

5.

Underline-reverse-high intensity

ESC d q

6.

Underline-reverse-blink

ESC d r

Underline-reverse video

7.

ESC d p

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Cobar
2. Terminal:	Cobar 3100, Cobar 3132
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC [5 m ESC [m
6. Left Column: 1	1B 5B 35 6D 1B 5B 6D
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
	ESC [7 m ESC [m
	1B 5B 37 6D 1B 5B 6D
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC [4 m ESC [m
ESC [1B 5B	1B 5B 34 6D 1B 5B 6D
9. Row or column first: ROW	27. High intensity:
10. Numeric form of row and column: VARIABLE-LENGTH ASCII	ESC [1 m ESC [m
11. Add offset to: Row: 0 Col: 0	1B 5B 31 6D 1B 5B 6D
12. Separator sequence:	28. Half intensity:
; 3B	29. Attributes occupy position: NO
13. End sequence: H 48	30. Attributes cumulative: YES
14. Cursor to top row, left column: ESC [1 ; 1 H 1B 5B 31 3B 31 48	31. All attributes off: ESC [m 1B 5B 6D
15. 10th Row, 50th Column: ESC [1 0 ; 5 0 H 1B 5B 31 30 3B 35 30 48	CURSOR CONTROL KEYS
16. Delay after positioning: 0	32. Cursor up: ESC [A 1B 5B 41
17. Cursor home: ESC [H 1B 5B 48	33. Cursor down: ESC [B 1B 5B 42
ERASURE DELAY	34. Cursor right: ESC [C 1B 5B 43
18. Entire screen: ESC [2 J 1B 5B 32 4A 0	35. Cursor left: ESC [D 1B 5B 44
19. Cursor to end of screen: ESC [J 1B 5B 4A 0	CHARACTER SET
20. Beginning of screen to cursor: ESC [1 J 1B 5B 31 4A 0	36. Full upper and lower ASCII: YES
21. Cursor to end of line: ESC [K 1B 5B 4B 0	37. Generate all control codes: YES
22. Beginning of line to cursor: ESC [1 K 1B 5B 31 4B 0	38. Bell or tone sequence: ^G 07
23. Entire cursor line: ESC [2 K 1B 5B 32 4B 0	EMULATION
	39. Conform to ANSI X3.64? YES
	40. Terminals Emulated: DEC VT100/102 DEC VT52 Cobar 3132 emulates DEC VT132

Manufacturer:
Terminal:

Cobar
Cobar 3100, Cobar 3132

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O P
1B 4F 50
2. ESC O Q
1B 4F 51
3. ESC O R
1B 4F 52
4. ESC O S
1B 4F 53
5. ESC O w
1B 4F 77
6. ESC O x
1B 4F 78
7. ESC O y
1B 4F 79
8. ESC O m
1B 4F 6D
9. ESC O t
1B 4F 74
10. ESC O u
1B 4F 75
11. ESC O v
1B 4F 76
12. ESC O q
1B 4F 71
13. ESC O l
1B 4F 6C
14. ESC O s
1B 4F 73
15. ESC O t
1B 4F 74
16. ESC O M
1B 4F 4D

NOTES

4. Optionally 132.
7. Set-up feature.
13. Or f (66H).
14. Or ESC [1 ; 1 f
15. Or ESC [1 0 ; 5 0 f
17. Or ESC [f
30. Blinking and reverse video:
ESC [5 ; 7 m
42. PF17 ESC O n
PF18 ESC O p

1. Manufacturer:	Colorgraphic Communications Corp.
2. Terminal:	MVI-100 Model 100, 489, 119, 113

SCREEN LAYOUT

3. Number of rows: 48
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48
 14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

18. Entire screen: DELAY
 ESC [2 J 0
 1B 5B 32 4A
 19. Cursor to end of screen:
 ESC [0 J 0
 1B 5B 30 4A
 20. Beginning of screen to cursor:
 ESC [1 J 0
 1B 5B 31 4A
 21. Cursor to end of line:
 ESC [0 K 0
 1B 5B 30 4B
 22. Beginning of line to cursor:
 ESC [1 K 0
 1B 5B 31 4B
 23. Entire cursor line:
 ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [2 2 m
 1B 5B 35 6D 1B 5B 32 32 6D
 25. Reverse video:
 ESC [7 m ESC [2 3 m
 1B 5B 37 6D 1B 5B 32 33 6D
 26. Underline:
 ESC [4 m ESC [2 1 m
 1B 5B 34 6D 1B 5B 32 31 6D
 27. High intensity:
 ESC [1 m ESC [2 m
 1B 5B 31 6D 1B 5B 32 6D
 28. Half intensity:

29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC [0 m
 1B 5B 30 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:
 DEC VT100, DEC VT52, ADDS, ADM3
 HAZELTINE 1500, IBM 3101

Manufacturer:
Terminal:

Colorgraphic Communications Corp.
MVI-100 Model 100, 489, 119, 113

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|---|
| 1. | 30. See ANSI cumulative attribute discussion. |
| 2. | 36. Also process control set. |
| | 42. PF1-PF12 programmable. |
| 3. | |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | ESC O w
1B 4F 77 |
| 14. | ESC O x
1B 4F 78 |
| 15. | ESC O y
1B 4F 79 |
| 16. | ESC O t
1B 4F 74 |

1. Manufacturer:	Colorgraphic Communications Corp.
2. Terminal:	MVI-100 Model 813/819 VT100 mode

SCREEN LAYOUT

3. Number of rows: 48
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column: VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0
12. Separator sequence:
;
3B
13. End sequence:
H
48

14. Cursor to top row, left column:
ESC [1 ; 1 H
1B 5B 31 3B 31 48
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 H
1B 5B 31 30 3B 35 30 48
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE

18. Entire screen: DELAY 0
ESC [2 J
1B 5B 32 4A
19. Cursor to end of screen: 0
ESC [0 J
1B 5B 30 4A
20. Beginning of screen to cursor: 0
ESC [1 J
1B 5B 31 4A
21. Cursor to end of line: 0
ESC [0 K
1B 5B 30 4B
22. Beginning of line to cursor: 0
ESC [1 K
1B 5B 31 4B
23. Entire cursor line: 0
ESC [2 K
1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
24. Blinking:
ESC [5 m ESC [2 2 m
1B 5B 35 6D 1B 5B 32 32 6I
25. Reverse video:
ESC [7 m ESC [2 3 m
1B 5B 37 6D 1B 5B 32 33 6I
26. Underline:
ESC [4 m ESC [2 1 m
1B 5B 34 6D 1B 5B 32 31 6I
27. High intensity:
ESC [1 m ESC [2 m
1B 5B 31 6D 1B 5B 32 6D
28. Half intensity:

29. Attributes occupy position: NO
30. Attributes cumulative: YES
31. All attributes off:
ESC [0 m
1B 5B 30 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:
ISC8001G
MVI-100-8
VT100
VT52

Manufacturer:

Colorgraphic Communications Corp.

Terminal:

MVI-100 Model 813/819 VT100 mode

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|---|
| 1. | 30. See ANSI cumulative attribute discussion. |
| 2. | 36. Also process control set. |
| | 42. PF1-PF12 programmable. |
| | PF13-PF24 fixed sequence. |
| 3. | |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | ESC O w |
| | 1B 4F 77 |
| 14. | ESC O x |
| | 1B 4F 78 |
| 15. | ESC O y |
| | 1B 4F 79 |
| 16. | ESC O t |
| | 1B 4F 74 |

1. Manufacturer:	Colorgraphic Communications Corp.
2. Terminal:	MVI-100 Model 813/819 ISC8001G mode

SCREEN LAYOUT

3. Number of rows: 48
 4. Number of columns: 80
 5. Top Row: 0
 6. Left Column: 0
 7. Printing in bottom right
 cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ^C
 03
 9. Row or column first: COL
 10. Numeric form of row and column:
 BINARY
 11. Add offset to: Row: 0
 Col: 0
 12. Separator sequence:
 13. End sequence:

14. Cursor to top row, left column:

^C NUL NUL
 03 00 00

15. 10th Row, 50th Column:

^C 2 ^J
 03 32 0A

16. Delay after positioning: 0

17. Cursor home:

^H
 08

ERASURE

DELAY

18. Entire screen:

^L 0
 0C

19. Cursor to end of screen:

0

20. Beginning of screen to cursor:

0

21. Cursor to end of line:

0

22. Beginning of line to cursor:

0

23. Entire cursor line:

^K 0
 0B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking: ^ 0
 1F 0F
 25. Reverse video:

26. Underline:

27. High intensity:

28. Half intensity:

29. Attributes occupy position: NO

30. Attributes cumulative: YES

31. All attributes off:

^F ^B
 06 02

CURSOR CONTROL KEYS

32. Cursor up:

^\
 1C

33. Cursor down:

^J
 0A

34. Cursor right:

^Z
 1A

35. Cursor left:

^Y
 19

CHARACTER SET

36. Full upper and lower ASCII: YES

37. Generate all control codes: YES

38. Bell or tone sequence:

^G
 07

EMULATION

39. Conform to ANSI X3.64? YES

40. Terminals Emulated:

ISC8001G
 MVI-100-8
 VT100
 VT52

Manufacturer:

Colorgraphic Communications Corp.

Terminal:

MVI-100 Model 813/819 ISC8001G mode

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. 36. Also process control set.
2. 42. PF1-PF12 programmable.
3. PF13-PF24 fixed sequences.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
13. ESC 0 w
1B 4F 77
14. ESC 0 x
1B 4F 78
15. ESC 0 y
1B 4F 79
16. ESC 0 t
1B 4F 74

1. Manufacturer:	Colorgraphic Communications Corp.
2. Terminal:	MVI-7 Models 7, 719

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column: VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48

14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

18. Entire screen: DELAY 0
 ESC [2 J
 1B 5B 32 4A
 19. Cursor to end of screen: 0
 ESC [0 J
 1B 5B 30 4A
 20. Beginning of screen to cursor: 0
 ESC [1 J
 1B 5B 31 4A
 21. Cursor to end of line: 0
 ESC [0 K
 1B 5B 30 4B
 22. Beginning of line to cursor: 0
 ESC [1 K
 1B 5B 31 4B
 23. Entire cursor line: 0
 ESC [2 K
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON	OFF
24. Blinking: ESC [5 m 1B 5B 35 6D	ESC [2 2 m 1B 5B 32 32 6I
25. Reverse video: ESC [7 m 1B 5B 37 6D	ESC [2 3 m 1B 5B 32 33 6I
26. Underline: ESC [4 m 1B 5B 34 6D	ESC [2 1 m 1B 5B 32 31 6I
27. High intensity: ESC [1 m 1B 5B 31 6D	ESC [2 m 1B 5B 32 6D
28. Half intensity:	
29. Attributes occupy position: NO	
30. Attributes cumulative: YES	
31. All attributes off: ESC [0 m 1B 5B 30 6D	

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
 33. Cursor down:
ESC [B
1B 5B 42
 34. Cursor right:
ESC [C
1B 5B 43
 35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:
 DEC VT100, DEC VT52, ADDS, ADM3
 HAZELTINE 1500, IBM 3101

Manufacturer:
Terminal:

Colorgraphic Communications Corp.
MVI-7 Models 7, 719

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|---|
| 1. | 30. See ANSI cumulative attribute discussion. |
| 2. | 36. Also process control set. |
| | 42. PF1-PF12 programmable. |
| 3. | |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | ESC O w
1B 4F 77 |
| 14. | ESC O x
1B 4F 78 |
| 15. | ESC O y
1B 4F 79 |
| 16. | ESC O t
1B 4F 74 |

1. Manufacturer:	Corona Data Systems Inc.		
2. Terminal:	Personal Computer		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	25	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	0	ESC [5 m	ESC [m
6. Left Column:	0	1B 5B 35 6D	1B 5B 6D
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
ESC [		1B 5B 34 6D	1B 5B 6D
1B 5B		27. High intensity:	
9. Row or column first:	ROW	ESC [1 m	ESC [m
10. Numeric form of row and column:		1B 5B 31 6D	1B 5B 6D
VARIABLE-LENGTH ASCII		28. Half intensity:	
11. Add offset to:	Row: 0		
	Col: 0		
12. Separator sequence:		29. Attributes occupy position:	NO
;		30. Attributes cumulative:	YES
3B		31. All attributes off:	
13. End sequence:		ESC [m	
H		1B 5B 6D	
48			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC [0 ; 0 H		32. Cursor up:	
1B 5B 30 3B 30 48		ESC [A	
15. 10th Row, 50th Column:		1B 5B 41	
ESC [1 0 ; 5 0 H		33. Cursor down:	
1B 5B 31 30 3B 35 30 48		ESC [B	
16. Delay after positioning:	0	1B 5B 42	
17. Cursor home:		34. Cursor right:	
ESC [H		ESC [C	
1B 5B 48		1B 5B 43	
		35. Cursor left:	
		ESC [D	
		1B 5B 44	
ERASURE		CHARACTER SET	
18. Entire screen:	DELAY	36. Full upper and lower ASCII:	YES
ESC [2 J	0	37. Generate all control codes:	YES
1B 5B 32 4A		38. Bell or tone sequence:	
19. Cursor to end of screen:		^G	
ESC [J	0	07	
1B 5B 4A			
20. Beginning of screen to cursor:		EMULATION	
ESC [1 J	0	39. Conform to ANSI X3.64?	YES
1B 5B 31 4A		40. Terminals Emulated:	
21. Cursor to end of line:		Runs "IBM PC" compatible progra	
ESC [K	0		
1B 5B 4B			
22. Beginning of line to cursor:			
ESC [1 K	0		
1B 5B 31 4B			
23. Entire cursor line:			
ESC [2 K	0		
1B 5B 32 4B			

Manufacturer:
Terminal:

Corona Data Systems Inc.
Personal Computer

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. NUL ;
00 3B

2. NUL <
00 3C

3. NUL =
00 3D

4. NUL >
00 3E

5. NUL ?
00 3F

6. NUL @
00 40

7. NUL A
00 41

8. NUL B
00 42

9. NUL C
00 43

10. NUL D
00 44

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Cromemco, Inc.
2. Terminal:	C-10
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC d B ESC d @
6. Left Column: 1	1B 64 42 1B 64 40
7. Printing in bottom right cause scroll? YES	25. Reverse video:
	ESC d P ESC d @
	1B 64 50 1B 64 40
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC d ` ESC d @
ESC Y	1B 64 60 1B 64 40
1B 59	27. High intensity:
9. Row or column first: ROW	ESC d H ESC d @
10. Numeric form of row and column: BINARY	1B 64 48 1B 64 40
11. Add offset to: Row: 1F	28. Half intensity:
Col: 1F	ESC d A ESC d @
12. Separator sequence:	1B 64 41 1B 64 40
	29. Attributes occupy position: NO
	30. Attributes cumulative: NO
13. End sequence:	31. All attributes off:
	ESC d @
	1B 64 40
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC Y SP SP	32. Cursor up:
1B 59 20 20	ESC A
15. 10th Row, 50th Column:	1B 41
ESC Y) Q	33. Cursor down:
1B 59 29 51	ESC B
16. Delay after positioning: 0	1B 42
17. Cursor home:	34. Cursor right:
ESC H	ESC C
1B 48	1B 43
ERASURE	35. Cursor left:
18. Entire screen:	ESC D
ESC E	1B 44
1B 45	
19. Cursor to end of screen:	CHARACTER SET
ESC J	36. Full upper and lower ASCII: YES
1B 4A	37. Generate all control codes: YES
20. Beginning of screen to cursor:	38. Bell or tone sequence:
	^G
	07
21. Cursor to end of line:	EMULATION
ESC K	39. Conform to ANSI X3.64? NO
1B 4B	40. Terminals Emulated:
22. Beginning of line to cursor:	
23. Entire cursor line:	

Manufacturer:
Terminal:

Cromemco, Inc.
C-10

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^B p
02 70

2. ^B q
02 71

3. ^B r
02 72

4. ^B s
02 73

5. ^B t
02 74

6. ^B u
02 75

7. ^B v
02 76

8. ^B w
02 77

9. ^B x
02 78

10. ^B y
02 79

11. ^B z
02 7A

12. ^B {
02 7B

13. ^B |
02 7C

14. ^B }
02 7D

15. ^B ~
02 7E

16. ^B DEL
02 7F

NOTES

1. 25th status line.

8. Or ESC F.

14. Or ESC F SP SP.

15. Or ESC F) Q.

27. This sequence selects bold set.

30. All attributes preceeded by ESC d:

std	gra	bold	misc	
@	D	H	L	normal
A	E	I	M	half
B	F	J	N	blink
C	G	K	O	half-blink
P	T	X	\	reverse
Q	U	Y	]	half-reverse
R	V	Z	^	blink-reverse
S	W	[	_	half-blink-rev
^	d	h	l	underline
a	e	i	m	half-under
b	f	j	n	blink-under
c	g	k	o	half-blink-und
p	t	x		rev-underlined
q	u	y	}	half-rev-under
r	v	z	~	blink-rev-und
s	w	{	DEL	half-blink-rev-underline

31. All attributes off returns to normal character set.

36. Four character sets standard: normal, graphics, bold, misc.

42. Additional program function keys:

PF17 STX o
PF18 STX n
PF19 STX m
PF20 STX l

1. Manufacturer:	CTi DATA Corporation		
2. Terminal:	CTi 3078		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC 0 B	ESC 0 @
6. Left Column:	1	1B 30 42	1B 30 40
7. Printing in bottom right cause scroll?	NO	25. Reverse video:	
		ESC 0 P	ESC 0 @
		1B 30 50	1B 30 40
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC 0 `	ESC 0 @
ESC Y		1B 30 60	1B 30 40
1B 59		27. High intensity:	
9. Row or column first:	ROW	ESC 0 0	ESC 0 @
10. Numeric form of row and column:		1B 30 30	1B 30 40
BINARY		28. Half intensity:	
11. Add offset to:	Row: 1F	ESC 0 A	ESC 0 @
	Col: 1F	1B 30 41	1B 30 40
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC 0 @	
		1B 30 40	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC Y SP SP		32. Cursor up:	
1B 59 20 20		^Z	
15. 10th Row, 50th Column:		1A	
ESC Y) Q		33. Cursor down:	
1B 59 29 51		^J	
16. Delay after positioning:	0	0A	
17. Cursor home:		34. Cursor right:	
^A		^F	
01		06	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	^H	
^L	0	08	
0C		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC k	0	37. Generate all control codes:	NO
1B 6B		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:		ADDS VP60	
		ADDS VP78	
23. Entire cursor line:			
ESC l	20		
1B 6C			

Manufacturer:
Terminal:

CTi DATA Corporation
CTi 3078

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. Additional PF keys:

1. ESC SP
1B 20

17. ESC 0

1B 30

2. ESC !
1B 21

18. ESC 1

1B 31

3. ESC "
1B 22

19. ESC 2

1B 32

4. ESC #
1B 23

20. ESC 3

1B 33

5. ESC \$
1B 24

21. ESC 4

1B 34

6. ESC %
1B 25

22. ESC 5

1B 35

23. ESC 6

1B 36

24. ESC 7

1B 37

7. ESC &
1B 26

8. ESC ^
1B 27

9. ESC (
1B 28

10. ESC)
1B 29

11. ESC *
1B 2A

12. ESC +
1B 2B

13. ESC ,
1B 2C

14. ESC -
1B 2D

15. ESC .
1B 2E

16. ESC /
1B 2F

1. Manufacturer:	Digital Equipment Corporation
2. Terminal:	VT100, 101, 102, 131, 125

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48
 14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

18. Entire screen: DELAY
 ESC [2 J 0
 1B 5B 32 4A
 19. Cursor to end of screen:
 ESC [J 0
 1B 5B 4A
 20. Beginning of screen to cursor:
 ESC [1 J 0
 1B 5B 31 4A
 21. Cursor to end of line:
 ESC [K 0
 1B 5B 4B
 22. Beginning of line to cursor:
 ESC [1 K 0
 1B 5B 31 4B
 23. Entire cursor line:
 ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D
 28. Half intensity:
 29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:
 DEC VT52

Manufacturer:
Terminal:

Digital Equipment Corporation
VT100, 101, 102, 131, 125

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O P
1B 4F 50

2. ESC O Q
1B 4F 51

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

NOTES

3. Optionally 14x132.

4. Optionally 14x132.

VT102 allows 24x132.

36. Includes 32 line drawing and
other graphic characters.
National Replacement character
sets optional.

VT125 includes 240x768 bit-
mapped graphics.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Digital Equipment Corporation
2. Terminal:	VT220, 240, 241

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column: VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48
 14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

18. Entire screen: DELAY
 ESC [2 J 0
 1B 5B 32 4A
 19. Cursor to end of screen:
 ESC [J 0
 1B 5B 4A
 20. Beginning of screen to cursor:
 ESC [1 J 0
 1B 5B 31 4A
 21. Cursor to end of line:
 ESC [K 0
 1B 5B 4B
 22. Beginning of line to cursor:
 ESC [1 K 0
 1B 5B 31 4B
 23. Entire cursor line:
 ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D
 28. Half intensity:
 29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:
 DEC VT52

Manufacturer:
Terminal:

Digital Equipment Corporation
VT220, 240, 241

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O P
1B 4F 50

2. ESC O Q
1B 4F 51

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

NOTES

4. Optionally 132.

36. Includes 32 line drawing and
other graphic characters.
Multinational character sets.
Downline loadable character
sets.

VT240 and VT241 include
240x800 bit-mapped graphics.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Digital Equipment Corporation
2. Terminal:		VT52, VT55

SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	
6. Left Column: 1	
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	
ESC Y	
1B 59	27. High intensity:
9. Row or column first: ROW	
10. Numeric form of row and column: BINARY	28. Half intensity:
11. Add offset to: Row: 1F	
Col: 1F	
12. Separator sequence:	29. Attributes occupy position: NO
	30. Attributes cumulative: NO
	31. All attributes off:
13. End sequence:	
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC Y SP SP	32. Cursor up:
1B 59 20 20	ESC A
15. 10th Row, 50th Column:	1B 41
ESC Y) Q	33. Cursor down:
1B 59 29 51	ESC B
16. Delay after positioning: 0	1B 42
17. Cursor home:	34. Cursor right:
ESC H	ESC C
1B 48	1B 43
ERASURE	35. Cursor left:
18. Entire screen: DELAY	ESC D
ESC H ESC J	1B 44
1B 48 1B 4A	CHARACTER SET
19. Cursor to end of screen: 0	36. Full upper and lower ASCII: YES
ESC J	37. Generate all control codes: YES
1B 4A	38. Bell or tone sequence:
20. Beginning of screen to cursor:	^G
	07
21. Cursor to end of line:	EMULATION
ESC K	39. Conform to ANSI X3.64? NO
1B 4B	40. Terminals Emulated:
22. Beginning of line to cursor:	
23. Entire cursor line:	

Manufacturer:
Terminal:

Digital Equipment Corporation
VT52, VT55

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O P
 1B 4F 50

2. ESC O Q
 1B 4F 51

3. ESC O R
 1B 4F 52

4. ESC O S
 1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Digital Microsystems		
2. Terminal:	DMS-3/F, DMS-15, DMS-501		

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC B	ESC N
6. Left Column:	1	1B 42	1B 4E
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC R	ESC N
		1B 52	1B 4E
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC U	ESC N
ESC Y		1B 55	1B 4E
1B 59		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC H	ESC N
11. Add offset to:	Row: 1F	1B 48	1B 4E
	Col: 1F		
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	YES
		31. All attributes off:	
13. End sequence:		ESC N	
		1B 4E	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC Y SP SP		32. Cursor up:	
1B 59 20 20		^Z	
15. 10th Row, 50th Column:		1A	
ESC Y) Q		33. Cursor down:	
1B 59 29 51		^J	
16. Delay after positioning:		0A	
17. Cursor home:		34. Cursor right:	
^A		^F	
01		06	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^L	0	08	
0C		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC k	0	37. Generate all control codes:	YES
1B 6B		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:		ADDS Regent 20/25	
		ADDS Viewpoint	
		Hazeltine 1500	
23. Entire cursor line:			

Manufacturer:

Digital Microsystems

Terminal:

DMS-3/F, DMS-15, DMS-501

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

36. Foreign character sets.

42. Programmable function keys.

90 programmable keys.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Digital Microsystems	
2. Terminal:		DMS-5080, DMS-5086	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC B	ESC N
6. Left Column:	1	1B 42	1B 4E
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC R	ESC N
		1B 52	1B 4E
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC U	ESC N
ESC Y		1B 55	1B 4E
1B 59		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC H	ESC N
11. Add offset to:	Row: 1F	1B 48	1B 4E
	Col: 1F		
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	YES
		31. All attributes off:	
13. End sequence:		ESC N	
		1B 4E	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC Y SP SP		32. Cursor up:	
1B 59 20 20		^Z	
15. 10th Row, 50th Column:		1A	
ESC Y) Q		33. Cursor down:	
1B 59 29 51		^J	
16. Delay after positioning:		0A	
17. Cursor home:		34. Cursor right:	
^A		^F	
01		06	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^L	0	08	
0C		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC k	0	37. Generate all control codes:	YES
1B 6B		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:		Tektronix 4010 compatible	
		graphics.	
23. Entire cursor line:			

Manufacturer:
Terminal:

Digital Microsystems
DMS-5080, DMS-5086

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|--|
| 1. | 3. Optionally 24 or 50. |
| | 4. Optionally 132. |
| 2. | 36. Foreign character sets, user-
definable characters. |
| | 42. Programmable function keys. |
| 3. | 90 programmable keys. |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |

1. Manufacturer:	Direct Incorporated		
2. Terminal:	825--(HP)		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC & d A	ESC & d @
6. Left Column:	1	1B 26 64 41	1B 26 64 40
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC & d B	ESC & d @
		1B 26 64 42	1B 26 64 40
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC & d D	ESC & d @
ESC & a		1B 26 64 44	1B 26 64 40
1B 26 61		27. High intensity:	
9. Row or column first:	COL	ESC & d @	
10. Numeric form of row and column:		1B 26 64 40	
VARIABLE-LENGTH ASCII		28. Half intensity:	
11. Add offset to:	Row: 0	ESC & d H	ESC & d @
	Col: 0	1B 26 64 48	1B 26 64 40
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	YES
		31. All attributes off:	
13. End sequence:		ESC & d @	
R		1B 26 64 40	
52			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC & a 0 R 0 c		32. Cursor up:	
1B 26 61 30 52 30 63		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC & a 9 R 4 9 c		33. Cursor down:	
1B 26 61 39 52 34 39 63		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	ESC D	
		1B 44	
	0		
19. Cursor to end of screen:		CHARACTER SET	
ESC J	0	36. Full upper and lower ASCII:	YES
1B 4A		37. Generate all control codes:	YES
20. Beginning of screen to cursor:		38. Bell or tone sequence:	
	0	^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	YES
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:		HP2640, HP2645A	
	0	HP2622	
23. Entire cursor line:			
ESC K	0		
1B 4B			

Manufacturer:
Terminal:

Direct Incorporated
825-(HP)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. 4. Optionally 132.
42. All function keys programmable.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Direct Incorporated
2. Terminal:	828/1 (ANSI mode)

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right
 cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0
 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48

14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

18. Entire screen: DELAY
 ESC [2 J 0
 1B 5B 32 4A
 19. Cursor to end of screen: 0
 ESC [J 0
 1B 5B 4A
 20. Beginning of screen to cursor: 0
 ESC [1 J 0
 1B 5B 31 4A
 21. Cursor to end of line: 0
 ESC [K 0
 1B 5B 4B
 22. Beginning of line to cursor: 0
 ESC [1 K 0
 1B 5B 31 4B
 23. Entire cursor line: 0
 ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D
 28. Half intensity:

29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:
 DEC VT100, VT102, VT131, VT52

Manufacturer:
Terminal:

Direct Incorporated
828/1 (ANSI mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. ESC O P
1B 4F 50

3. Optionally 28.

4. Optionally 132.

42. All function keys programmable.

2. ESC O Q
1B 4F 51

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

5. ESC O T
1B 4F 54

6. ESC O U
1B 4F 55

7. ESC O V
1B 4F 56

8. ESC O W
1B 4F 57

9. ESC O X
1B 4F 58

10. ESC O Y
1B 4F 59

11. ESC O Z
1B 4F 5A

12. ESC O [
1B 4F 5B

13. ESC O \
1B 4F 5C

14. ESC O]
1B 4F 5D

15. ESC O ^
1B 4F 5E

16. ESC O 5F

1. Manufacturer:	Direct Incorporated		
2. Terminal:	828/1 (HP2622 mode)		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC & d A	ESC & d @
6. Left Column:	1	1B 26 64 41	1B 26 64 40
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC & d B	ESC & d @
		1B 26 64 42	1B 26 64 40
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC & d D	ESC & d @
ESC & a		1B 26 64 44	1B 26 64 40
1B 26 61		27. High intensity:	
9. Row or column first:	COL	ESC & d @	
10. Numeric form of row and column:		1B 26 64 40	
VARIABLE-LENGTH ASCII		28. Half intensity:	
11. Add offset to:	Row: 0	ESC & d H	ESC & d @
	Col: 0	1B 26 64 48	1B 26 64 40
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	YES
		31. All attributes off:	
13. End sequence:		ESC & d @	
R		1B 26 64 40	
52			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC & a 0 R 0 c		32. Cursor up:	
1B 26 61 30 52 30 63		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC & a 9 R 4 9 c		33. Cursor down:	
1B 26 61 39 52 34 39 63		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		ESC D	
	0	1B 44	
19. Cursor to end of screen:		CHARACTER SET	
ESC J	0	36. Full upper and lower ASCII:	YES
1B 4A		37. Generate all control codes:	YES
20. Beginning of screen to cursor:	0	38. Bell or tone sequence:	
		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	YES
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:	0	HP2640, HP2645A	
		HP2622	
23. Entire cursor line:			
ESC K	0		
1B 4B			

Manufacturer:
Terminal:

Direct Incorporated
828/1 (HP2622 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. 4. Optionally 132.
42. All function keys programmable.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Direct Incorporated
2. Terminal:	831
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC [5 m ESC [m
6. Left Column: 1	1B 5B 35 6D 1B 5B 6D
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
	ESC [7 m ESC [m
	1B 5B 37 6D 1B 5B 6D
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC [4 m ESC [m
ESC [1B 5B	1B 5B 34 6D 1B 5B 6D
9. Row or column first: ROW	27. High intensity:
10. Numeric form of row and column: VARIABLE-LENGTH ASCII	ESC [1 m ESC [m
	1B 5B 31 6D 1B 5B 6D
11. Add offset to: Row: 0	28. Half intensity:
Col: 0	
12. Separator sequence:	29. Attributes occupy position: NO
;	30. Attributes cumulative: YES
3B	31. All attributes off:
13. End sequence:	ESC [m
H	1B 5B 6D
48	
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC [1 ; 1 H	32. Cursor up:
1B 5B 31 3B 31 48	ESC [A
15. 10th Row, 50th Column:	1B 5B 41
ESC [1 0 ; 5 0 H	33. Cursor down:
1B 5B 31 30 3B 35 30 48	ESC [B
16. Delay after positioning: 0	1B 5B 42
17. Cursor home:	34. Cursor right:
ESC [H	ESC [C
1B 5B 48	1B 5B 43
	35. Cursor left:
ERASURE DELAY	ESC [D
18. Entire screen:	1B 5B 44
ESC [2 J 0	
1B 5B 32 4A	CHARACTER SET
19. Cursor to end of screen:	36. Full upper and lower ASCII: YES
ESC [J 0	37. Generate all control codes: YES
1B 5B 4A	38. Bell or tone sequence:
20. Beginning of screen to cursor:	^G
ESC [1 J 0	07
1B 5B 31 4A	
21. Cursor to end of line:	EMULATION
ESC [K 0	39. Conform to ANSI X3.64? YES
1B 5B 4B	40. Terminals Emulated:
22. Beginning of line to cursor:	DEC VT100, VT102, VT131, VT52
ESC [1 K 0	
1B 5B 31 4B	
23. Entire cursor line:	
ESC [2 K 0	
1B 5B 32 4B	

Manufacturer:
Terminal:

Direct Incorporated
831

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O P
1B 4F 50
2. ESC O Q
1B 4F 51
3. ESC O R
1B 4F 52
4. ESC O S
1B 4F 53
5. ESC O T
1B 4F 54
6. ESC O U
1B 4F 55
7. ESC O V
1B 4F 56
8. ESC O W
1B 4F 57
9. ESC O X
1B 4F 58
10. ESC O Y
1B 4F 59
11. ESC O Z
1B 4F 5A
12. ESC O [
1B 4F 5B
13. ESC O \
1B 4F 5C
14. ESC O]
1B 4F 5D
15. ESC O ^
1B 4F 5E
16. ESC O _
1B 4F 5F

NOTES

3. Optionally 28.
4. Optionally 132.
42. All function keys programmable.

1. Manufacturer:	Esprit Systems Inc.
2. Terminal:	6310
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 23	ON OFF
4. Number of columns: 79	24. Blinking:
5. Top Row: 0	
6. Left Column: 0	
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence: ESC ^Q 1B 11	27. High intensity:
9. Row or column first: COL	28. Half intensity:
10. Numeric form of row and column: BINARY	29. Attributes occupy position: NO
11. Add offset to: Row: 0 Col: 0	30. Attributes cumulative: NO
12. Separator sequence:	31. All attributes off:
13. End sequence:	
14. Cursor to top row, left column: ESC ^Q NUL NUL 1B 11 00 00	CURSOR CONTROL KEYS
15. 10th Row, 50th Column: ESC ^Q 1 ^I 1B 11 31 09	32. Cursor up: ESC ^L 1B 0C
16. Delay after positioning: 0	33. Cursor down: ESC ^K 1B 0B
17. Cursor home: ESC ^R 1B 12	34. Cursor right: ^P 10
ERASURE DELAY	35. Cursor left: ^H 08
18. Entire screen: ESC ^\ 1B 1C	CHARACTER SET
19. Cursor to end of screen: ESC ^X 1B 18	36. Full upper and lower ASCII: YES
20. Beginning of screen to cursor:	37. Generate all control codes: YES
	38. Bell or tone sequence: ^G 07
21. Cursor to end of line: ESC ^O 1B 0F	EMULATION
22. Beginning of line to cursor:	39. Conform to ANSI X3.64? NO
23. Entire cursor line:	40. Terminals Emulated: ADM 3A Regent 25 Hazeltine 1500, Esprit I, Esprit II, Esprit III, Televideo 925

Manufacturer:
Terminal:

Esprit Systems Inc.
6310

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Esprit Systems Inc.	
2. Terminal:		Esprit	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	23	ON	OFF
4. Number of columns:	79	24. Blinking:	
5. Top Row:	0		
6. Left Column:	0		
7. Printing in bottom right		25. Reverse video:	
cause scroll?	NO		
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:			
	ESC ^Q		
	1B 11		
9. Row or column first:	COL	27. High intensity:	
10. Numeric form of row and column:		ESC ^	ESC ^Y
BINARY		1B 1F	1B 19
11. Add offset to:	Row: 0	28. Half intensity:	
	Col: 0	ESC ^Y	ESC ^
		1B 19	1B 1F
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC ^Q NUL NUL		32. Cursor up:	
1B 11 00 00		ESC ^L	
15. 10th Row, 50th Column:		1B 0C	
ESC ^Q 1 ^I		33. Cursor down:	
1B 11 31 09		ESC ^K	
16. Delay after positioning:	0	1B 0B	
17. Cursor home:		34. Cursor right:	
	ESC ^R	^P	
	1B 12	10	
ERASURE		35. Cursor left:	
18. Entire screen:		^H	
	ESC ^\	08	
	1B 1C		
19. Cursor to end of screen:		CHARACTER SET	
	ESC ^X	36. Full upper and lower ASCII: YES	
	1B 18	37. Generate all control codes: YES	
20. Beginning of screen to cursor:		38. Bell or tone sequence:	
		^G	
		07	
21. Cursor to end of line:		EMULATION	
	ESC ^O	39. Conform to ANSI X3.64? NO	
	1B 0F	40. Terminals Emulated:	
22. Beginning of line to cursor:		ADM 3A	
		Regent 25	
		Hazeltine 1500	
23. Entire cursor line:			

Manufacturer:
Terminal:

Esprit Systems Inc.
Esprit

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|-------------------------|
| 1. | 11. Or 60H. |
| | 14. Or 1BH 11H 60H 60H. |
| | 15. Or 1BH 11H 91H 69H. |
| 2. | 25. Switch selectable. |
| | 26. Switch selectable. |
| | 27. Switch selectable. |
| 3. | |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |

1. Manufacturer:	Esprit Systems Inc.
2. Terminal:	Esprit II
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 23	ON OFF
4. Number of columns: 79	24. Blinking:
5. Top Row: 0	
6. Left Column: 0	
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence: ESC ^Q 1B 11	
9. Row or column first: COL	27. High intensity: ESC ^Y ESC ^Y 1B 1F 1B 19
10. Numeric form of row and column: BINARY	28. Half intensity: ESC ^Y ESC ^ 1B 19 1B 1F
11. Add offset to: Row: 0 Col: 0	29. Attributes occupy position: NO
12. Separator sequence:	30. Attributes cumulative: NO
13. End sequence:	31. All attributes off:
14. Cursor to top row, left column: ESC ^Q NUL NUL 1B 11 00 00	CURSOR CONTROL KEYS
15. 10th Row, 50th Column: ESC ^Q 1 ^I 1B 11 31 09	32. Cursor up: ESC ^L 1B 0C
16. Delay after positioning: 0	33. Cursor down: ESC ^K 1B 0B
17. Cursor home: ESC ^R 1B 12	34. Cursor right: ^P 10
ERASURE DELAY	35. Cursor left: ^H 08
18. Entire screen: ESC ^\ 1B 1C	CHARACTER SET
19. Cursor to end of screen: ESC ^X 1B 18	36. Full upper and lower ASCII: YES
20. Beginning of screen to cursor:	37. Generate all control codes: YES
	38. Bell or tone sequence: ^G 07
21. Cursor to end of line: ESC ^O 1B 0F	EMULATION
22. Beginning of line to cursor:	39. Conform to ANSI X3.64? NO
23. Entire cursor line:	40. Terminals Emulated: ADM 3A Regent 25 Hazeltine 1500

Manufacturer:

Esprit Systems Inc.

Terminal:

Esprit II

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|------------------------|
| 1. | 25. Switch selectable. |
| | 26. Switch selectable. |
| | 27. Switch selectable. |
| 2. | 31. Switch selectable. |
| 3. | |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |

1. Manufacturer:	Esprit Systems Inc.		
2. Terminal:	Esprit III		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 8	ESC G 0
ESC =		1B 47 38	1B 47 30
1B 3D		27. High intensity:	
9. Row or column first:	COL	ESC (	ESC)
10. Numeric form of row and column:		1B 28	1B 29
BINARY		28. Half intensity:	
11. Add offset to:	Row: 1F	ESC)	ESC (
	Col: 1F	1B 29	1B 28
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		0B	
ESC = Q)		33. Cursor down:	
1B 3D 51 29		^V	
16. Delay after positioning:	0	16	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		0C	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	^H	
ESC *		08	
1B 2A	0	CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC Y	0	37. Generate all control codes:	YES
1B 59		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC T	0	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:		TVI 950	
23. Entire cursor line:			

Manufacturer:
Terminal:

Esprit Systems Inc.
Esprit III

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^A @ ^M
01 40 OD

2. ^A A ^M
01 41 OD

3. ^A B ^M
01 42 OD

4. ^A C ^M
01 43 OD

5. ^A D ^M
01 44 OD

6. ^A E ^M
01 45 OD

7. ^A F ^M
01 46 OD

8. ^A G ^M
01 47 OD

9. ^A H ^M
01 48 OD

10. ^A I ^M
01 49 OD

11. ^A J ^M
01 4A OD

12.

13.

14.

15.

16.

NOTES

30. Binary add LSBs.

42. PF1-PF11 shown unshifted.

PF1-PF11 shifted shown below:

01 60 Od

01 61 Od

01 62 Od

01 63 Od

01 64 Od

01 65 Od

01 66 Od

01 67 Od

01 68 Od

01 69 Od

01 6a Od

1. Manufacturer:		Esprit Systems Inc.	
2. Terminal:		Esprit III Color	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1		
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:			
ESC =			
1B 3D			
9. Row or column first:	COL	27. High intensity:	
10. Numeric form of row and column:		ESC (	ESC)
BINARY		1B 28	1B 29
11. Add offset to:	Row: 1F	28. Half intensity:	
	Col: 1F	ESC)	ESC (
		1B 29	1B 28
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC c	
		1B 63	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		0B	
ESC = Q)		33. Cursor down:	
1B 3D 51 29		^V	
16. Delay after positioning:	0	16	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		0C	
		35. Cursor left:	
ERASURE	DELAY	^H	
18. Entire screen:		08	
ESC *	0		
1B 2A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC Y	0	37. Generate all control codes:	YES
1B 59		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC T	0	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:		TVI 950	
23. Entire cursor line:			

Manufacturer:
Terminal:

Esprit Systems Inc.
Esprit III Color

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^A @ ^M
01 40 OD
2. ^A A ^M
01 41 OD
3. ^A B ^M
01 42 OD
4. ^A C ^M
01 43 OD
5. ^A D ^M
01 44 OD
6. ^A E ^M
01 45 OD
7. ^A F ^M
01 46 OD
8. ^A G ^M
01 47 OD
9. ^A H ^M
01 48 OD
10. ^A I ^M
01 49 OD
11. ^A J ^M
01 4A OD

12.

13.

14.

15.

16.

NOTES

42. PF1-PF11 shown unshifted.
PF1-PF11 shifted shown below:
- | | | |
|----|----|----|
| 01 | 60 | Od |
| 01 | 61 | Od |
| 01 | 62 | Od |
| 01 | 63 | Od |
| 01 | 64 | Od |
| 01 | 65 | Od |
| 01 | 66 | Od |
| 01 | 67 | Od |
| 01 | 68 | Od |
| 01 | 69 | Od |
| 01 | 6a | Od |

1. Manufacturer:		Esprit Systems Inc.	
2. Terminal:		Exec 10	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	23	24. Blinking:	ON OFF
4. Number of columns:	79	ESC SP B G	ESC SP H G
5. Top Row:	0	1B 20 42 47	1B 20 48 47
6. Left Column:	0	25. Reverse video:	ESC SP I G
7. Printing in bottom right cause scroll?	PROG	1B 20 49 47	1B 20 48 47
CURSOR ADDRESSING		26. Underline:	ESC SP H I
8. Lead-in sequence:		1B 20 48 49	1B 20 48 47
ESC ^Q		27. High intensity:	ESC SP @ G
1B 11		1B 20 40 47	1B 20 48 47
9. Row or column first:	COL	28. Half intensity:	ESC SP H G
10. Numeric form of row and column:		1B 20 48 47	1B 20 40 47
BINARY		29. Attributes occupy position:	NO
11. Add offset to:	Row: 0	30. Attributes cumulative:	NO
	Col: 0	31. All attributes off:	ESC SP H G
12. Separator sequence:		1B 20 48 47	
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC ^Q NUL NUL		32. Cursor up:	ESC ^L
1B 11 00 00		1B 0C	
15. 10th Row, 50th Column:		33. Cursor down:	ESC ^K
ESC ^Q 1 ^I		1B 0B	
1B 11 31 09		34. Cursor right:	^P
16. Delay after positioning:	0	10	
17. Cursor home:		35. Cursor left:	^H
ESC ^R		08	
1B 12			
ERASURE	DELAY	CHARACTER SET	
18. Entire screen:		36. Full upper and lower ASCII:	YES
ESC ^\	0	37. Generate all control codes:	YES
1B 1C		38. Bell or tone sequence:	^G
19. Cursor to end of screen:		07	
ESC ^X	0	EMULATION	
1B 18		39. Conform to ANSI X3.64?	NO
20. Beginning of screen to cursor:		40. Terminals Emulated:	Hazeltine 1500
21. Cursor to end of line:			
ESC ^O	0		
1B 0F			
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Esprit Systems Inc.
Exec 10

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC 0 0 0 ^Y
1B 4F 30 30 19

2. ESC 0 0 1 ^Y
1B 4F 30 31 19

3. ESC 0 0 2 ^Y
1B 4F 30 32 19

4. ESC 0 0 3 ^Y
1B 4F 30 33 19

5. ESC 0 0 4 ^Y
1B 4F 30 34 19

6. ESC 0 0 5 ^Y
1B 4F 30 35 19

7. ESC 0 0 6 ^Y
1B 4F 30 36 19

8. ESC 0 0 7 ^Y
1B 4F 30 37 19

NOTES

42. F1-F8 shown unshifted.
F1-F8 shifted shown below:

1b 4f 30 38 19
1b 4f 30 39 19
1b 4f 31 30 19
1b 4f 31 31 19
1b 4f 31 32 19
1b 4f 31 33 19
1b 4f 31 34 19
1b 4f 31 35 19

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Esprit Systems Inc.
2. Terminal:	Exec 10/102

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right
 cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC Y
 1B 59
 9. Row or column first: COL
 10. Numeric form of row and column:
 BINARY
 11. Add offset to: Row: 1F
 Col: 1F
 12. Separator sequence:

13. End sequence:

14. Cursor to top row, left column:
 ESC Y SP SP
 1B 59 20 20
 15. 10th Row, 50th Column:
 ESC Y Q)
 1B 59 51 29
 16. Delay after positioning: 0
 17. Cursor home:
 ESC H
 1B 48

ERASURE

18. Entire screen: DELAY
 ESC J 2 0
 1B 4A 32
 19. Cursor to end of screen:
 ESC J 0 0
 1B 4A 30
 20. Beginning of screen to cursor:
 ESC J 1 0
 1B 4A 31
 21. Cursor to end of line:
 ESC K 0 0
 1B 4B 30
 22. Beginning of line to cursor:
 ESC K 1 0
 1B 4B 31
 23. Entire cursor line:
 ESC K 2 0
 1B 4B 32

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC m 5 ESC m 0
 1B 6D 35 1B 6D 30
 25. Reverse video:
 ESC m 7 ESC m 0
 1B 6D 37 1B 6D 30
 26. Underline:
 ESC m 4 ESC m 0
 1B 6D 34 1B 6D 30
 27. High intensity:
 ESC m 1 ESC m 0
 1B 6D 31 1B 6D 30
 28. Half intensity:
 ESC m 0 ESC m 1
 1B 6D 30 1B 6D 31
 29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC m 0
 1B 6D 30

CURSOR CONTROL KEYS

32. Cursor up:
 ESC A
 1B 41
 33. Cursor down:
 ESC B
 1B 42
 34. Cursor right:
 ESC C
 1B 43
 35. Cursor left:
 ESC D
 1B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? NO
 40. Terminals Emulated:
 DEC VT52
 DEC VT100, 101, 102, 131

Manufacturer:

Esprit Systems Inc.

Terminal:

Exec 10/102

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Esprit Systems Inc.
2. Terminal:	Exec 10/102 (ANSI mode)

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column: VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0

12. Separator sequence:

; 3B

13. End sequence:

H 48

14. Cursor to top row, left column:

ESC [1 ; 1 H 1B 5B 31 3B 31 48

15. 10th Row, 50th Column:

ESC [1 0 ; 5 0 H 1B 5B 31 30 3B 35 30 48

16. Delay after positioning: 0

17. Cursor home:

ESC [H 1B 5B 48

ERASURE

DELAY

18. Entire screen:

ESC [2 J 1B 5B 32 4A 0

19. Cursor to end of screen:

ESC [J 1B 5B 4A 0

20. Beginning of screen to cursor:

ESC [1 J 1B 5B 31 4A 0

21. Cursor to end of line:

ESC [K 1B 5B 4B 0

22. Beginning of line to cursor:

ESC [1 K 1B 5B 31 4B 0

23. Entire cursor line:

ESC [2 K 1B 5B 32 4B 0

VIDEO ATTRIBUTES

ON OFF
24. Blinking:
ESC [5 m ESC [m 1B 5B 35 6D 1B 5B 6D
25. Reverse video:
ESC [7 m ESC [m 1B 5B 37 6D 1B 5B 6D
26. Underline:
ESC [4 m ESC [m 1B 5B 34 6D 1B 5B 6D
27. High intensity:
ESC [1 m ESC [m 1B 5B 31 6D 1B 5B 6D
28. Half intensity:

29. Attributes occupy position: NO

30. Attributes cumulative: YES

31. All attributes off:
ESC [m 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A 1B 5B 41
33. Cursor down:
ESC [B 1B 5B 42
34. Cursor right:
ESC [C 1B 5B 43
35. Cursor left:
ESC [D 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G 07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:

Manufacturer:

Esprit Systems Inc.

Terminal:

Exec 10/102 (ANSI mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Esprit Systems Inc.	
2. Terminal:		Exec 10/25	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	23	24. Blinking:	ON OFF
4. Number of columns:	79	ESC SP B G	ESC SP H G
5. Top Row:	0	1B 20 42 47	1B 20 48 47
6. Left Column:	0	25. Reverse video:	
7. Printing in bottom right cause scroll?	PROG	ESC SP I G	ESC SP H G
		1B 20 49 47	1B 20 48 47
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC SP H I	ESC SP H G
ESC ^Q		1B 20 48 49	1B 20 48 47
1B 11		27. High intensity:	
9. Row or column first:	COL	ESC SP @ G	ESC SP H G
10. Numeric form of row and column:		1B 20 40 47	1B 20 48 47
BINARY		28. Half intensity:	
11. Add offset to:	Row: 0	ESC SP H G	ESC SP @ G
	Col: 0	1B 20 48 47	1B 20 40 47
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC SP H G	
		1B 20 48 47	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC ^Q NUL NUL		32. Cursor up:	
1B 11 00 00		ESC ^L	
15. 10th Row, 50th Column:		1B 0C	
ESC ^Q 1 ^I		33. Cursor down:	
1B 11 31 09		ESC ^K	
16. Delay after positioning:	0	1B 0B	
17. Cursor home:		34. Cursor right:	
ESC ^R		^P	
1B 12		10	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
ESC ^\	0	08	
1B 1C		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC ^X	0	37. Generate all control codes:	YES
1B 18		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC ^O	0	39. Conform to ANSI X3.64?	NO
1B 0F		40. Terminals Emulated:	
22. Beginning of line to cursor:		Hazeltine EXEC 80/30	
		Hazeltine EXEC 80/20	
23. Entire cursor line:			

Manufacturer:
Terminal:

Esprit Systems Inc.
Exec 10/25

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC 0 0 0 ^Y
1B 4F 30 30 19

2. ESC 0 0 1 ^Y
1B 4F 30 31 19

3. ESC 0 0 2 ^Y
1B 4F 30 32 19

4. ESC 0 0 3 ^Y
1B 4F 30 33 19

5. ESC 0 0 4 ^Y
1B 4F 30 34 19

6. ESC 0 0 5 ^Y
1B 4F 30 35 19

7. ESC 0 0 6 ^Y
1B 4F 30 36 19

8. ESC 0 0 7 ^Y
1B 4F 30 37 19

NOTES

27. Also ESC US
42. F1-F8 shown unshifted.
F1-F8 shifted shown below:
1b 4f 30 38 19
1b 4f 30 39 19
1b 4f 31 30 19
1b 4f 31 31 19
1b 4f 31 32 19
1b 4f 31 33 19
1b 4f 31 34 19
1b 4f 31 35 19

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Falco Data Products		
2. Terminal:	Fame 100		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC [5 m	ESC [m
6. Left Column:	1	1B 5B 35 6D	1B 5B 6D
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
		1B 5B 34 6D	1B 5B 6D
9. Row or column first:	ROW	27. High intensity:	
10. Numeric form of row and column:		ESC [1 m	ESC [m
VARIABLE-LENGTH ASCII		1B 5B 31 6D	1B 5B 6D
11. Add offset to:	Row: 0 Col: 0	28. Half intensity:	
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	YES
		31. All attributes off:	
13. End sequence:		ESC [m	
		1B 5B 6D	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC [1 ; 1 H		32. Cursor up:	
1B 5B 31 3B 31 48		ESC [A	
15. 10th Row, 50th Column:		1B 5B 41	
ESC [1 0 ; 5 0 H		33. Cursor down:	
1B 5B 31 30 3B 35 30 48		ESC [B	
16. Delay after positioning:	0	1B 5B 42	
17. Cursor home:		34. Cursor right:	
ESC [H		ESC [C	
1B 5B 48		1B 5B 43	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	ESC [D	
ESC [2 J	0	1B 5B 44	
1B 5B 32 4A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC [J	0	37. Generate all control codes:	YES
1B 5B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
ESC [1 J	0	07	
1B 5B 31 4A		EMULATION	
21. Cursor to end of line:		39. Conform to ANSI X3.64?	YES
ESC [K	0	40. Terminals Emulated:	
1B 5B 4B		DEC VT100, VT102	
22. Beginning of line to cursor:		DEC VT52	
ESC [1 K	0		
1B 5B 31 4B			
23. Entire cursor line:			
ESC [2 K	0		
1B 5B 32 4B			

Manufacturer:

Falco Data Products

Terminal:

Fame 100

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O P
 1B 4F 50

2. ESC O Q
 1B 4F 51

3. ESC O R
 1B 4F 52

4. ESC O S
 1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Falco Data Products		
2. Terminal:	Fame 78		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1		
7. Printing in bottom right cause scroll?	NO	25. Reverse video:	
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		27. High intensity:	
ESC F			
1B 46			
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC d @	ESC d A
11. Add offset to:	Row: 1F	1B 64 40	1B 64 41
	Col: 1F	29. Attributes occupy position:	YES
12. Separator sequence:		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC F SP SP		32. Cursor up:	
1B 46 20 20		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC F) Q		33. Cursor down:	
1B 46 29 51		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		ESC D	
ESC E	0	1B 44	
1B 45		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J	0	37. Generate all control codes:	YES
1B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	YES
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:		Beehive DM78	
		DEC VT100	
23. Entire cursor line:			

Manufacturer:

Falco Data Products

Terminal:

Fame 78

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. 24 function keys.

1. ^B ESC p
02 1B 70

2. ^B ESC q
02 1B 71

3. ^B ESC r
02 1B 72

4. ^B ESC s
02 1B 73

5. ^B ESC t
02 1B 74

6. ^B ESC u
02 1B 75

7. ^B ESC v
02 1B 76

8. ^B ESC w
02 1B 77

9. ^B ESC x
02 1B 78

10. ^B ESC y
02 1B 79

11. ^B ESC z
02 1B 7A

12. ^B ESC {
02 1B 7B

13. ^B ESC |
02 1B 7C

14. ^B ESC }
02 1B 7D

15. ^B ESC ~
02 1B 7E

16. ^B ESC DEL
02 1B 7F

1. Manufacturer:	Falco Data Products
2. Terminal:	Fame III

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [
1B 5B
9. Row or column first: ROW
10. Numeric form of row and column:
VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0
Col: 0
12. Separator sequence:
;
3B
13. End sequence:
H
48
14. Cursor to top row, left column:
ESC [1 ; 1 H
1B 5B 31 3B 31 48
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 H
1B 5B 31 30 3B 35 30 48
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE

18. Entire screen: DELAY
ESC [2 J 0
1B 5B 32 4A
19. Cursor to end of screen: 0
ESC [J 0
1B 5B 4A
20. Beginning of screen to cursor: 0
ESC [1 J 0
1B 5B 31 4A
21. Cursor to end of line: 0
ESC [K 0
1B 5B 4B
22. Beginning of line to cursor: 0
ESC [1 K 0
1B 5B 31 4B
23. Entire cursor line: 0
ESC [2 K 0
1B 5B 32 4B

VIDEO ATTRIBUTES

- ON OFF
24. Blinking:
25. Reverse video:
26. Underline:
27. High intensity:
ESC (ESC)
1B 28 1B 29
28. Half intensity:
ESC) ESC (
1B 29 1B 28
29. Attributes occupy position: NO
30. Attributes cumulative: YES
31. All attributes off:

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:

Manufacturer:
Terminal:

Falco Data Products
Fame III

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC a
1B 61

2. ESC b
1B 62

3. ESC c
1B 63

4. ESC d
1B 64

5. ESC e
1B 65

6. ESC f
1B 66

7. ESC g
1B 67

8. ESC h
1B 68

9. ESC i
1B 69

10. ESC j
1B 6A

11. ESC k
1B 6B

12. ESC l
1B 6C

13.

14.

15.

16.

1. Manufacturer:		Falco Data Products	
2. Terminal:		TS 2624-B	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	0	ESC & d A	ESC & d @
6. Left Column:	0	1B 26 64 41	1B 26 64 40
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC & d B	ESC & d @
		1B 26 64 42	1B 26 64 40
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC & d D	ESC & d @
	ESC & a	1B 26 64 44	1B 26 64 40
	1B 26 61	27. High intensity:	
9. Row or column first:	COL		
10. Numeric form of row and column:		28. Half intensity:	
	VARIABLE-LENGTH ASCII	ESC & d H	ESC & d @
11. Add offset to:	Row: 0	1B 26 64 48	1B 26 64 40
	Col: 0	29. Attributes occupy position:	NO
12. Separator sequence:		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC & d @	
		1B 26 64 40	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
	ESC & a 0 c 0 R	32. Cursor up:	
	1B 26 61 30 63 30 52	ESC A	
		1B 41	
15. 10th Row, 50th Column:		33. Cursor down:	
	ESC & a 4 9 c 9 R	ESC B	
	1B 26 61 34 39 63 39 52	1B 42	
16. Delay after positioning:	0	34. Cursor right:	
17. Cursor home:		ESC C	
	ESC h	1B 43	
	1B 68	35. Cursor left:	
		ESC D	
		1B 44	
ERASURE	DELAY	CHARACTER SET	
18. Entire screen:		36. Full upper and lower ASCII:	YES
	ESC h ESC J	37. Generate all control codes:	YES
	1B 68 1B 4A	38. Bell or tone sequence:	
19. Cursor to end of screen:		^G	
	ESC J	07	
	1B 4A		
20. Beginning of screen to cursor:		EMULATION	
		39. Conform to ANSI X3.64?	NO
21. Cursor to end of line:		40. Terminals Emulated:	
	ESC K		
	1B 4B		
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Falco Data Products
TS 2624-B

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC p
1B 70
2. ESC q
1B 71
3. ESC r
1B 72
4. ESC s
1B 73
5. ESC t
1B 74
6. ESC u
1B 75
7. ESC v
1B 76
8. ESC w
1B 77

NOTES

9. Either row or column first is acceptable, depending on sequence sent. See notes 12, 13, 14, and 15.
12. To send row first, use r (72H).
13. To send row first, use C (43H).
14. To send row first:
ESC & a 0 r 0 C
1B 26 61 30 72 30 43
15. To send row first:
ESC & a 9 r 4 9 C
1B 26 61 39 72 34 39 43
23. To delete entire cursor line:
ESC & a 0 C ESC K
1B 26 61 30 43 1B 4B
30. Combinations preceded by ESC & d:
@ABCDEFGHIJKLMNOS
Half-intensity XXXXXXXX
Underline XXXX XXXX
Reverse XX XX XX XX
Blinking X X X X X X X X
Security X
End enhancement X
Example: Reverse, blinking and underline:
ESC & d G
1B 26 64 47
36. Three complete 128-character sets (base, line drawing and mathematics) are available standard. The 8-bit extended ASCII code is used to generate an additional 128-character foreign set.
ESC) @ selects base set
ESC) A selects math set
ESC) B selects line drawing set
42. Sequences shown are default. All 8 function keys are programmable.

- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

1. Manufacturer:	Falco Data Products
2. Terminal:	TS-1

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
ESC =
1B 3D
9. Row or column first: ROW
10. Numeric form of row and column: BINARY
11. Add offset to: Row: 1F
Col: 1F
12. Separator sequence:
13. End sequence:

14. Cursor to top row, left column:
ESC = SP SP
1B 3D 20 20
15. 10th Row, 50th Column:
ESC =) Q
1B 3D 29 51
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE DELAY

18. Entire screen:
ESC * 0
1B 2A
19. Cursor to end of screen:
ESC Y 0
1B 59
20. Beginning of screen to cursor:
21. Cursor to end of line:
ESC t 0
1B 74
22. Beginning of line to cursor:
23. Entire cursor line:

VIDEO ATTRIBUTES

ON OFF
24. Blinking:
ESC g 2 ESC g 0
1B 67 32 1B 67 30
25. Reverse video:
ESC g 4 ESC g 0
1B 67 34 1B 67 30
26. Underline:
ESC g 1 ESC g 0
1B 67 31 1B 67 30
27. High intensity:
28. Half intensity:
ESC (ESC)
1B 28 1B 29
29. Attributes occupy position: NO
30. Attributes cumulative: NO
31. All attributes off:

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:
DEC VT100
Lear Diegler ADM-31

Manufacturer:

Falco Data Products

Terminal:

TS-1

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

30. See manual for combination
attributes.

2.

42. 12 programmable function keys.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Falco Data Products
2. Terminal:	TS-100/132

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column: VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0

12. Separator sequence:

; 3B

13. End sequence:

H 48

14. Cursor to top row, left column:

ESC [1 ; 1 H
 1B 5B 31 3B 31 48

15. 10th Row, 50th Column:

ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48

16. Delay after positioning: 0

17. Cursor home:

ESC [H
 1B 5B 48

ERASURE

DELAY

18. Entire screen: 0
 ESC [2 J
 1B 5B 32 4A

19. Cursor to end of screen: 0
 ESC [J
 1B 5B 4A

20. Beginning of screen to cursor: 0
 ESC [1 J
 1B 5B 31 4A

21. Cursor to end of line: 0
 ESC [K
 1B 5B 4B

22. Beginning of line to cursor: 0
 ESC [1 K
 1B 5B 31 4B

23. Entire cursor line: 0
 ESC [2 K
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D
 28. Half intensity:

29. Attributes occupy position: NO

30. Attributes cumulative: YES

31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41

33. Cursor down:
 ESC [B
 1B 5B 42

34. Cursor right:
 ESC [C
 1B 5B 43

35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:
 DEC VT100, VT102
 DEC VT52

Manufacturer:

Falco Data Products

Terminal:

TS-100/132

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O P
 1B 4F 50

2. ESC O Q
 1B 4F 51

3. ESC O R
 1B 4F 52

4. ESC O S
 1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Falco Data Products		
2. Terminal:	TS-42		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 1	ESC G 0
ESC =		1B 47 31	1B 47 30
1B 3D		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY			
11. Add offset to:	Row: 1F		
	Col: 1F		
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^J	
16. Delay after positioning:	0	OA	
17. Cursor home:		34. Cursor right:	
		^L	
		OC	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	^H	
ESC *	0	OB	
1B 2A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC y	0	37. Generate all control codes:	YES
1B 79		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC t	0	39. Conform to ANSI X3.64?	NO
1B 74		40. Terminals Emulated:	
22. Beginning of line to cursor:		Lear Siegler ADM-42	
23. Entire cursor line:			

Manufacturer:
Terminal:

Falco Data Products
TS-42

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. Function keys are programmable.

1. ^A @ ^M
01 40 OD
2. ^A A ^M
01 41 OD
3. ^A B ^M
01 42 OD
4. ^A C ^M
01 43 OD
5. ^A D ^M
01 44 OD
6. ^A E ^M
01 45 OD
7. ^A F ^M
01 46 OD
8. ^A G ^M
01 47 OD
9. ^A H ^M
01 48 OD
10. ^A I ^M
01 49 OD
11. ^A J ^M
01 4A OD
12. ^A K ^M
01 4B OD
13. ^A L ^M
01 4C OD
14. ^A M ^M
01 4D OD
15. ^A N ^M
01 4E OD
16. ^A O ^M
01 4F OD

1. Manufacturer:	FMG Corporation
2. Terminal:	FMG CP/M for TRS80 Model II
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	25. Reverse video:
6. Left Column: 1	ESC ^W ESC ^X
7. Printing in bottom right cause scroll? YES	1B 17 1B 18
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	27. High intensity:
ESC ^Q	28. Half intensity:
1B 11	29. Attributes occupy position: NO
9. Row or column first: COL	30. Attributes cumulative: NO
10. Numeric form of row and column: BINARY	31. All attributes off:
11. Add offset to: Row: 27	ESC ^X
Col: 27	1B 18
12. Separator sequence:	CURSOR CONTROL KEYS
13. End sequence:	32. Cursor up:
14. Cursor to top row, left column:	^^
ESC ^Q ((	1E
1B 11 28 28	33. Cursor down:
15. 10th Row, 50th Column:	^
ESC ^Q 1 Y	1F
1B 11 31 59	34. Cursor right:
16. Delay after positioning: 0	^]
17. Cursor home:	1D
ESC ^R	35. Cursor left:
1B 12	^\ 1C
ERASURE DELAY	CHARACTER SET
18. Entire screen:	36. Full upper and lower ASCII: YES
ESC ^S	37. Generate all control codes: YES
1B 13	38. Bell or tone sequence:
19. Cursor to end of screen:	EMULATION
20. Beginning of screen to cursor:	39. Conform to ANSI X3.64? NO
21. Cursor to end of line:	40. Terminals Emulated:
ESC ^O	
1B OF	
22. Beginning of line to cursor:	
23. Entire cursor line:	

Manufacturer:
Terminal:

FMG Corporation
FMG CP/M for TRS80 Model II

41. Information provided by:
PUBLISHER

42. PROGRAM FUNCTION KEYS

NOTES

1. This is an implementation of CP/M for the Radio Shack TRS-80 Model II. FMG Corporation is not the manufacturer of the hardware.
- 2.

3. At publication FMG Corporation was no longer in operation. Data was obtained by the publisher from documentation.
- 4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Franklin Computer Corp.
2. Terminal:		Ace Display

SCREEN LAYOUT		VIDEO ATTRIBUTES
3. Number of rows:	24	ON OFF
4. Number of columns:	80	24. Blinking:
5. Top Row:	1	
6. Left Column:	1	
7. Printing in bottom right cause scroll?	YES	25. Reverse video: ^O ^N OF OE
CURSOR ADDRESSING		26. Underline:
8. Lead-in sequence:	^^	
	1E	27. High intensity:
9. Row or column first:	COL	
10. Numeric form of row and column:	BINARY	28. Half intensity:
11. Add offset to:	Row: 1F Col: 1F	
12. Separator sequence:		29. Attributes occupy position: NO
		30. Attributes cumulative: NO
13. End sequence:		31. All attributes off: ^Z 0 1A 30
14. Cursor to top row, left column:	^^ SP SP 1E 20 20	CURSOR CONTROL KEYS
15. 10th Row, 50th Column:	^^ Q) 1E 51 29	32. Cursor up:
16. Delay after positioning:	0	
17. Cursor home:	^Y 19	33. Cursor down: ^J ^A
ERASURE DELAY		34. Cursor right: ^U 15
18. Entire screen:	^L 0 OC	35. Cursor left: ^H 08
19. Cursor to end of screen:	^K 0 OB	CHARACTER SET
20. Beginning of screen to cursor:		36. Full upper and lower ASCII: YES
		37. Generate all control codes: YES
21. Cursor to end of line:	^J 0 1D	38. Bell or tone sequence: ^G 07
22. Beginning of line to cursor:		EMULATION
		39. Conform to ANSI X3.64? NO
23. Entire cursor line:		40. Terminals Emulated:

Manufacturer:

Franklin Computer Corp.

Terminal:

Ace Display

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	General Terminal Corporation
2. Terminal:	SW 10 (ANSI mode)

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0
 Col: 0

12. Separator sequence:

; 3B
 H 48

14. Cursor to top row, left column:

ESC [1 ; 1 H
 1B 5B 31 3B 31 48

15. 10th Row, 50th Column:

ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48

16. Delay after positioning: 0

17. Cursor home:

ESC [H
 1B 5B 48

ERASURE

DELAY

18. Entire screen:
 ESC [2 J 0
 1B 5B 32 4A

19. Cursor to end of screen:
 ESC [J 0
 1B 5B 4A

20. Beginning of screen to cursor:
 ESC [1 J 0
 1B 5B 31 4A

21. Cursor to end of line:
 ESC [K 0
 1B 5B 4B

22. Beginning of line to cursor:
 ESC [1 K 0
 1B 5B 31 4B

23. Entire cursor line:
 ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF

24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D

25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D

26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D

27. High intensity:
 ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D

28. Half intensity:

29. Attributes occupy position: NO

30. Attributes cumulative: YES

31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41

33. Cursor down:
 ESC [B
 1B 5B 42

34. Cursor right:
 ESC [C
 1B 5B 43

35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES

37. Generate all control codes: YES

38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES

40. Terminals Emulated:
 DEC VT100

Manufacturer:
Terminal:

General Terminal Corporation
SW 10 (ANSI mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. 12 programmable function keys,
each capable of holding up to 20
user-defined characters.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	General Terminal Corporation		
2. Terminal:	SW 10 (VT52 mode)		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1		
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:			
	ESC Y		
	1B 59	27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
	BINARY		
11. Add offset to:	Row: 1F		
	Col: 1F		
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
	ESC Y SP SP	32. Cursor up:	
	1B 59 20 20		ESC A
15. 10th Row, 50th Column:			1B 41
	ESC Y) Q	33. Cursor down:	
	1B 59 29 51		ESC B
16. Delay after positioning:	0		1B 42
17. Cursor home:		34. Cursor right:	
	ESC H		ESC C
	1B 48		1B 43
ERASURE		35. Cursor left:	
	DELAY		ESC D
18. Entire screen:			1B 44
	ESC H ESC J	CHARACTER SET	
	1B 48 1B 4A	36. Full upper and lower ASCII:	YES
19. Cursor to end of screen:		37. Generate all control codes:	YES
	ESC J	38. Bell or tone sequence:	
	1B 4A		^G
20. Beginning of screen to cursor:			07
21. Cursor to end of line:		EMULATION	
	ESC K	39. Conform to ANSI X3.64?	NO
	1B 4B	40. Terminals Emulated:	
22. Beginning of line to cursor:			DEC VT52
23. Entire cursor line:			

Manufacturer:

General Terminal Corporation

Terminal:

SW 10 (VT52 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. 12 programmable function keys,
each capable of holding up to
20 user-defined characters.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	General Terminal Corporation		
2. Terminal:	SW 80		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC k ^D	ESC a
6. Left Column:	1	1B 6B 04	1B 61
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC k ^B	ESC a
		1B 6B 02	1B 61
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC k ^P	ESC a
ESC =		1B 6B 10	1B 61
1B 3D		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC k ^A	ESC a
11. Add offset to:	Row: 1F	1B 6B 01	1B 61
	Col: 1F	29. Attributes occupy position:	NO
12. Separator sequence:		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC a	
		1B 61	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	ESC D	
ESC H ESC J	0	1B 44	
1B 48 1B 4A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J	0	37. Generate all control codes:	YES
1B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

General Terminal Corporation
SW 80

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|--|
| 1. | 3. 25th status line. |
| 2. | 30. Additional attribute combinations available. |
| 3. | 36. 96 ASCII characters, 32 systems characters, 96 graphic and special characters. |
| 4. | 42. 12 programmable function keys plus 12 in shift mode, each capable of storing up to 254 characters. |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |

1. Manufacturer:	GraphOn Corporation
2. Terminal:	GO-100

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right
 cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0
 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48

14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

18. Entire screen: DELAY
 ESC [2 J 0
 1B 5B 32 4A
 19. Cursor to end of screen: 0
 ESC [J 0
 1B 5B 4A
 20. Beginning of screen to cursor: 0
 ESC [1 J 0
 1B 5B 31 4A
 21. Cursor to end of line: 0
 ESC [K 0
 1B 5B 4B
 22. Beginning of line to cursor: 0
 ESC [1 K 0
 1B 5B 31 4B
 23. Entire cursor line: 0
 ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D
 28. Half intensity:
 29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:
 DEC VT100
 DEC VT52

Manufacturer:
Terminal:

GraphOn Corporation
GO-100

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O P
1B 4F 50

2. ESC O Q
1B 4F 51

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

42. In addition to four program function keys shown (PF1-PF4), terminal supports 8 programmable function keys (F1-F8), in shift and unshift mode, for a total of 16 programmable function keys which may be set by the user or host.

Additional editing functions:

Insert line	ESC [L
Delete line	ESC [M
Delete character	ESC [P
Enter char insert mode	ESC [4 h
Exit char insert mode	ESC [4 l

1. Manufacturer:	GraphOn Corporation
2. Terminal:	G0-140

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column: VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0
12. Separator sequence:
;
3B
13. End sequence:
H
48
14. Cursor to top row, left column:
ESC [1 ; 1 H
1B 5B 31 3B 31 48
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 H
1B 5B 31 30 3B 35 30 48
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE

18. Entire screen: DELAY
ESC [2 J 0
1B 5B 32 4A
19. Cursor to end of screen:
ESC [J 0
1B 5B 4A
20. Beginning of screen to cursor:
ESC [1 J 0
1B 5B 31 4A
21. Cursor to end of line:
ESC [K 0
1B 5B 4B
22. Beginning of line to cursor:
ESC [1 K 0
1B 5B 31 4B
23. Entire cursor line:
ESC [2 K 0
1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
24. Blinking:
ESC [5 m ESC [m
1B 5B 35 6D 1B 5B 6D
25. Reverse video:
ESC [7 m ESC [m
1B 5B 37 6D 1B 5B 6D
26. Underline:
ESC [4 m ESC [m
1B 5B 34 6D 1B 5B 6D
27. High intensity:
ESC [1 m ESC [m
1B 5B 31 6D 1B 5B 6D
28. Half intensity:
29. Attributes occupy position: NO
30. Attributes cumulative: YES
31. All attributes off:
ESC [m
1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:
DEC VT100
DEC VT52

Manufacturer:
Terminal:

GraphOn Corporation
GO-140

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O P
1B 4F 50

2. ESC O Q
1B 4F 51

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

36. Also graphics mode.

42. In addition to four program function keys shown (PF1-PF4), terminal supports 8 programmable function keys (F1-F8), in shift and unshift mode, for a total of 16 programmable function keys which may be set by the user or host.

Additional editing functions:

Insert line	ESC [L
Delete line	ESC [M
Delete character	ESC [P
Enter char insert mode	ESC [4 h
Exit char insert mode	ESC [4 l

1. Manufacturer:	Hewlett-Packard
2. Terminal:	HP 262X, 264X and HP 2382A

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 0
 6. Left Column: 0
 7. Printing in bottom right cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC & a
 1B 26 61
 9. Row or column first: COL
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 13. End sequence:

14. Cursor to top row, left column:
 ESC & a 0 c 0 R
 1B 26 61 30 63 30 52
 15. 10th Row, 50th Column:
 ESC & a 4 9 c 9 R
 1B 26 61 34 39 63 39 52
 16. Delay after positioning: 0
 17. Cursor home:
 ESC h
 1B 68

ERASURE

18. Entire screen: DELAY
 ESC h ESC J 0
 1B 68 1B 4A
 19. Cursor to end of screen:
 ESC J 0
 1B 4A
 20. Beginning of screen to cursor:

21. Cursor to end of line:
 ESC K 0
 1B 4B
 22. Beginning of line to cursor:

23. Entire cursor line:

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC & d A ESC & d @
 1B 26 64 41 1B 26 64 40
 25. Reverse video:
 ESC & d B ESC & d @
 1B 26 64 42 1B 26 64 40
 26. Underline:
 ESC & d D ESC & d @
 1B 26 64 44 1B 26 64 40
 27. High intensity:
 28. Half intensity:
 ESC & d H ESC & d @
 1B 26 64 48 1B 26 64 40
 29. Attributes occupy position: NO
 30. Attributes cumulative: NO
 31. All attributes off:
 ESC & d @
 1B 26 64 40

CURSOR CONTROL KEYS

32. Cursor up:
 ESC A
 1B 41
 33. Cursor down:
 ESC B
 1B 42
 34. Cursor right:
 ESC C
 1B 43
 35. Cursor left:
 ESC D
 1B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? NO
 40. Terminals Emulated:

Manufacturer:
Terminal:

Hewlett-Packard
HP 262X, 264X and HP 2382A

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC p
1B 70

2. ESC q
1B 71

3. ESC r
1B 72

4. ESC s
1B 73

5. ESC t
1B 74

6. ESC u
1B 75

7. ESC v
1B 76

8. ESC w
1B 77

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

2. This data applies to the alpha-numeric capabilities of the following HP terminals:

2621B	2622A	2623A	2624B
2626A	2645A	2648A	2647F
2382A			

9. Either row or column first is acceptable, depending on sequence sent. See notes 12, 13, 14, and 15.

12. To send row first, use r (72H).

13. To send row first, use C (43H).

14. To send row first:

ESC &	a	0	r	0	C
1B	26	61	30	72	30 43

15. To send row first:

ESC &	a	9	r	4	9	C
1B	26	61	39	72	34	39 43

23. To delete entire cursor line:

ESC &	a	0	C	ESC	K
1B	26	61	30	43	1B 4B

30. Combinations preceeded by ESC & d:

@ABCDEFGHIJKLMNOS

Half-intensity XXXXXXXX

Underline XXXX XXXX

Reverse XX XX XX XX

Blinking X X X X X X X X

Security X

End enhancement X

Example: Reverse, blinking and underline:

ESC &	d	G
1B	26	64 47

36. Three complete 128-character sets (base, line drawing and mathematics) are available standard. The 8-bit extended ASCII code is used to generate an additional 128-character foreign set.

ESC) @ selects base set

ESC) A selects math set

ESC) B selects line drawing set

42. Sequences shown are default. All 8 function keys are programmable.

1. Manufacturer:	Hewlett-Packard		
2. Terminal:	HP-150		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	0	ESC & d A	ESC & d @
6. Left Column:	0	1B 26 64 41	1B 26 64 40
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC & d B	ESC & d @
		1B 26 64 42	1B 26 64 40
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC & d D	ESC & d @
	ESC & a	1B 26 64 44	1B 26 64 40
	1B 26 61	27. High intensity:	
9. Row or column first:	COL		
10. Numeric form of row and column:		28. Half intensity:	
VARIABLE-LENGTH ASCII		ESC & d H	ESC & d @
11. Add offset to:	Row: 0	1B 26 64 48	1B 26 64 40
	Col: 0	29. Attributes occupy position:	NO
12. Separator sequence:		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC & d @	
		1B 26 64 40	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC & a 0 c 0 R		32. Cursor up:	
1B 26 61 30 63 30 52		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC & a 4 9 c 9 R		33. Cursor down:	
1B 26 61 34 39 63 39 52		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC h		ESC C	
1B 68		1B 43	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		ESC D	
ESC h ESC J	0	1B 44	
1B 68 1B 4A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J	0	37. Generate all control codes:	YES
1B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Hewlett-Packard
HP-150

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC p
1B 70

2. ESC q
1B 71

3. ESC r
1B 72

4. ESC s
1B 73

5. ESC t
1B 74

6. ESC u
1B 75

7. ESC v
1B 76

8. ESC w
1B 77

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

9. Either row or column first is acceptable, depending on sequence sent. See notes 12, 13, 14, and 15.

12. To send row first, use r (72H).

13. To send row first, use C (43H).

14. To send row first:

ESC & a 0 r 0 C
1B 26 61 30 72 30 43

15. To send row first:

ESC & a 9 r 4 9 C
1B 26 61 39 72 34 39 43

23. To delete entire cursor line:

ESC & a 0 C ESC K
1B 26 61 30 43 1B 4B

30. Combinations preceded by ESC & d:

@ABCDEFGHIJKLMNOS

Half-intensity XXXXXXXX

Underline XXXX XXXX

Reverse XX XX XX XX

Blinking X X X X X X X X

Security X

End enhancement X

Example: Reverse, blinking and

underline:

ESC & d G

1B 26 64 47

36. Three complete 128-character sets (base, line drawing and mathematics) are available standard. The 8-bit extended ASCII code is used to generate an additional 128-character foreign set.

ESC) @ selects base set

ESC) A selects math set

ESC) B selects line drawing set

The HP-150 also emulates certain features of the Tektronics 4010 and 4014 graphics terminals.

37. Foreign language keyboards are available.

42. Sequences shown are default. All 8 function keys are programmable.

1. Manufacturer:		Honeywell Information Systems	
2. Terminal:		VIP 7201	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	24. Blinking:	ON OFF
4. Number of columns:	80	ESC 4	ESC 3
5. Top Row:	1	1B 34	1B 33
6. Left Column:	1	25. Reverse video:	ESC 3
7. Printing in bottom right cause scroll?	YES	ESC 4	ESC 3
		1B 34	1B 33
CURSOR ADDRESSING		26. Underline:	ESC 3
8. Lead-in sequence:		ESC 4	ESC 3
ESC f		1B 34	1B 33
1B 66		27. High intensity:	ESC 3
9. Row or column first:	ROW	ESC 4	ESC 3
10. Numeric form of row and column:		1B 34	1B 33
BINARY		28. Half intensity:	ESC 3
11. Add offset to:	Row: 1F	ESC 4	ESC 3
	Col: 1F	1B 34	1B 33
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	YES
13. End sequence:		31. All attributes off:	ESC 3
			1B 33
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC f SP SP		32. Cursor up:	ESC A
1B 66 20 20			1B 41
15. 10th Row, 50th Column:		33. Cursor down:	ESC B
ESC f) Q			1B 42
1B 66 29 51		34. Cursor right:	ESC C
16. Delay after positioning:	0		1B 43
17. Cursor home:		35. Cursor left:	ESC D
ESC H			1B 44
1B 48		CHARACTER SET	
ERASURE	DELAY	36. Full upper and lower ASCII:	YES
18. Entire screen:		37. Generate all control codes:	YES
ESC `	0	38. Bell or tone sequence:	^G
1B 60			07
19. Cursor to end of screen:		EMULATION	
ESC J	0	39. Conform to ANSI X3.64?	NO
1B 4A		40. Terminals Emulated:	Honeywell VIP 7200, VIP 7205
20. Beginning of screen to cursor:			
21. Cursor to end of line:			
ESC K	0		
1B 4B			
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:

Honeywell Information Systems

Terminal:

VIP 7201

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC 0
1B 30

2. ESC 2
1B 32

3. ESC 6
1B 36

4. ESC 8
1B 38

5. ESC :
1B 3A

6. ESC <
1B 3C

7. ESC >
1B 3E

8.

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

24.-28. Operator selects video
attributes by terminal set-up
instruction.

42. Function keys shown are unshift.
Shifted function keys are:

F1 ESC 1

F2 ESC 5

F3 ESC 7

F4 ESC 9

F5 ESC ;

F6 ESC =

F7 ESC ?

1. Manufacturer:	Honeywell Information Systems				
2. Terminal:	VIP 7301				
SCREEN LAYOUT			VIDEO ATTRIBUTES		
3. Number of rows:	24		ON		OFF
4. Number of columns:	80		24. Blinking:		
5. Top Row:	1		ESC s B	ESC s R	
6. Left Column:	1		1B 73 42	1B 73 52	
7. Printing in bottom right cause scroll?	YES		25. Reverse video:		
			ESC s I	ESC s R	
			1B 73 49	1B 73 52	
CURSOR ADDRESSING			26. Underline:		
8. Lead-in sequence:			ESC s	ESC s R	
	ESC f		1B 73 5F	1B 73 52	
	1B 66		27. High intensity:		
9. Row or column first:	ROW		ESC s	ESC s R	
10. Numeric form of row and column:			1B 73	1B 73 52	
	BINARY		28. Half intensity:		
11. Add offset to:	Row: 1F		ESC s L	ESC s R	
	Col: 1F		1B 73 4C	1B 73 52	
12. Separator sequence:			29. Attributes occupy position:	NO	
			30. Attributes cumulative:	YES	
13. End sequence:			31. All attributes off:		
			ESC s R		
			1B 73 52		
14. Cursor to top row, left column:			CURSOR CONTROL KEYS		
ESC f SP SP			32. Cursor up:		
1B 66 20 20			ESC A		
15. 10th Row, 50th Column:			1B 41		
ESC f) Q			33. Cursor down:		
1B 66 29 51			ESC B		
16. Delay after positioning:	0		1B 42		
17. Cursor home:			34. Cursor right:		
ESC H			ESC C		
1B 48			1B 43		
ERASURE			35. Cursor left:		
18. Entire screen:	DELAY		ESC D		
ESC ^		0	1B 44		
1B 60			CHARACTER SET		
19. Cursor to end of screen:			36. Full upper and lower ASCII:	YES	
ESC J		0	37. Generate all control codes:	YES	
1B 4A			38. Bell or tone sequence:		
20. Beginning of screen to cursor:			^G		
			07		
21. Cursor to end of line:			EMULATION		
ESC K		0	39. Conform to ANSI X3.64?	NO	
1B 4B			40. Terminals Emulated:		
22. Beginning of line to cursor:					
23. Entire cursor line:					

Manufacturer:
Terminal:

Honeywell Information Systems
VIP 7301

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC 0
1B 30
2. ESC 2
1B 32
3. ESC 6
1B 36
4. ESC 8
1B 38
5. ESC :
1B 3A
6. ESC <
1B 3C
7. ESC >
1B 3E
8. ESC P
1B 50
9. ESC R
1B 52
10. ESC T
1B 54
11. ESC \
1B 5C
12. ESC ^
1B 5E
- 13.
- 14.
- 15.
- 16.

NOTES

42. Function keys are shown unshift.
Shifted function keys are:

PF1	ESC 1
PF2	ESC 5
PF3	ESC 7
PF4	ESC 9
PF5	ESC ;
PF6	ESC =
PF7	ESC ?
PF8	ESC Q
PF9	ESC S
PF10	ESC V
PF11	ESC]
PF12	ESC _

1. Manufacturer:	Human Designed Systems, Inc.		
2. Terminal:	Concept AVT Series		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC [5 m	ESC [m
6. Left Column:	1	1B 5B 35 6D	1B 5B 6D
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
ESC [		1B 5B 34 6D	1B 5B 6D
1B 5B		27. High intensity:	
9. Row or column first:	ROW	ESC [1 m	ESC [m
10. Numeric form of row and column:		1B 5B 31 6D	1B 5B 6D
VARIABLE-LENGTH ASCII		28. Half intensity:	
11. Add offset to:	Row: 0 Col: 0		
12. Separator sequence:		29. Attributes occupy position:	NO
;		30. Attributes cumulative:	YES
3B		31. All attributes off:	
13. End sequence:		ESC [m	
H		1B 5B 6D	
48			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC [1 ; 1 H		32. Cursor up:	
1B 5B 31 3B 31 48		ESC [A	
15. 10th Row, 50th Column:		1B 5B 41	
ESC [1 0 ; 5 0 H		33. Cursor down:	
1B 5B 31 30 3B 35 30 48		ESC [B	
16. Delay after positioning:	0	1B 5B 42	
17. Cursor home:		34. Cursor right:	
ESC [H		ESC [C	
1B 5B 48		1B 5B 43	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	ESC [D	
ESC [2 J	38	1B 5B 44	
1B 5B 32 4A			
19. Cursor to end of screen:		CHARACTER SET	
ESC [J	96	36. Full upper and lower ASCII:	YES
1B 5B 4A		37. Generate all control codes:	YES
20. Beginning of screen to cursor:		38. Bell or tone sequence:	
ESC [1 J	96	^G	
1B 5B 31 4A		07	
21. Cursor to end of line:		EMULATION	
ESC [K	6	39. Conform to ANSI X3.64?	YES
1B 5B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:		DEC VT100, DEC VT52	
ESC [1 K	6	Tektronix 4010/4013 (GVT+ and	
1B 5B 31 4B		GVT-APL+)	
23. Entire cursor line:			
ESC [2 K	6		
1B 5B 32 4B			

Manufacturer:
Terminal:

Human Designed Systems, Inc.
Concept AVT Series

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1.	^\	0	0	1	^M
	1C	30	30	31	OD
2.	^\	0	0	2	^M
	1C	30	30	32	OD
3.	^\	0	0	3	^M
	1C	30	30	33	OD
4.	^\	0	0	4	^M
	1C	30	30	34	OD
5.	^\	0	0	5	^M
	1C	30	30	35	OD
6.	^\	0	0	6	^M
	1C	30	30	36	OD
7.	^\	0	0	7	^M
	1C	30	30	37	OD
8.	^\	0	0	8	^M
	1C	30	30	38	OD
9.	^\	0	0	9	^M
	1C	30	30	39	OD
10.	^\	0	1	0	^M
	1C	30	31	30	OD
11.	^\	0	1	1	^M
	1C	30	31	31	OD
12.	^\	0	1	2	^M
	1C	30	31	32	OD
13.	^\	0	1	3	^M
	1C	30	31	33	OD
14.	^\	0	1	4	^M
	1C	30	31	34	OD
15.	^\	0	1	5	^M
	1C	30	31	35	OD
16.	^\	0	1	6	^M
	1C	30	31	36	OD

NOTES

2. Series includes:
AVT+ ASCII alphanumeric
AVT-APL+ APL/ASCII alphanumeric
GVT+ Graphics and alphanumeric
GVT-APL+ Graphics and alphanumeric
3. All of display memory is accessible (96 or 192 lines) but only 24 lines appear on the screen at a time.
4. Software selectable 132.
18. Also FF (OCH). Delay is 38 ms per page. One page equals 24 lines. Delay required depends on how large a window is being cleared.
19. Delay is 96 ms per page. See note 18.
20. Delay is 96 ms per page. See note 18.
36. Also VT100/Concept Special Graphics characters and other optional (up to 4) software selectable character sets.
42. Each of the 46 programmable key functions can either execute a terminal function or transmit a sequence of characters to the host system.

ADDITIONAL FEATURES

- 4-8 pages of display memory
- 1-4 user-definable windows
- 4 software selectable character sets (total of 512 characters)
- full editing functions (insert/delete line, character; erase, etc.)
- multiple attribute lists
- 46 programmable key functions (execute, transmit, or disabled)

1. Manufacturer:		IBM	
2. Terminal:		3101	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1		
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:			
ESC Y		27. High intensity:	
1B 59			
9. Row or column first:	ROW	28. Half intensity:	
10. Numeric form of row and column:			
BINARY		29. Attributes occupy position:	NO
11. Add offset to:	Row: 1F	30. Attributes cumulative:	NO
	Col: 1F	31. All attributes off:	
12. Separator sequence:			
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC Y SP SP		32. Cursor up:	
1B 59 20 20		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC Y) Q		33. Cursor down:	
1B 59 29 51		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		ESC D	
ESC K	0	1B 44	
1B 4B		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J	0	37. Generate all control codes:	YES
1B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:	IBM
Terminal:	3101

41. Information provided by:
PUBLISHER

42. PROGRAM FUNCTION KEYS

1. ESC a ^C
1B 61 03

2. ESC b ^C
1B 62 03

3. ESC c ^C
1B 63 03

4. ESC d ^C
1B 64 03

5. ESC e ^C
1B 65 03

6. ESC f ^C
1B 66 03

7. ESC g ^C
1B 67 03

8. ESC h ^C
1B 68 03

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

18. ESC H ESC J will also clear the screen by homing the cursor then clearing to end of screen and will maintain complete compability with the DEC VT52 except for PF keys.

24.-28. 3101/20 has attributes but only in the block mode.

1. Manufacturer:	Intecolor Corporation
2. Terminal:	2405

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? NO

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column: VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0
12. Separator sequence:
;
3B
13. End sequence:
H
48

14. Cursor to top row, left column:
ESC [1 ; 1 H
1B 5B 31 3B 31 48
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 H
1B 5B 31 30 3B 35 30 48
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE

DELAY

18. Entire screen:
ESC [2 J 0
1B 5B 32 4A
19. Cursor to end of screen:
ESC [J 0
1B 5B 4A
20. Beginning of screen to cursor:
ESC [1 J 0
1B 5B 31 4A
21. Cursor to end of line:
ESC [K 0
1B 5B 4B
22. Beginning of line to cursor:
ESC [1 K 0
1B 5B 31 4B
23. Entire cursor line:
ESC [2 K 0
1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF

24. Blinking:
ESC [5 m ESC [m
1B 5B 35 6D 1B 5B 6D
25. Reverse video:
ESC [7 m ESC [m
1B 5B 37 6D 1B 5B 6D
26. Underline:
ESC [4 m ESC [m
1B 5B 34 6D 1B 5B 6D
27. High intensity:

28. Half intensity:

29. Attributes occupy position: NO
30. Attributes cumulative: YES
31. All attributes off:
ESC [m
1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:
VT100, VT52

Manufacturer:
Terminal:

Intecolor Corporation
2405

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O P
 1B 4F 50

2. ESC O Q
 1B 4F 51

3. ESC O R
 1B 4F 52

4. ESC O S
 1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Intecolor Corporation	
2. Terminal:		2427	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC [5 m	ESC [m
6. Left Column:	1	1B 5B 35 6D	1B 5B 6D
7. Printing in bottom right cause scroll?	NO	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
		1B 5B 34 6D	1B 5B 6D
		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
	VARIABLE-LENGTH ASCII		
11. Add offset to:	Row: 0		
	Col: 0		
12. Separator sequence:		29. Attributes occupy position:	NO
	; 3B	30. Attributes cumulative:	YES
13. End sequence:		31. All attributes off:	
	H 48	ESC [m	
		1B 5B 6D	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC [1 ; 1 H		32. Cursor up:	
1B 5B 31 3B 31 48		ESC [A	
15. 10th Row, 50th Column:		1B 5B 41	
ESC [1 0 ; 5 0 H		33. Cursor down:	
1B 5B 31 30 3B 35 30 48		ESC [B	
16. Delay after positioning:	0	1B 5B 42	
17. Cursor home:		34. Cursor right:	
ESC [H		ESC [C	
1B 5B 48		1B 5B 43	
		35. Cursor left:	
ERASURE	DELAY	ESC [D	
18. Entire screen:		1B 5B 44	
ESC [2 J	0	CHARACTER SET	
1B 5B 32 4A		36. Full upper and lower ASCII:	YES
19. Cursor to end of screen:		37. Generate all control codes:	YES
ESC [J	0	38. Bell or tone sequence:	
1B 5B 4A		^G	
20. Beginning of screen to cursor:		07	
ESC [1 J	0	EMULATION	
1B 5B 31 4A		39. Conform to ANSI X3.64?	YES
21. Cursor to end of line:		40. Terminals Emulated:	
ESC [K	0	VT100, VT52, 4010, 4027	
1B 5B 4B			
22. Beginning of line to cursor:			
ESC [1 K	0		
1B 5B 31 4B			
23. Entire cursor line:			
ESC [2 K	0		
1B 5B 32 4B			

Manufacturer:
Terminal:

Intecolor Corporation
2427

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O P
 1B 4F 50

2. ESC O Q
 1B 4F 51

3. ESC O R
 1B 4F 52

4. ESC O S
 1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Intecolor Corporation	
2. Terminal:		E8001G	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	48	ON	OFF
4. Number of columns:	80	24. Blinking:	^0
5. Top Row:	0	1F	OF
6. Left Column:	0	25. Reverse video:	^F ^P
7. Printing in bottom right		06 10	06 02
cause scroll?	YES	26. Underline:	
CURSOR ADDRESSING		27. High intensity:	
8. Lead-in sequence:		28. Half intensity:	
^C		29. Attributes occupy position:	NO
03		30. Attributes cumulative:	YES
9. Row or column first:	COL	31. All attributes off:	^F ^B ^0
10. Numeric form of row and column:		06 02 0F	
BINARY		CURSOR CONTROL KEYS	
11. Add offset to:	Row: 0	32. Cursor up:	^ \
Col: 0		1C	
12. Separator sequence:		33. Cursor down:	^J
13. End sequence:		0A	
		34. Cursor right:	^Y
		19	
		35. Cursor left:	^Z
		1A	
14. Cursor to top row, left column:		CHARACTER SET	
^C NUL NUL		36. Full upper and lower ASCII:	YES
03 00 00		37. Generate all control codes:	YES
15. 10th Row, 50th Column:		38. Bell or tone sequence:	^G
^C 1 ^I		07	
03 31 09		EMULATION	
16. Delay after positioning:	51	39. Conform to ANSI X3.64?	NO
17. Cursor home:		40. Terminals Emulated:	
^H			
08			
ERASURE	DELAY		
18. Entire screen:			
^L	46		
0C			
19. Cursor to end of screen:			
20. Beginning of screen to cursor:			
21. Cursor to end of line:			
22. Beginning of line to cursor:			
23. Entire cursor line:			
^K	46		
0B			

Manufacturer:
Terminal:

Intecolor Corporation
E8001G

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

36. ISA Available.

1.
F0
2.
F1
3.
F2
4.
F3
5.
F4
6.
F5
7.
F6
8.
F7
9.
F8
10.
F9
11.
FA
12.
FB
13.
FC
14.
FD
15.
FE
16.
FF

1. Manufacturer:	Intecolor Corporation
2. Terminal:	E8001R

SCREEN LAYOUT

3. Number of rows: 48
 4. Number of columns: 80
 5. Top Row: 0
 6. Left Column: 0
 7. Printing in bottom right
 cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
 ^C
 03
 9. Row or column first: COL
 10. Numeric form of row and column:
 BINARY
 11. Add offset to: Row: 0
 Col: 0
 12. Separator sequence:

13. End sequence:

14. Cursor to top row, left column:

^C NUL NUL
 03 00 00

15. 10th Row, 50th Column:

^C 1 ^I
 03 31 09

16. Delay after positioning: 51

17. Cursor home:

^H
 08

ERASURE DELAY

18. Entire screen: 146

^L
 0C

19. Cursor to end of screen:

20. Beginning of screen to cursor:

21. Cursor to end of line:

22. Beginning of line to cursor:

23. Entire cursor line:

^K 146
 0B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking: ^O
 1F OF
 25. Reverse video: ^F ^P ^F ^B
 06 10 06 02

26. Underline:

27. High intensity:

28. Half intensity:

29. Attributes occupy position: NO

30. Attributes cumulative: YES

31. All attributes off:

^F ^B ^O
 06 02 0F

CURSOR CONTROL KEYS

32. Cursor up:

^\
 1C

33. Cursor down:

^J
 0A

34. Cursor right:

^Y
 19

35. Cursor left:

^Z
 1A

CHARACTER SET

36. Full upper and lower ASCII: YES

37. Generate all control codes: YES

38. Bell or tone sequence:

^G
 07

EMULATION

39. Conform to ANSI X3.64? NO

40. Terminals Emulated:

E8001R

Manufacturer:
Terminal:

Intecolor Corporation
E8001R

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

36. ISA Available.

1.
F0
2.
F1
3.
F2
4.
F3
5.
F4
6.
F5
7.
F6
8.
F7
9.
F8
10.
F9
11.
FA
12.
FB
13.
FC
14.
FD
15.
FE
16.
FF

1. Manufacturer:	Intecolor Corporation
2. Terminal:	VHR19

SCREEN LAYOUT

3. Number of rows: 32
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? NO

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column:
VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0
12. Separator sequence:
;
3B
13. End sequence:
H
48
14. Cursor to top row, left column:
ESC [1 ; 1 H
1B 5B 31 3B 31 48
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 H
1B 5B 31 30 3B 35 30 48
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE

DELAY

18. Entire screen:
ESC [2 J 0
1B 5B 32 4A
19. Cursor to end of screen:
ESC [J 0
1B 5B 4A
20. Beginning of screen to cursor:
ESC [1 J 0
1B 5B 31 4A
21. Cursor to end of line:
ESC [K 0
1B 5B 4B
22. Beginning of line to cursor:
ESC [1 K 0
1B 5B 31 4B
23. Entire cursor line:
ESC [2 K 0
1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF

24. Blinking:
ESC [5 m ESC [m
1B 5B 35 6D 1B 5B 6D
25. Reverse video:
ESC [7 m ESC [m
1B 5B 37 6D 1B 5B 6D
26. Underline:
ESC [4 m ESC [m
1B 5B 34 6D 1B 5B 6D
27. High intensity:

28. Half intensity:

29. Attributes occupy position: NO
30. Attributes cumulative: YES
31. All attributes off:
ESC [m
1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:
VT100, VT52, 4014

Manufacturer:
Terminal:

Intecolor Corporation
VHR19

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O P
 1B 4F 50

2. ESC O Q
 1B 4F 51

3. ESC O R
 1B 4F 52

4. ESC O S
 1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Interaction Systems Inc.	
2. Terminal:		TT150	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G ^B	ESC G NUL
6. Left Column:	1	1B 47 02	1B 47 00
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC X	^X
		1B 58	18
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G ^H	ESC G NUL
ESC =		1B 47 08	1B 47 00
1B 3D		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC)	ESC (
11. Add offset to:	Row: 1F	1B 29	1B 28
	Col: 1F		
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC G NUL	
		1B 47 00	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^v	
16. Delay after positioning:	0	16	
17. Cursor home:		34. Cursor right:	
ESC H		^L	
1B 48		OC	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^Z	0	08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC Y	0	37. Generate all control codes:	YES
1B 59		38. Bell or tone sequence:	
20. Beginning of screen to cursor:	0	^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC T	0	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:		TT100, Televideo 950	
23. Entire cursor line:			

Manufacturer:
Terminal:

Interaction Systems Inc.
TT150

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. 20 function keys.

1. ^A @ ^M
01 40 OD

2. ^A A ^M
01 41 OD

3. ^A B ^M
01 42 OD

4. ^A C ^M
01 43 OD

5. ^A D ^M
01 44 OD

6. ^A E ^M
01 45 OD

7. ^A F ^M
01 46 OD

8. ^A G ^M
01 47 OD

9. ^A H ^M
01 48 OD

10. ^A I ^M
01 49 OD

11. ^A P ^M
01 50 OD

12. ^A Q ^M
01 51 OD

13. ^A R ^M
01 52 OD

14. ^A S ^M
01 53 OD

15. ^A T ^M
01 54 OD

16. ^A U ^M
01 55 OD

1. Manufacturer:	Ithaca Intersystems, Inc.		
2. Terminal:	Graphos I		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	30	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC [5 m	ESC [m
6. Left Column:	1	1B 5B 35 6D	1B 5B 6D
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
		1B 5B 34 6D	1B 5B 6D
		27. High intensity:	
9. Row or column first:	ROW	ESC [1 m	ESC [m
10. Numeric form of row and column:		1B 5B 31 6D	1B 5B 6D
VARIABLE-LENGTH ASCII		28. Half intensity:	
11. Add offset to:	Row: 0		
	Col: 0		
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	YES
		31. All attributes off:	
		ESC [m	
		1B 5B 6D	
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC [1 ; 1 H		32. Cursor up:	
1B 5B 31 3B 31 48		ESC [A	
		1B 5B 41	
15. 10th Row, 50th Column:		33. Cursor down:	
ESC [1 0 ; 5 0 H		ESC [B	
1B 5B 31 30 3B 35 30 48		1B 5B 42	
16. Delay after positioning:	0	34. Cursor right:	
17. Cursor home:		ESC [C	
		1B 5B 43	
		35. Cursor left:	
		ESC [D	
		1B 5B 44	
ERASURE		CHARACTER SET	
18. Entire screen:	DELAY	36. Full upper and lower ASCII:	YES
ESC [2 J	0	37. Generate all control codes:	YES
1B 5B 32 4A		38. Bell or tone sequence:	
19. Cursor to end of screen:		^G	
ESC [J	0	07	
1B 5B 4A			
20. Beginning of screen to cursor:			
ESC [1 J	0		
1B 5B 31 4A			
21. Cursor to end of line:		EMULATION	
ESC [K	0	39. Conform to ANSI X3.64?	YES
1B 5B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:		DEC VT100	
ESC [1 K	0	Tektronix 4010	
1B 5B 31 4B			
23. Entire cursor line:			
ESC [2 K	0		
1B 5B 32 4B			

Manufacturer:
Terminal:

Ithaca Intersystems, Inc.
Graphos I

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O P
 1B 4F 50

2. ESC O Q
 1B 4F 51

3. ESC O R
 1B 4F 52

4. ESC O S
 1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Ithaca Intersystems, Inc.
2. Terminal:	Graphos II

SCREEN LAYOUT

3. Number of rows: 30
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48
 14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

DELAY

18. Entire screen:
 ESC [2 J 0
 1B 5B 32 4A
 19. Cursor to end of screen:
 ESC [J 0
 1B 5B 4A
 20. Beginning of screen to cursor:
 ESC [1 J 0
 1B 5B 31 4A
 21. Cursor to end of line:
 ESC [K 0
 1B 5B 4B
 22. Beginning of line to cursor:
 ESC [1 K 0
 1B 5B 31 4B
 23. Entire cursor line:
 ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D
 28. Half intensity:
 29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:
 DEC VT100
 Tektronix 4010

Manufacturer:
Terminal:

Ithaca Intersystems, Inc.
Graphos II

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O P
 1B 4F 50

2. ESC O Q
 1B 4F 51

3. ESC O R
 1B 4F 52

4. ESC O S
 1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Ithaca Intersystems, Inc.
2. Terminal:	Graphos III

SCREEN LAYOUT

3. Number of rows: 30
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0
 Col: 0

12. Separator sequence:
 ;
 3B

13. End sequence:
 H
 48

14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48

15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48

16. Delay after positioning: 0

17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

DELAY

18. Entire screen:
 ESC [2 J
 1B 5B 32 4A 0

19. Cursor to end of screen:
 ESC [J
 1B 5B 4A 0

20. Beginning of screen to cursor:
 ESC [1 J
 1B 5B 31 4A 0

21. Cursor to end of line:
 ESC [K
 1B 5B 4B 0

22. Beginning of line to cursor:
 ESC [1 K
 1B 5B 31 4B 0

23. Entire cursor line:
 ESC [2 K
 1B 5B 32 4B 0

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D
 28. Half intensity:

29. Attributes occupy position: NO

30. Attributes cumulative: YES

31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41

33. Cursor down:
 ESC [B
 1B 5B 42

34. Cursor right:
 ESC [C
 1B 5B 43

35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES

37. Generate all control codes: YES

38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES

40. Terminals Emulated:
 DEC VT100
 Tektronix 4010

Manufacturer:
Terminal:

Ithaca Intersystems, Inc.
Graphos III

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O P
 1B 4F 50

2. ESC O Q
 1B 4F 51

3. ESC O R
 1B 4F 52

4. ESC O S
 1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Kaypro Corporation
2. Terminal:	Kaypro 2^84, 4^84, 10 and Robie

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC =
 1B 3D
 9. Row or column first: ROW
 10. Numeric form of row and column: BINARY
 11. Add offset to: Row: 1F Col: 1F
 12. Separator sequence:
 13. End sequence:

14. Cursor to top row, left column:
 ESC = SP SP
 1B 3D 20 20
 15. 10th Row, 50th Column:
 ESC =) Q
 1B 3D 29 51
 16. Delay after positioning: 0
 17. Cursor home:
 ^^
 1E

ERASURE

18. Entire screen: DELAY
 ^Z 0
 1A
 19. Cursor to end of screen: 0
 ^W
 17
 20. Beginning of screen to cursor:
 21. Cursor to end of line: 0
 ^X
 18
 22. Beginning of line to cursor:
 23. Entire cursor line: 0
 ESC R
 1B 52

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC B 2 ESC C 2
 1B 42 32 1B 43 32
 25. Reverse video:
 ESC B 0 ESC C 0
 1B 42 30 1B 43 30
 26. Underline:
 ESC B 3 ESC C 3
 1B 42 33 1B 43 33
 27. High intensity:
 28. Half intensity:
 ESC B 1 ESC B 1
 1B 42 31 1B 42 31
 29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:

CURSOR CONTROL KEYS

32. Cursor up:
 ^E
 05
 33. Cursor down:
 ^X
 18
 34. Cursor right:
 ^D
 04
 35. Cursor left:
 ^S
 13

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? NO
 40. Terminals Emulated:
 ADM 3A (Partial)

Manufacturer:

Kaypro Corporation

Terminal:

Kaypro 2'84, 4'84, 10 and Robie

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. Models 2'84 and 4'84 identified by
half-high drives and two serial ports.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Kaypro Corporation
2. Terminal:		KP 2'83, KP 4'83

SCREEN LAYOUT		VIDEO ATTRIBUTES
3. Number of rows:	24	ON OFF
4. Number of columns:	80	24. Blinking:
5. Top Row:	1	
6. Left Column:	1	
7. Printing in bottom right cause scroll?	YES	25. Reverse video:
CURSOR ADDRESSING		26. Underline:
8. Lead-in sequence:		
ESC =		
1B 3D		27. High intensity:
9. Row or column first:	ROW	
10. Numeric form of row and column:		28. Half intensity:
BINARY		
11. Add offset to:	Row: 1F Col: 1F	29. Attributes occupy position: NO
12. Separator sequence:		30. Attributes cumulative: NO
		31. All attributes off:
13. End sequence:		
14. Cursor to top row, left column:		CURSOR CONTROL KEYS
ESC = SP SP		32. Cursor up:
1B 3D 20 20		^K
15. 10th Row, 50th Column:		OB
ESC =) Q		33. Cursor down:
1B 3D 29 51		^J
16. Delay after positioning:	0	OA
17. Cursor home:		34. Cursor right:
^^		^L
1E		OC
ERASURE	DELAY	35. Cursor left:
18. Entire screen:		^H
^Z	0	OB
1A		CHARACTER SET
19. Cursor to end of screen:		36. Full upper and lower ASCII: YES
^W	0	37. Generate all control codes: YES
17		38. Bell or tone sequence:
20. Beginning of screen to cursor:		^G
		07
21. Cursor to end of line:		EMULATION
^X	0	39. Conform to ANSI X3.64? NO
18		40. Terminals Emulated:
22. Beginning of line to cursor:		ADM 3A (Partial)
23. Entire cursor line:		
ESC R	0	
1B 52		

Manufacturer:
Terminal:

Kaypro Corporation
KP 2'83, KP 4'83

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

The '83 series were the original 2 and
4 with full height drives and one
serial port.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Kimtron Corporation
2. Terminal:	KT-10

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48

14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

18. Entire screen: DELAY
 ESC [2 J 0
 1B 5B 32 4A
 19. Cursor to end of screen:
 ESC [J 0
 1B 5B 4A
 20. Beginning of screen to cursor:
 ESC [1 J 0
 1B 5B 31 4A
 21. Cursor to end of line:
 ESC [K 0
 1B 5B 4B
 22. Beginning of line to cursor:
 ESC [1 K 0
 1B 5B 31 4B
 23. Entire cursor line:
 ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D
 28. Half intensity:

29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:

Manufacturer:
Terminal:

Kimtron Corporation
KT-10

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Lear Siegler, Inc.	
2. Terminal:		ADM 11	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:			
ESC =			
1B 3D			
9. Row or column first:	ROW	27. High intensity:	
10. Numeric form of row and column:			
BINARY			
11. Add offset to:	Row: 1F	28. Half intensity:	
	Col: 1F	ESC)	
		1B 29	
12. Separator sequence:		ESC (	
		1B 28	
		29. Attributes occupy position: YES	
		30. Attributes cumulative: NO	
		31. All attributes off:	
13. End sequence:		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^J	
16. Delay after positioning:	0	OA	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^Z	0	08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII: YES	
ESC y	0	37. Generate all control codes: YES	
1B 79		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC t	0	39. Conform to ANSI X3.64? NO	
1B 74		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Lear Siegler, Inc.
ADM 11

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^A @ ^M
01 40 OD
2. ^A A ^M
01 41 OD
3. ^A B ^M
01 42 OD
4. ^A C ^M
01 43 OD
5. ^A D ^M
01 44 OD
6. ^A E ^M
01 45 OD
7. ^A F ^M
01 46 OD
8. ^A G ^M
01 47 OD

NOTES

29. Half intensity does not occupy a character position, all others do.
30. Combinations as follows:
ESC G 0 Normal video
ESC G 1 Blank
ESC G 2 Blink
ESC G 3 Blank and blink
ESC G 4 Reverse
ESC G 5 Reverse and blank
ESC G 6 Reverse and blink
ESC G 7 Blank, blink and reverse
ESC G 8 Business graphics
ESC G 9 Bus. graphics and blank
ESC G A Bus. graphics and blink
ESC G B Bus. graph., blank & blink
ESC G C Bus. graphics and reverse
ESC G D Bus. graph., rev. & blank
ESC G E Bus. graph., rev. & blink
ESC G F Bus. graph., rev., blank & blink
ESC G) Set reduced intensity
ESC G (Reset reduced intensity
36. 128 displayable characters, including control codes. Optional international sets available. Block graphics, wide point graphics and line drawing characters.
42. F5-F8 are F1-F4 shifted. Defaults shown, all function keys are programmable up to 8 characters each.

- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

1. Manufacturer:	Lear Siegler, Inc.		
2. Terminal:	ADM 12		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 8	ESC G 0
ESC =		1B 47 38	1B 47 30
1B 3D		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:	BINARY	28. Half intensity:	
11. Add offset to:	Row: 1F	ESC G @	ESC G 0
	Col: 1F	1B 47 40	1B 47 30
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^J	
16. Delay after positioning:	0	OA	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^Z	0	08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC y	0	37. Generate all control codes:	YES
1B 79		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC t	0	39. Conform to ANSI X3.64?	NO
1B 74		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Lear Siegler, Inc.
ADM 12

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^A @ ^M
01 40 OD
2. ^A A ^M
01 41 OD
3. ^A B ^M
01 42 OD
4. ^A C ^M
01 43 OD
5. ^A D ^M
01 44 OD
6. ^A E ^M
01 45 OD
7. ^A F ^M
01 46 OD
8. ^A G ^M
01 47 OD
9. ^A H ^M
01 48 OD
10. ^A I ^M
01 49 OD
11. ^A J ^M
01 4A OD
12. ^A K ^M
01 4B OD
13. ^A L ^M
01 4C OD
14. ^A M ^M
01 4D OD
15. ^A N ^M
01 4E OD
16. ^A O ^M
01 4F OD

NOTES

3. Optionally 48.
4. Optionally 158 (x24 rows).
29. Embedded attributes also available.
36. 128 displayable characters, including control codes. Optional international sets available. Block graphics, wide point graphics and line drawing characters.
42. F17-F32 are F1-F16 shifted. Defaults shown, all function keys are programmable up to 8 characters each.

F17	SOH P CR	F25	SOH X CR
F18	SOH Q CR	F26	SOH Y CR
F19	SOH R CR	F27	SOH Z CR
F20	SOH S CR	F28	SOH [CR
F21	SOH T CR	F29	SOH \ CR
F22	SOH U CR	F30	SOH] CR
F23	SOH V CR	F31	SOH ^ CR
F24	SOH W CR	F32	SOH _ CR

1. Manufacturer:		Lear Siegler, Inc.	
2. Terminal:		ADM 22	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1	25. Reverse video:	
7. Printing in bottom right cause scroll?	YES		
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		27. High intensity:	
ESC =		28. Half intensity:	
1B 3D		29. Attributes occupy position: NO	
9. Row or column first:	ROW	30. Attributes cumulative: NO	
10. Numeric form of row and column:		31. All attributes off:	
	BINARY		
11. Add offset to:	Row: 1F		
	Col: 1F		
12. Separator sequence:			
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC =	SP SP	32. Cursor up:	
1B 3D	20 20	^K	
15. 10th Row, 50th Column:		OB	
ESC =	) Q	33. Cursor down:	
1B 3D	29 51	^J	
16. Delay after positioning:	0	OA	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^Z	0	08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII: YES	
ESC y	0	37. Generate all control codes: YES	
1B 79		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC t	0	39. Conform to ANSI X3.64? NO	
1B 74		40. Terminals Emulated:	
22. Beginning of line to cursor:		Hazeltine 1500, ADDS Regent 25	
23. Entire cursor line:			
ESC >	0		
1B 3E			

Manufacturer:
Terminal:

Lear Siegler, Inc.
ADM 22

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^A @ ^M
01 40 OD

2. ^A A ^M
01 41 OD

3. ^A B ^M
01 42 OD

4. ^A C ^M
01 43 OD

5. ^A D ^M
01 44 OD

6. ^A E ^M
01 45 OD

7. ^A F ^M
01 46 OD

8.

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

24.-28. Blinking, reverse video,
underline, half-intensity and
combinations thereof may be
selected by switch settings
and used with write protected
fields.

36. Plus 32 graphics characters.

1. Manufacturer:	Lear Siegler, Inc.		
2. Terminal:	ADM 24E		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC c
6. Left Column:	1	1B 47 32	1B 63
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC G 4	ESC c
		1B 47 34	1B 63
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 8	ESC c
		1B 47 38	1B 63
		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC G @	ESC c
11. Add offset to:	Row: 1F	1B 47 40	1B 63
	Col: 1F		
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC c	
		1B 63	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^J	
16. Delay after positioning:	0	OA	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^Z	0	08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
		37. Generate all control codes:	YES
20. Beginning of screen to cursor:		38. Bell or tone sequence:	
		^G	
		07	
21. Cursor to end of line:		EMULATION	
		39. Conform to ANSI X3.64?	NO
22. Beginning of line to cursor:		40. Terminals Emulated:	
23. Entire cursor line:			

Manufacturer:
Terminal:

Lear Siegler, Inc.
ADM 24E

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^A @ ^M
01 40 OD
2. ^A A ^M
01 41 OD
3. ^A B ^M
01 42 OD
4. ^A C ^M
01 43 OD
5. ^A D ^M
01 44 OD
6. ^A E ^M
01 45 OD
7. ^A F ^M
01 46 OD
8. ^A G ^M
01 47 OD
9. ^A H ^M
01 48 OD
10. ^A I ^M
01 49 OD
11. ^A J ^M
01 4A OD
12. ^A K ^M
01 4B OD
13. ^A L ^M
01 4C OD
14. ^A M ^M
01 4D OD
15. ^A N ^M
01 4E OD
16. ^A O ^M
01 4F OD

NOTES

3. 48-line display configurable
in 1 or 2 user definable pages.
30. Cumulative attributes use
separate codes. See manual.
36. Foreign language sets available.
42. F1 through F8 are shiftable to
F9 through F16.
All function keys are programmable
through set-up mode. Values shown
are default.

1. Manufacturer:		Lear Siegler, Inc.	
2. Terminal:		ADM 3A	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1		
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:			
	ESC =		
	1B 3D	27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
	BINARY		
11. Add offset to:	Row: 1F Col: 1F	29. Attributes occupy position: NO	
12. Separator sequence:		30. Attributes cumulative: NO	
		31. All attributes off:	
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^J	
16. Delay after positioning: 0		OA	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE DELAY		35. Cursor left:	
18. Entire screen:		^H	
^Z		08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII: NO	
		37. Generate all control codes: YES	
20. Beginning of screen to cursor:		38. Bell or tone sequence:	
		^G	
		07	
21. Cursor to end of line:		EMULATION	
		39. Conform to ANSI X3.64? NO	
22. Beginning of line to cursor:		40. Terminals Emulated:	
23. Entire cursor line:			

Manufacturer:
Terminal:

Lear Siegler, Inc.
ADM 3A

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|---|
| 1. | 36. 64-character ASCII standard,
95-character ASCII optional |
| 2. | 37. Generates 128 ASCII characters |
| 3. | |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |

1. Manufacturer:		Lear Siegler, Inc.	
2. Terminal:		ADM 5	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1		
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC G	ESC G
		1B 47	1B 47
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:			
ESC =			
1B 3D		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:			
BINARY		28. Half intensity:	
11. Add offset to:	Row: 1F	ESC)	ESC (
	Col: 1F	1B 29	1B 28
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC (	
		1B 28	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^J	
16. Delay after positioning:	0	OA	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^Z	0	08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
		37. Generate all control codes:	YES
20. Beginning of screen to cursor:		38. Bell or tone sequence:	
		^G	
		07	
21. Cursor to end of line:		EMULATION	
		39. Conform to ANSI X3.64?	NO
22. Beginning of line to cursor:		40. Terminals Emulated:	
23. Entire cursor line:			

Manufacturer:
Terminal:

Lear Siegler, Inc.
ADM 5

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Liberty Electronics		
2. Terminal:	Freedom 100		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 8	ESC G 0
ESC =		1B 47 38	1B 47 30
1B 3D		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC G @	ESC G 0
11. Add offset to:	Row: 1F	1B 47 40	1B 47 30
	Col: 1F		
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^V	
16. Delay after positioning:	0	16	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE		35. Cursor left:	
DELAY		^H	
18. Entire screen:		08	
ESC *	0	CHARACTER SET	
1B 2A		36. Full upper and lower ASCII:	YES
19. Cursor to end of screen:		37. Generate all control codes:	YES
ESC Y	0	38. Bell or tone sequence:	
1B 59		^G	
20. Beginning of screen to cursor:		07	
21. Cursor to end of line:		EMULATION	
ESC T	0	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:		Teletype 950	
		ADM 31	
23. Entire cursor line:			
ESC R	0		
1B 52			

Manufacturer:
Terminal:

Liberty Electronics
Freedom 100

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ^A @ ^M
01 40 OD

2. ^A A ^M
01 41 OD

3. ^A B ^M
01 42 OD

4. ^A C ^M
01 43 OD

5. ^A D ^M
01 44 OD

6. ^A E ^M
01 45 OD

7. ^A F ^M
01 46 OD

8. ^A G ^M
01 47 OD

9. ^A H ^M
01 48 OD

10. ^A I ^M
01 49 OD

11.

12.

13.

14.

15.

16.

-----		Liberty Electronics	
1. Manufacturer:		Freedom 110	
2. Terminal:			

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 8	ESC G 0
ESC =		1B 47 38	1B 47 30
1B 3D		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC G @	ESC G 0
11. Add offset to:	Row: 1F	1B 47 40	1B 47 30
	Col: 1F		
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		0B	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^V	
16. Delay after positioning:	0	16	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		0C	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
ESC *	0	08	
1B 2A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC Y	0	37. Generate all control codes:	YES
1B 59		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC T	0	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:		Televideo 950	
		ADM 31	
23. Entire cursor line:			
ESC R	0		
1B 52			

Manufacturer:
Terminal:

Liberty Electronics
Freedom 110

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. All function keys are user-
programmable up to 256 bytes.

1. ^A @ ^M
01 40 OD

2. ^A A ^M
01 41 OD

3. ^A B ^M
01 42 OD

4. ^A C ^M
01 43 OD

5. ^A D ^M
01 44 OD

6. ^A E ^M
01 45 OD

7. ^A F ^M
01 46 OD

8. ^A G ^M
01 47 OD

9. ^A H ^M
01 48 OD

10. ^A I ^M
01 49 OD

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Liberty Electronics
2. Terminal:	Freedom 200

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right
 cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC =
 1B 3D
 9. Row or column first: ROW
 10. Numeric form of row and column:
 BINARY
 11. Add offset to: Row: 1F
 Col: 1F
 12. Separator sequence:
 13. End sequence:

14. Cursor to top row, left column:
 ESC = SP SP
 1B 3D 20 20
 15. 10th Row, 50th Column:
 ESC =) Q
 1B 3D 29 51
 16. Delay after positioning: 0
 17. Cursor home:
 ^^
 1E

ERASURE

18. Entire screen: DELAY
 ESC * 0
 1B 2A
 19. Cursor to end of screen: 0
 ESC Y
 1B 59
 20. Beginning of screen to cursor:

21. Cursor to end of line: 0
 ESC T
 1B 54

22. Beginning of line to cursor:

23. Entire cursor line: 0
 ESC R
 1B 52

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC G 2 ESC G 0
 1B 47 32 1B 47 30
 25. Reverse video:
 ESC G 4 ESC G 0
 1B 47 34 1B 47 30
 26. Underline:
 ESC G 8 ESC G 0
 1B 47 38 1B 47 30
 27. High intensity:
 28. Half intensity:
 ESC G @ ESC G 0
 1B 47 40 1B 47 30
 29. Attributes occupy position: NO
 30. Attributes cumulative: NO
 31. All attributes off:
 ESC G 0
 1B 47 30

CURSOR CONTROL KEYS

32. Cursor up:
 ^K
 0B
 33. Cursor down:
 ^V
 16
 34. Cursor right:
 ^L
 0C
 35. Cursor left:
 ^H
 08

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? NO
 40. Terminals Emulated:
 Televideo 910
 ADM 3A/5
 Hazeltine 1420
 ADDS Regent 25

Manufacturer:
Terminal:

Liberty Electronics
Freedom 200

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. All function keys are user-
programmable up to 256 bytes.

1. ^A @ ^M
01 40 OD

2. ^A A ^M
01 41 OD

3. ^A B ^M
01 42 OD

4. ^A C ^M
01 43 OD

5. ^A D ^M
01 44 OD

6. ^A E ^M
01 45 OD

7. ^A F ^M
01 46 OD

8. ^A G ^M
01 47 OD

9. ^A H ^M
01 48 OD

10. ^A I ^M
01 49 OD

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Morrow Inc.
2. Terminal:		MDT 60

SCREEN LAYOUT		VIDEO ATTRIBUTES
3. Number of rows:	24	ON OFF
4. Number of columns:	80	24. Blinking:
5. Top Row:	1	
6. Left Column:	1	
7. Printing in bottom right cause scroll?	YES	25. Reverse video:
		ESC G 4 ESC G 0
		1B 47 34 1B 47 30
CURSOR ADDRESSING		26. Underline:
8. Lead-in sequence:		ESC G 1 ESC G 0
ESC =		1B 47 31 1B 47 30
1B 3D		
9. Row or column first:	ROW	27. High intensity:
10. Numeric form of row and column:		ESC G 0 ESC G 0
BINARY		1B 47 30 1B 47 30
11. Add offset to:	Row: 1F	28. Half intensity:
	Col: 1F	ESC G 2 ESC G 0
		1B 47 32 1B 47 30
12. Separator sequence:		29. Attributes occupy position: NO
		30. Attributes cumulative: NO
13. End sequence:		31. All attributes off:
		ESC G 0
		1B 47 30
14. Cursor to top row, left column:		CURSOR CONTROL KEYS
ESC = SP SP		32. Cursor up:
1B 3D 20 20		^ \ J
15. 10th Row, 50th Column:		1C 4A
ESC =) Q		33. Cursor down:
1B 3D 29 51		^ \ K
16. Delay after positioning:	0	1C 4B
17. Cursor home:		34. Cursor right:
^^		^ \ M
1E		1C 4D
ERASURE	DELAY	35. Cursor left:
18. Entire screen:		^ \ L
^Z	0	1C 4C
1A		CHARACTER SET
19. Cursor to end of screen:		36. Full upper and lower ASCII: YES
ESC Y	0	37. Generate all control codes: YES
1B 59		38. Bell or tone sequence:
20. Beginning of screen to cursor:		^G
		07
21. Cursor to end of line:		EMULATION
ESC T	0	39. Conform to ANSI X3.64? NO
1B 54		40. Terminals Emulated:
22. Beginning of line to cursor:		Teletype 925, Freedom 100
23. Entire cursor line:		
ESC R	0	
1B 52		

Manufacturer:
Terminal:

Morrow Inc.
MDT 60

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ^\ @
1C 40

2. ^\ A
1C 41

3. ^\ B
1C 42

4. ^\ C
1C 43

5. ^\ D
1C 44

6. ^\ E
1C 45

7. ^\ F
1C 46

8. ^\ G
1C 47

9. ^\ H
1C 48

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		NCR Corp.	
2. Terminal:		NCR 7910 (ANSI mode)	
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1	25. Reverse video:	
7. Printing in bottom right cause scroll?	PROG		
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		27. High intensity:	
ESC [			
1B 5B		28. Half intensity:	
9. Row or column first:	ROW	29. Attributes occupy position:	YES
10. Numeric form of row and column:		30. Attributes cumulative:	NO
VARIABLE-LENGTH ASCII		31. All attributes off:	
11. Add offset to:	Row: 0	ESC P @ @ ESC \	
	Col: 0	1B 50 40 40 1B 5C	
12. Separator sequence:		CURSOR CONTROL KEYS	
;		32. Cursor up:	
3B		ESC [A	
13. End sequence:		1B 5B 41	
H		33. Cursor down:	
48		ESC [B	
14. Cursor to top row, left column:		1B 5B 42	
ESC [1 ; 1 H		34. Cursor right:	
1B 5B 31 3B 31 48		ESC [C	
15. 10th Row, 50th Column:		1B 5B 43	
ESC [1 0 ; 5 0 H		35. Cursor left:	
1B 5B 31 30 3B 35 30 48		ESC [D	
16. Delay after positioning:	0	1B 5B 44	
17. Cursor home:		CHARACTER SET	
ESC [H		36. Full upper and lower ASCII:	YES
1B 5B 48		37. Generate all control codes:	YES
ERASURE	DELAY	38. Bell or tone sequence:	
18. Entire screen:		^G	
^L	0	07	
OC		EMULATION	
19. Cursor to end of screen:		39. Conform to ANSI X3.64?	YES
ESC [0	0	40. Terminals Emulated:	
1B 5B 4F		NCR 7900 Model 1	
20. Beginning of screen to cursor:		NCR 7900 Model 4	
		ANSI Standard X3.64	
21. Cursor to end of line:			
ESC [K	0		
1B 5B 4B			
22. Beginning of line to cursor:			
23. Entire cursor line:			
ESC [2 K	0		
1B 5B 32 4B			

Manufacturer:
Terminal:

NCR Corp.
NCR 7910 (ANSI mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^B 1 ^M
02 31 OD
2. ^B 2 ^M
02 32 OD
3. ^B 3 ^M
02 33 OD
4. ^B 4 ^M
02 34 OD
5. ^B 5 ^M
02 35 OD
6. ^B 6 ^M
02 36 OD
7. ^B 7 ^M
02 37 OD
8. ^B 8 ^M
02 38 OD
9. ^B 9 ^M
02 39 OD
10. ^B 0 ^M
02 30 OD
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

NOTES

3. Terminal may be configured to have a total of 24, 48, 72 or 96 lines, of which 24 are displayed on the screen at one time (plus status line).
4. Terminal may be configured to either 80 or 132 columns.
7. Terminal may be configured so that entering a character in the last column of any row (including the last one on the screen) will not cause a scroll to the next line until a CR LF (or another control sequence) is entered.
14. Row 1 and column 1 are default paramaters that do not need to be specifically transmitted.
- 24.-28. Field attributes:
Blinking ESC P @ C ESC \
Reverse ESC P @ B ESC \
Underline ESC P @ A ESC \
High intensity ESC P P @ ESC \
Normal ESC P @ @ ESC \
29. Attributes in 24-28 are field attributes, which do take up character positions. Character attributes, which do not take up a character position, can also be accessed by using different parameters [see ANSI X3.64].
30. Combinations of attributes (plus double wide, protected, and numeric entry) are possible in one sequence by changing the middle two parameters of the sequence. Concatenated attribute sequences are not cumulative. See manual.
31. The sequence to clear character attributes is ESC P b @ ESC \.
36. An extended character set, containing international language and block graphics characters is also available.
42. Terminal has PFO-PF9. PF10 shown here is PFO on the terminal. Besides the 10 PF keys, there are 20 user keys that can be programmed with any sequence desired.

1. Manufacturer:		NCR Corp.	
2. Terminal:		NCR 7910 (Model 1 mode)	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	0	ESC 0 B	ESC 0 @
6. Left Column:	0	1B 30 42	1B 30 40
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC 0 P	ESC 0 @
		1B 30 50	1B 30 40
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC 0 ^	ESC 0 @
ESC 1		1B 30 60	1B 30 40
1B 31		27. High intensity:	
9. Row or column first:	COL	ESC 0 A	ESC 0 @
10. Numeric form of row and column:		1B 30 41	1B 30 40
BINARY		28. Half intensity:	
11. Add offset to:	Row: 0		
	Col: 0		
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC 0 @	
		1B 30 40	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC 1 P 0		32. Cursor up:	
1B 31 50 30		^Z	
15. 10th Row, 50th Column:		1A	
ESC 1 1 9		33. Cursor down:	
1B 31 31 39		^J	
16. Delay after positioning:	0	0A	
17. Cursor home:		34. Cursor right:	
^A		^F	
01		06	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^U	
^L	0	15	
0C		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC k	0	37. Generate all control codes:	YES
1B 6B		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:		NCR 7900 Model 1	
		NCR 7900 Model 4	
		ANSI Standard X3.64	
23. Entire cursor line:			

Manufacturer:
Terminal:

NCR Corp.
NCR 7910 (Model 1 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^B 1 ^M
02 31 OD
2. ^B 2 ^M
02 32 OD
3. ^B 3 ^M
02 33 OD
4. ^B 4 ^M
02 34 OD
5. ^B 5 ^M
02 35 OD
6. ^B 6 ^M
02 36 OD
7. ^B 7 ^M
02 37 OD
8. ^B 8 ^M
02 38 OD
9. ^B 9 ^M
02 39 OD
10. ^B 0 ^M
02 30 OD
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

NOTES

3. Terminal may be configured to have a total of 24, 48, 72 or 96 lines, of which 24 are displayed on the screen at one time (plus a status line).
4. Terminal may be configured to have either 80 or 132 columns.
7. Terminal may be configured so that entering a character in the last column of any row (including the last one on the screen) will not cause a scroll to the next line until a CR LF (or another control sequence) is entered.
5. & 11. In 7900 Model 1 mode, row and column parameters are binary, but the column parameter is taken modulo 80, and the row parameter is taken modulo 24.
17. If the terminal is configured to scroll data rather than wrap the cursor to the top of screen, the home position is the lower left-hand corner.
30. Some combinations of these attributes are possible in one sequence by changing the last parameter of the sequence. Concatenated attribute sequences are not cumulative.
36. An extended character set, containing international language and block graphics characters is also available.
42. Terminal uses PF0-PF9. PF10 shown here is PF0 on the terminal. The CR character shown can be configured to send CR, ETX, EOT or none.

1. Manufacturer:	NCR Corp.
2. Terminal:	NCR 7910 (Model 4 mode)

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 0
6. Left Column: 0
7. Printing in bottom right cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
^K
OB
9. Row or column first: ROW
10. Numeric form of row and column:
SEE NOTE 10
11. Add offset to: Row: 40 Col: 0
12. Separator sequence:
ESC ^E
1B 05
13. End sequence:

14. Cursor to top row, left column:
^K @
OB 40
15. 10th Row, 50th Column:
^K I ESC ^E 4 9
OB 49 1B 05 34 39
16. Delay after positioning: 0
17. Cursor home:
^K @
OB 40

ERASURE

DELAY

18. Entire screen:
^L 0
OC
19. Cursor to end of screen:

20. Beginning of screen to cursor:

21. Cursor to end of line:

22. Beginning of line to cursor:

23. Entire cursor line:

VIDEO ATTRIBUTES

ON OFF
24. Blinking: ^O
OE OF
25. Reverse video: ^O
OE OF
26. Underline: ^O
OE OF
27. High intensity:
28. Half intensity:

29. Attributes occupy position: NO
30. Attributes cumulative: NO
31. All attributes off:
^O
OF

CURSOR CONTROL KEYS

32. Cursor up:
33. Cursor down:
34. Cursor right:
35. Cursor left:

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? NO
40. Terminals Emulated:
NCR 7900 Model 1
NCR 7900 Model 4
ANSI Standard X3.64

Manufacturer:
Terminal:

NCR Corp.
NCR 7910 (Model 4 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^B 1 ^M
02 31 OD
2. ^B 2 ^M
02 32 OD
3. ^B 3 ^M
02 33 OD
4. ^B 4 ^M
02 34 OD
5. ^B 5 ^M
02 35 OD
6. ^B 6 ^M
02 36 OD
7. ^B 7 ^M
02 37 OD
8. ^B 8 ^M
02 38 OD
9. ^B 9 ^M
02 39 OD
10. ^B 0 ^M
02 30 OD

NOTES

3. Terminal may be configured to have 24, 48, 72 or 96 lines, of which 24 are displayed on the screen at one time (plus a status line).
 4. Terminal may be configured to either 80 or 132 columns.
 7. Terminal may be configured so that entering a character in the last column of any row (including the last one on the screen) will not cause a scroll to the next line until a CR LF (or another control sequence) is entered.
 10. 7900 Model 4 uses two separate sequences for cursor positioning: line address, and horizontal address. The listed row/column sequence separator is really the lead-in sequence for the horizontal address command.
Row is binary plus 40H offset.
Column is 2-byte or 3-byte ASCII.
 12. See note 10.
 19. & 21. Although there are no sequences for these functions that can be transmitted by the host, the following erasure functions can be done from the keyboard:
From cursor to end of screen.
From cursor to end of line.
 30. The 7900 Model 4 can only use one video attribute at a time. There can not be cumulative or multiple attributes.
 - 32.-35. All are local in block mode only. No sequence generated.
 36. A limited set of block graphics characters is also available.
 42. Terminal has PF0-PF9. PF10 shown is PF0 on the terminal. The CR character may be CR, ETX, EOT or none.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

1. Manufacturer:		Paradyne	
2. Terminal:		7811-01 Async	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1		
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 1	ESC G 0
ESC =		1B 47 31	1B 47 30
1B 3D		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:	BINARY	28. Half intensity:	
11. Add offset to:	Row: 1F	ESC G 2	ESC G 0
	Col: 1F	1B 47 32	1B 47 30
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	YES
		31. All attributes off:	
13. End sequence:		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^A J ^M	
15. 10th Row, 50th Column:		01 4A OD	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^A K ^M	
16. Delay after positioning:	0	01 4B OD	
17. Cursor home:		34. Cursor right:	
^N		^A M ^M	
OE		01 4D OD	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^A L ^M	
ESC +	0	01 4C OD	
1B 2B		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC Y	0	37. Generate all control codes:	YES
1B 59		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC T	0	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:		Televideo 910	
		ADM 31	
23. Entire cursor line:			
ESC R	0		
1B 52			

Manufacturer:
Terminal:

Paradyne
7811-01 Async

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

30. ESC G 5 gives reverse video and underline.

1. ^A @ ^M
01 40 OD

2. ^A A ^M
01 41 OD

3. ^A B ^M
01 42 OD

4. ^A C ^M
01 43 OD

5. ^A D ^M
01 44 OD

6. ^A E ^M
01 45 OD

7. ^A F ^M
01 46 OD

8. ^A G ^M
01 47 OD

9. ^A H ^M
01 48 OD

10. ^A P ^M
01 50 OD

11. ^A ^\ ^M
01 1C OD

12. ^A ^] ^M
01 1D OD

13. ^A ^^ ^M
01 1E OD

14. ^A ^_ ^M
01 1F OD

15.

16.

1. Manufacturer:		Pickles & Trout
2. Terminal:		CP/M - TRS-80 Models II, 12, 16

SCREEN LAYOUT		VIDEO ATTRIBUTES
3. Number of rows:	24	ON OFF
4. Number of columns:	80	24. Blinking:
5. Top Row:	0	
6. Left Column:	0	
7. Printing in bottom right cause scroll?	PROG	25. Reverse video: ^N ^O OE OF
CURSOR ADDRESSING		26. Underline:
8. Lead-in sequence:		
ESC Y		
1B 59		27. High intensity:
9. Row or column first:	ROW	
10. Numeric form of row and column:		28. Half intensity:
BINARY		
11. Add offset to:	Row: 20 Col: 20	29. Attributes occupy position: NO
12. Separator sequence:		30. Attributes cumulative: NO
		31. All attributes off:
13. End sequence:		^O ^T OF 14
14. Cursor to top row, left column:		CURSOR CONTROL KEYS
ESC Y SP SP		32. Cursor up:
1B 59 20 20		^^
15. 10th Row, 50th Column:		1E
ESC Y) Q		33. Cursor down:
1B 59 29 51		^
16. Delay after positioning:	0	1F
17. Cursor home:		34. Cursor right:
^F		^]
06		1D
		35. Cursor left:
ERASURE	DELAY	^\ 1C
18. Entire screen:		
^L	0	CHARACTER SET
0C		36. Full upper and lower ASCII: YES
19. Cursor to end of screen:		37. Generate all control codes: YES
^B	0	38. Bell or tone sequence:
02		^G 07
20. Beginning of screen to cursor:		
21. Cursor to end of line:		EMULATION
^A	0	39. Conform to ANSI X3.64? NO
01		40. Terminals Emulated:
22. Beginning of line to cursor:		ADM 3A
23. Entire cursor line:		
^K	0	
0B		

Manufacturer:
Terminal:

Pickles & Trout
CP/M - TRS-80 Models II, 12, 16

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-------------|--|
| 1. ^A
01 | 1.-2. This is a version of the CP/M
operating system which runs on the
stated micro-computers. Pickles &
Trout is not the manufacturer of
the micro-computers. |
| 2. ^B
02 | |
| 3. ^D
04 | 7. If line wrap is enabled, yes;
if line wrap is disabled, no. |
| 4. ^L
0C | |
| 5. ^U
15 | |
| 6. ^P
10 | |
| 7. ^C
03 | |
| 8. ^S
13 | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |

1. Manufacturer:	Prime Computer, Inc.
2. Terminal:	PST100

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48
 14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

18. Entire screen: DELAY
 ESC [2 J 0
 1B 5B 32 4A
 19. Cursor to end of screen:
 ESC [J 0
 1B 5B 4A
 20. Beginning of screen to cursor:
 ESC [1 J 0
 1B 5B 31 4A
 21. Cursor to end of line:
 ESC [K 0
 1B 5B 4B
 22. Beginning of line to cursor:
 ESC [1 K 0
 1B 5B 31 4B
 23. Entire cursor line:
 ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 28. Half intensity:
 ESC [2 m ESC [m
 1B 5B 32 6D 1B 5B 6D
 29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:

Manufacturer:
Terminal:

Prime Computer, Inc.
PST100

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O !
1B 4F 21

2. ESC O "
1B 4F 22

3. ESC O #
1B 4F 23

4. ESC O \$
1B 4F 24

5. ESC O %
1B 4F 25

6. ESC O &
1B 4F 26

7. ESC O ^
1B 4F 27

8. ESC O (
1B 4F 28

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

3. Plus 25th status line.

36. 128 ASCII characters, 8 graphic symbols, 64 block graphic symbols.

42. F1-F8 shown unaugmented.
F1-F8 and PF1-PF14 may be used unaugmented, shifted, control or control-shift. All 22 keys are user programmable.

1. Manufacturer:		Qume	
2. Terminal:		QVT-102	
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 8	ESC G 0
ESC =		1B 47 38	1B 47 30
1B 3D		27. High intensity:	
9. Row or column first:	ROW	ESC (	ESC)
10. Numeric form of row and column:		1B 28	1B 29
BINARY		28. Half intensity:	
11. Add offset to:	Row: 1F	ESC)	ESC (
	Col: 1F	1B 29	1B 28
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC *	
		1B 2A	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^V	
16. Delay after positioning:	0	16	
17. Cursor home:		34. Cursor right:	
ESC = SP SP		^L	
1B 3D 20 20		OC	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
ESC *	16	OB	
1B 2A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC Y	2	37. Generate all control codes:	YES
1B 59		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC T	2	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:		Lear Siegler ADM 3A/5	
		Televideo 910	
		Hazeltine 1500	
23. Entire cursor line:			
ESC R	0		
1B 52			

Manufacturer:	Qume
Terminal:	QVT-102

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^A @ ^M
01 40 OD
2. ^A A ^M
01 41 OD
3. ^A B ^M
01 42 OD
4. ^A C ^M
01 43 OD
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

NOTES

16. For current page the execution time is negligible. For different page it will take 20ms waiting time (worst case).
29. High/Half intensity do not occupy screen position.
42. PF1-PF4 shown unshifted.
Shifted:
PF1 SOH D CR
PF2 SOH E CR
PF3 SOH F CR
PF4 SOH G CR
Control:
PF1 SOH H CR
PF2 SOH I CR
PF3 SOH J CR
PF4 SOH K CR

1. Manufacturer:		Qume
2. Terminal:		QVT-108

SCREEN LAYOUT		VIDEO ATTRIBUTES
3. Number of rows:	24	ON OFF
4. Number of columns:	80	24. Blinking:
5. Top Row:	1	ESC G 2 ESC G 0
6. Left Column:	1	1B 47 32 1B 47 30
7. Printing in bottom right cause scroll?	YES	25. Reverse video:
		ESC G 4 ESC G 0
		1B 47 34 1B 47 30
CURSOR ADDRESSING		26. Underline:
8. Lead-in sequence:		ESC G 8 ESC G 0
ESC =		1B 47 38 1B 47 30
1B 3D		
9. Row or column first:	ROW	27. High intensity:
10. Numeric form of row and column:		ESC (ESC)
BINARY		1B 28 1B 29
11. Add offset to:	Row: 1F Col: 1F	28. Half intensity:
		ESC) ESC (
		1B 29 1B 28
12. Separator sequence:		29. Attributes occupy position: YES
		30. Attributes cumulative: NO
		31. All attributes off:
13. End sequence:		ESC *
		1B 2A
14. Cursor to top row, left column:		CURSOR CONTROL KEYS
ESC = SP SP		32. Cursor up:
1B 3D 20 20		^K
15. 10th Row, 50th Column:		OB
ESC =) Q		33. Cursor down:
1B 3D 29 51		^V
16. Delay after positioning:	0	16
17. Cursor home:		34. Cursor right:
ESC = SP SP		^L
1B 3D 20 20		OC
		35. Cursor left:
		^H
		OB
ERASURE DELAY		CHARACTER SET
18. Entire screen:		36. Full upper and lower ASCII: YES
ESC *	16	37. Generate all control codes: YES
1B 2A		38. Bell or tone sequence:
19. Cursor to end of screen:		^G
ESC Y	2	07
1B 59		
20. Beginning of screen to cursor:		EMULATION
		39. Conform to ANSI X3.64? NO
21. Cursor to end of line:		40. Terminals Emulated:
ESC T	2	Televideo 925, 920, 912
1B 54		
22. Beginning of line to cursor:		
23. Entire cursor line:		
ESC R	0	
1B 52		

Manufacturer:	Qume
Terminal:	QVT-108

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^A @ ^M
01 40 OD
2. ^A A ^M
01 41 OD
3. ^A B ^M
01 42 OD
4. ^A C ^M
01 43 OD
5. ^A D ^M
01 44 OD
6. ^A E ^M
01 45 OD
7. ^A F ^M
01 46 OD
8. ^A G ^M
01 47 OD
9. ^A H ^M
01 48 OD
10. ^A I ^M
01 49 OD
11. ^A J ^M
01 4A OD

12.

13.

14.

15.

16.

NOTES

16. For current page the execution time is negligible. For different page it will take 20ms waiting time (worst case).
29. High/Half intensity do not occupy screen position.
42. All 11 function keys are programmable. Refer to operator's manual.

1. Manufacturer:		Radio Shack	
2. Terminal:		TRS-80 DT-1	
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 8	ESC G 0
ESC >		1B 47 38	1B 47 30
1B 3E		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:			
BINARY		28. Half intensity:	
11. Add offset to:	Row: 1F	ESC (	ESC)
	Col: 1F	1B 28	1B 29
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC > SP SP		32. Cursor up:	
1B 3E 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC >) Q		33. Cursor down:	
1B 3E 29 51		^J	
16. Delay after positioning:	0	OA	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	^H	
ESC *	0	08	
1B 2A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC Y	0	37. Generate all control codes:	YES
1B 59		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC T	0	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:		Televideo 910	
		ADDS 25	
		Lear Siegler ADM-5	
23. Entire cursor line:		Hazeltine 1410	

Manufacturer:
Terminal:

Radio Shack
TRS-80 DT-1

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. This terminal emulates any of the four terminals shown in item 40. It has no "native" mode. Codes shown are for Televideo 910.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

1. Manufacturer:	RCA
2. Terminal:	APT VP3801/VP4801

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
ESC Y
1B 59
9. Row or column first: ROW
10. Numeric form of row and column: BINARY
11. Add offset to: Row: 1F
Col: 1F
12. Separator sequence:

13. End sequence:

14. Cursor to top row, left column:
ESC Y SP SP
1B 59 20 20
15. 10th Row, 50th Column:
ESC Y) Q
1B 59 29 51
16. Delay after positioning: 0
17. Cursor home:
ESC H
1B 48

ERASURE

DELAY

18. Entire screen:
ESC j 0
1B 6A
19. Cursor to end of screen:
ESC J 0
1B 4A
20. Beginning of screen to cursor:

21. Cursor to end of line:
ESC K 0
1B 4B
22. Beginning of line to cursor:

23. Entire cursor line:

VIDEO ATTRIBUTES

ON OFF
24. Blinking:
ESC ESC S 4 ^N ^O
1B 1B 53 34 OE OF
25. Reverse video:
ESC ESC S 3 ^N ^O
1B 1B 53 33 OE OF
26. Underline:
27. High intensity:

28. Half intensity:

29. Attributes occupy position: NO
30. Attributes cumulative: NO
31. All attributes off:
ESC ESC S 0
1B 1B 53 30

CURSOR CONTROL KEYS

32. Cursor up:
ESC A
1B 41
33. Cursor down:
ESC B
1B 42
34. Cursor right:
ESC C
1B 43
35. Cursor left:
ESC D
1B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? NO
40. Terminals Emulated:

Manufacturer:
Terminal:

RCA
APT VP3801/VP4801

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

- 1. ESC 1
1B 31
- 2. ESC 2
1B 32
- 3. ESC 3
1B 33
- 4. ESC 4
1B 34
- 5. ESC 5
1B 35
- 6. ESC 6
1B 36
- 7. ESC 7
1B 37
- 8. ESC 8
1B 38

NOTES

- 3. Or 23.
- 4. Or 40.
- 8. User-definable.
- 17. User-definable.
- 18. Or ^L (OCH). User-definable.
- 19. User-definable.
- 21. User-definable.
- 31. Or ^O (OFH). User-definable.
- 32.-35. No dedicated cursor keys.
- 38. User-definable.
- 42. All function keys can be user or host programmed to send any string of up to 31 ASCII characters. The default strings are shown.

RCA APT terminals allow the user to redefine the lead-in sequence for all command functions.

- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

1. Manufacturer:	Sanyo
2. Terminal:	CRX-1100
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC T A ESC T @
6. Left Column: 1	1B 54 41 1B 54 40
7. Printing in bottom right cause scroll? NO	25. Reverse video:
	ESC T D ESC T @
	1B 54 44 1B 54 40
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC T B ESC T @
ESC F	1B 54 42 1B 54 40
1B 46	27. High intensity:
9. Row or column first: ROW	
10. Numeric form of row and column: BINARY	28. Half intensity:
11. Add offset to: Row: 20	ESC) ESC (
Col: 20	1B 29 1B 28
12. Separator sequence:	29. Attributes occupy position: NO
	30. Attributes cumulative: NO
13. End sequence:	31. All attributes off:
	ESC -
	1B 2D
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC F SP SP	32. Cursor up:
1B 46 20 20	ESC A
15. 10th Row, 50th Column:	1B 41
ESC F) Q	33. Cursor down:
1B 46 29 51	ESC B
16. Delay after positioning: 0	1B 42
17. Cursor home:	34. Cursor right:
ESC H	ESC C
1B 48	1B 43
ERASURE DELAY	35. Cursor left:
18. Entire screen:	ESC D
^L 0	1B 44
OC	CHARACTER SET
19. Cursor to end of screen:	36. Full upper and lower ASCII: YES
ESC J 0	37. Generate all control codes: YES
1B 4A	38. Bell or tone sequence:
20. Beginning of screen to cursor:	^G
	07
21. Cursor to end of line:	EMULATION
ESC K 0	39. Conform to ANSI X3.64? NO
1B 4B	40. Terminals Emulated:
22. Beginning of line to cursor:	Teletext 910
	Hazeltine 1410
23. Entire cursor line:	ADDS R25
ESC M 0	
1B 4D	

Manufacturer:	Sanyo
Terminal:	CRX-1100

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|--|
| 1. | 18. Or ESC E (1BH 45H). |
| 2. | 42. 8 ASCII programmable function
keys. |
| 3. | |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |

1. Manufacturer:	Sanyo
2. Terminal:	MBC-1100

SCREEN LAYOUT

3. Number of rows: 25
 4. Number of columns: 80
 5. Top Row: 0
 6. Left Column: 0
 7. Printing in bottom right cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC F
 1B 46
 9. Row or column first: ROW
 10. Numeric form of row and column: BINARY
 11. Add offset to: Row: 20
 Col: 20
 12. Separator sequence:

13. End sequence:

14. Cursor to top row, left column:
 ESC F SP SP
 1B 46 20 20
 15. 10th Row, 50th Column:
 ESC F) Q
 1B 46 29 51
 16. Delay after positioning: 0
 17. Cursor home:
 ESC H
 1B 48

ERASURE

18. Entire screen: DELAY
 ^Z 0
 1A
 19. Cursor to end of screen: 0
 ESC J
 1B 4A
 20. Beginning of screen to cursor:

21. Cursor to end of line: 0
 ESC K
 1B 4B
 22. Beginning of line to cursor:

23. Entire cursor line: 0
 ESC M
 1B 4D

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC t ^A ESC t NUL
 1B 74 01 1B 74 00
 25. Reverse video:
 ESC t ^D ESC t NUL
 1B 74 04 1B 74 00
 26. Underline:
 ESC t ^B ESC t NUL
 1B 74 02 1B 74 00
 27. High intensity:
 28. Half intensity:
 ESC t @ ESC t NUL
 1B 74 40 1B 74 00
 29. Attributes occupy position: NO
 30. Attributes cumulative: NO
 31. All attributes off:
 ESC t NUL
 1B 74 00

CURSOR CONTROL KEYS

32. Cursor up:
 ESC A
 1B 41
 33. Cursor down:
 ESC B
 1B 42
 34. Cursor right:
 ESC C
 1B 43
 35. Cursor left:
 ESC D
 1B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? NO
 40. Terminals Emulated:
 ADM-3A

Manufacturer:
Terminal:

Sanyo
MBC-1100

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. 8. Or ESC = (1BH 3DH).
18. Or ESC E (1BH 45H).
42. 15 function keys.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

1. Manufacturer:	Sanyo
2. Terminal:	MBC-1200
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 33	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 0	
6. Left Column: 0	
7. Printing in bottom right cause scroll? YES	25. Reverse video:
	ESC t ^D ESC t NUL
	1B 74 04 1B 74 00
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC t ^B ESC t NUL
ESC =	1B 74 02 1B 74 00
1B 3D	27. High intensity:
9. Row or column first: ROW	
10. Numeric form of row and column: BINARY	28. Half intensity:
11. Add offset to: Row: 20	
Col: 20	
12. Separator sequence:	29. Attributes occupy position: NO
	30. Attributes cumulative: NO
13. End sequence:	31. All attributes off:
	ESC t NUL
	1B 74 00
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC F SP SP	32. Cursor up:
1B 46 20 20	
15. 10th Row, 50th Column:	33. Cursor down:
ESC F) Q	
1B 46 29 51	34. Cursor right:
16. Delay after positioning: 0	
17. Cursor home:	35. Cursor left:
ESC F SP SP	
1B 46 20 20	
ERASURE DELAY	
18. Entire screen:	CHARACTER SET
^Z 0	36. Full upper and lower ASCII: YES
1A	37. Generate all control codes: YES
19. Cursor to end of screen:	38. Bell or tone sequence:
	^G
20. Beginning of screen to cursor:	07
21. Cursor to end of line:	EMULATION
ESC T 0	39. Conform to ANSI X3.64? NO
1B 54	40. Terminals Emulated:
22. Beginning of line to cursor:	
23. Entire cursor line:	
ESC B 0	
1B 42	

Manufacturer:
Terminal:

Sanyo
MBC-1200

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

3. Or 40.

36. Dot graphics computer.

42. 15 function keys.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Sanyo
2. Terminal:	MBC-4000 (CP/M-86 O.S.)

SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 25	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 0	ESC @
6. Left Column: 0	1B 60 1B 40
7. Printing in bottom right cause scroll? YES	25. Reverse video: ESC P ESC @
	1B 50 1B 40
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence: ESC F 1B 46	27. High intensity: ESC G ESC C
9. Row or column first: ROW	1B 47 1B 43
10. Numeric form of row and column: BINARY	28. Half intensity: ESC A ESC C
11. Add offset to: Row: 20 Col: 20	1B 41 1B 43
12. Separator sequence:	29. Attributes occupy position: NO
	30. Attributes cumulative: NO
	31. All attributes off: ESC C 1B 43
13. End sequence:	
14. Cursor to top row, left column: ESC F SP SP 1B 46 20 20	CURSOR CONTROL KEYS
15. 10th Row, 50th Column: ESC F) Q 1B 46 29 51	32. Cursor up: ESC A 1B 41
16. Delay after positioning: 0	33. Cursor down: ESC B 1B 42
17. Cursor home: ESC H 1B 48	34. Cursor right: ESC C 1B 43
ERASURE DELAY	35. Cursor left: ESC D 1B 44
18. Entire screen: ^Z 0	CHARACTER SET
1A	36. Full upper and lower ASCII: YES
19. Cursor to end of screen: ESC J 0	37. Generate all control codes: YES
1B 4A	38. Bell or tone sequence: ^G 07
20. Beginning of screen to cursor:	EMULATION
21. Cursor to end of line: ESC K 0	39. Conform to ANSI X3.64? NO
1B 4B	40. Terminals Emulated:
22. Beginning of line to cursor:	
23. Entire cursor line: ESC M 0	
1B 4D	

Manufacturer:
Terminal:

Sanyo
MBC-4000 (CP/M-86 O.S.)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

8. Or ESC = (1BH 3DH).

18. Or ESC E (1BH 45H).

42. 15 ASCII programmable function
keys.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Sony Corporation of America		
2. Terminal:	SMC-70 (IBM 3101)		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	25	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC 3 I	ESC 3 H
6. Left Column:	1	1B 33 49	1B 33 48
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC 3 E	ESC 3 D
		1B 33 45	1B 33 44
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:			
	ESC Y		
	1B 59	27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
	BINARY		
11. Add offset to:	Row: 1F	29. Attributes occupy position:	NO
	Col: 1F	30. Attributes cumulative:	YES
12. Separator sequence:		31. All attributes off:	
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
	ESC Y SP SP	32. Cursor up:	
	1B 59 20 20		^W
15. 10th Row, 50th Column:			17
	ESC Y) Q	33. Cursor down:	
	1B 59 29 51		^\ 1C
16. Delay after positioning:	0	34. Cursor right:	
17. Cursor home:			^Y 19
	ESC H	35. Cursor left:	
	1B 48		^V 16
ERASURE		CHARACTER SET	
18. Entire screen:	DELAY	36. Full upper and lower ASCII:	YES
	ESC L	37. Generate all control codes:	YES
	1B 4C	38. Bell or tone sequence:	
19. Cursor to end of screen:			^G 07
	ESC J		
	1B 4A		
20. Beginning of screen to cursor:			
21. Cursor to end of line:		EMULATION	
	ESC I	39. Conform to ANSI X3.64?	NO
	1B 49	40. Terminals Emulated:	
22. Beginning of line to cursor:			IBM 3101 emulation built into CP/M. Multiterminal emulator: DEC VT100, Lear Siegler ADM 3A, ADM 31, Televideo 910, ADDS Viewpoint, Hazeltine Esprit, IBM 3101, Dasher 0200.
23. Entire cursor line:			

Manufacturer:
Terminal:

Sony Corporation of America
SMC-70 (IBM 3101)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^A
01
2. ^B
02
3. ^C
03
4. ^D
04
5. ^E
05
6. ^I
09
7. ^J
0A
8. ^K
0B
9. ^L
0C
10. ^M
0D
11. ^Q
11
12. ^R
12
13. ^S
13
14. ^T
14
15. ^U
15
- 16.

NOTES

18. Or FF (0CH).
42. F1-F5 shown unshifted.
F6-10 are F1-F5 shifted.
F11-F15 are CTRL F1-F5.

1. Manufacturer:	Soroc
2. Terminal:	Challenger Series
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC ^G ESC ^D
6. Left Column: 1	1B 07 1B 04
7. Printing in bottom right cause scroll? YES	25. Reverse video: ESC ^F ESC ^D
	1B 06 1B 04
CURSOR ADDRESSING	26. Underline: ESC ^U ESC ^D
8. Lead-in sequence: ESC = 1B 3D	1B 15 1B 04
9. Row or column first: ROW	27. High intensity:
10. Numeric form of row and column: BINARY	
11. Add offset to: Row: 1F Col: 1F	28. Half intensity: ESC) ESC (
12. Separator sequence:	1B 29 1B 28
	29. Attributes occupy position: YES
	30. Attributes cumulative: NO
13. End sequence:	31. All attributes off: ESC ^D
	1B 04
14. Cursor to top row, left column: ESC = SP SP 1B 3D 20 20	CURSOR CONTROL KEYS
15. 10th Row, 50th Column: ESC =) Q 1B 3D 29 51	32. Cursor up: ^K 0B
16. Delay after positioning: 0	33. Cursor down: ^J 0A
17. Cursor home: ^^ 1E	34. Cursor right: ^L 0C
	35. Cursor left: ^H 08
ERASURE DELAY	
18. Entire screen: ESC * 1B 2A 0	CHARACTER SET
19. Cursor to end of screen: ESC Y 1B 59 0	36. Full upper and lower ASCII: YES
20. Beginning of screen to cursor:	37. Generate all control codes: YES
	38. Bell or tone sequence: ^G 07
21. Cursor to end of line: ESC T 1B 54 0	EMULATION
22. Beginning of line to cursor:	39. Conform to ANSI X3.64? YES
23. Entire cursor line:	40. Terminals Emulated: Televideo 925 (Challenger 525) Lear Siegler ADM1, 2, 3 (Challenger 550) Tandum 6510 (Challenger 550)

Manufacturer:
Terminal:

Soroc
Challenger Series

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

30. Terminal has combination
attribute codes.

1. ^A @ ^M
01 40 OD
2. ^A A ^M
01 41 OD
3. ^A B ^M
01 42 OD
4. ^A C ^M
01 43 OD
5. ^A D ^M
01 44 OD
6. ^A E ^M
01 45 OD
7. ^A F ^M
01 46 OD
8. ^A G ^M
01 47 OD
9. ^A H ^M
01 48 OD
10. ^A I ^M
01 49 OD
11. ^A J ^M
01 4A OD
12. ^A K ^M
01 4B OD
13. ^A L ^M
01 4C OD
14. ^A M ^M
01 4D OD
15. ^A N ^M
01 4E OD
16. ^A O ^M
01 4F OD

1. Manufacturer:	Tab Products		
2. Terminal:	TAB 132/15		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC [5 m	ESC [m
6. Left Column:	1	1B 5B 35 6D	1B 5B 6D
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
		1B 5B 34 6D	1B 5B 6D
9. Row or column first:	ROW	27. High intensity:	
10. Numeric form of row and column:		ESC [1 m	ESC [m
	VARIABLE-LENGTH ASCII	1B 5B 31 6D	1B 5B 6D
11. Add offset to:	Row: 0 Col: 0	28. Half intensity:	
12. Separator sequence:		29. Attributes occupy position:	NO
	; 3B	30. Attributes cumulative:	YES
13. End sequence:		31. All attributes off:	
	H 48	ESC [m	1B 5B 6D
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC [1 ; 1 H		32. Cursor up:	
1B 5B 31 3B 31 48		ESC [A	1B 5B 41
15. 10th Row, 50th Column:		33. Cursor down:	
ESC [1 0 ; 5 0 H		ESC [B	1B 5B 42
1B 5B 31 30 3B 35 30 48		34. Cursor right:	
16. Delay after positioning:	0	ESC [C	1B 5B 43
17. Cursor home:		35. Cursor left:	
	ESC [H	ESC [D	1B 5B 44
	1B 5B 48		
ERASURE		CHARACTER SET	
18. Entire screen:	DELAY	36. Full upper and lower ASCII:	YES
ESC [2 J	0	37. Generate all control codes:	YES
1B 5B 32 4A		38. Bell or tone sequence:	
19. Cursor to end of screen:		^G	07
ESC [J	0		
1B 5B 4A		EMULATION	
20. Beginning of screen to cursor:		39. Conform to ANSI X3.64?	YES
ESC [1 J	0	40. Terminals Emulated:	
1B 5B 31 4A		DEC VT100, VT132, VT52	
21. Cursor to end of line:			
ESC [K	0		
1B 5B 4B			
22. Beginning of line to cursor:			
ESC [1 K	0		
1B 5B 31 4B			
23. Entire cursor line:			
ESC [2 K	0		
1B 5B 32 4B			

Manufacturer:
Terminal:

Tab Products
TAB 132/15

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O P
1B 4F 50

2. ESC O Q
1B 4F 51

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

4. Or 132.

42. 14 user-programmable function
keys.

8 host-programmable function keys.

1. Manufacturer:	Tandberg Data, Inc.
2. Terminal:	TDV 2220

SCREEN LAYOUT

3. Number of rows: 25
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column:
VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0
12. Separator sequence:
;
3B
13. End sequence:
H
48
14. Cursor to top row, left column:
ESC [1 ; 1 H
1B 5B 31 3B 31 48
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 H
1B 5B 31 30 3B 35 30 48
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE

DELAY

18. Entire screen:
ESC [2 J 0
1B 5B 32 4A
19. Cursor to end of screen:
ESC [J 0
1B 5B 4A
20. Beginning of screen to cursor:
ESC [1 J 0
1B 5B 31 4A
21. Cursor to end of line:
ESC [K 0
1B 5B 4B
22. Beginning of line to cursor:
ESC [1 K 0
1B 5B 31 4B
23. Entire cursor line:
ESC [2 K 0
1B 5B 32 4B

VIDEO ATTRIBUTES

ON

OFF

24. Blinking:
ESC [5 m ESC [m
1B 5B 35 6D 1B 5B 6D
25. Reverse video:
ESC [7 m ESC [m
1B 5B 37 6D 1B 5B 6D
26. Underline:
ESC [4 m ESC [m
1B 5B 34 6D 1B 5B 6D
27. High intensity:
28. Half intensity:
ESC [2 m ESC [m
1B 5B 32 6D 1B 5B 6D
29. Attributes occupy position: NO
30. Attributes cumulative: YES
31. All attributes off:
ESC [m
1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:

Manufacturer:
Terminal:

Tandberg Data, Inc.
TDV 2220

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. All function keys programmable.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	TEC Inc.
2. Terminal:	ET 80B

SCREEN LAYOUT

3. Number of rows:	24
4. Number of columns:	80
5. Top Row:	1
6. Left Column:	1
7. Printing in bottom right cause scroll?	PROG

CURSOR ADDRESSING

8. Lead-in sequence:	ESC [	1B 5B
9. Row or column first:	ROW	
10. Numeric form of row and column:	VARIABLE-LENGTH ASCII	
11. Add offset to:	Row: 0	Col: 0
12. Separator sequence:	;	3B
13. End sequence:	H	48

14. Cursor to top row, left column:	ESC [1 ; 1 H	1B 5B 31 3B 31 48
15. 10th Row, 50th Column:	ESC [1 0 ; 5 0 H	1B 5B 31 30 3B 35 30 48
16. Delay after positioning:	0	
17. Cursor home:	ESC [H	1B 5B 48

ERASURE

DELAY

18. Entire screen:	ESC [2 J	1B 5B 32 4A	0
19. Cursor to end of screen:	ESC [J	1B 5B 4A	0
20. Beginning of screen to cursor:	ESC [1 J	1B 5B 31 4A	0
21. Cursor to end of line:	ESC [K	1B 5B 4B	0
22. Beginning of line to cursor:	ESC [1 K	1B 5B 31 4B	0
23. Entire cursor line:	ESC [2 K	1B 5B 32 4B	0

VIDEO ATTRIBUTES

24. Blinking:	ON	ESC [5 m	ESC [m
25. Reverse video:	ESC [7 m	ESC [m	
26. Underline:	ESC [4 m	ESC [m	
27. High intensity:	ESC [7 m	ESC [m	

28. Half intensity:

29. Attributes occupy position:	NO
30. Attributes cumulative:	YES
31. All attributes off:	ESC [m
	1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:	ESC [A	1B 5B 41
33. Cursor down:	ESC [B	1B 5B 42
34. Cursor right:	ESC [C	1B 5B 43
35. Cursor left:	ESC [D	1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII:	YES
37. Generate all control codes:	YES
38. Bell or tone sequence:	^G
	07

EMULATION

39. Conform to ANSI X3.64?	YES
40. Terminals Emulated:	

Manufacturer:

TEC Inc.

Terminal:

ET 80B

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

4. Or 132.

42. F1-F15 programmable to 17 chars.

F16 programmable to 60 chars.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Tektronix
2. Terminal:	4105, 4107, 4109 (ANSI mode)

SCREEN LAYOUT

3. Number of rows: 30
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? NO

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column: VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0
12. Separator sequence:
;
3B
13. End sequence:
H
48

14. Cursor to top row, left column:
ESC [1 ; 1 H
1B 5B 31 3B 31 48
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 H
1B 5B 31 30 3B 35 30 48
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE

DELAY

18. Entire screen:
ESC [2 J
1B 5B 32 4A
19. Cursor to end of screen:
ESC [J
1B 5B 4A
20. Beginning of screen to cursor:
ESC [1 J
1B 5B 31 4A
21. Cursor to end of line:
ESC [K
1B 5B 4B
22. Beginning of line to cursor:
ESC [1 K
1B 5B 31 4B
23. Entire cursor line:
ESC [2 K
1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
24. Blinking:
ESC [5 m ESC [m
1B 5B 35 6D 1B 5B 6D
25. Reverse video:
ESC [7 m ESC [m
1B 5B 37 6D 1B 5B 6D
26. Underline:
ESC [4 m ESC [m
1B 5B 34 6D 1B 5B 6D
27. High intensity:
ESC [1 m ESC [m
1B 5B 31 6D 1B 5B 6D
28. Half intensity:
ESC [3 m ESC [m
1B 5B 33 6D 1B 5B 6D
29. Attributes occupy position: NO
30. Attributes cumulative: YES
31. All attributes off:
ESC [m
1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:
DEC VT100
DEC VT52

Manufacturer:

Tektronix

Terminal:

4105, 4107, 4109 (ANSI mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|--|
| 1. | 3. 30 for 4105,
32 for 4107, 4109. |
| 2. | 4. Or 132 (all models). |
| 3. | 42. All keys including function keys
are definable by either the host
or operator. |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |

1. Manufacturer:	Teleray		
2. Terminal:	Model 100		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	132	24. Blinking:	
5. Top Row:	1	ESC [5 m	ESC [m
6. Left Column:	1	1B 5B 35 6D	1B 5B 6D
7. Printing in bottom right cause scroll?	NO	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
		1B 5B 34 6D	1B 5B 6D
9. Row or column first:	ROW	27. High intensity:	
10. Numeric form of row and column:		ESC [1 m	ESC [m
	VARIABLE-LENGTH ASCII	1B 5B 31 6D	1B 5B 6D
11. Add offset to:	Row: 0	28. Half intensity:	
	Col: 0		
12. Separator sequence:		29. Attributes occupy position:	NO
	;	30. Attributes cumulative:	YES
	3B	31. All attributes off:	
13. End sequence:		ESC [m	
	H	1B 5B 6D	
	48		
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC [1 ; 1 H		32. Cursor up:	
1B 5B 31 3B 31 48		ESC [A	
15. 10th Row, 50th Column:		1B 5B 41	
ESC [1 0 ; 5 0 H		33. Cursor down:	
1B 5B 31 30 3B 35 30 48		ESC [B	
16. Delay after positioning:	0	1B 5B 42	
17. Cursor home:		34. Cursor right:	
ESC [H		ESC [C	
1B 5B 48		1B 5B 43	
		35. Cursor left:	
ERASURE		ESC [D	
	DELAY	1B 5B 44	
18. Entire screen:		CHARACTER SET	
ESC [2 J	0	36. Full upper and lower ASCII:	YES
1B 5B 32 4A		37. Generate all control codes:	YES
19. Cursor to end of screen:		38. Bell or tone sequence:	
ESC [J	0	^G	
1B 5B 4A		07	
20. Beginning of screen to cursor:		EMULATION	
ESC [1 J	0	39. Conform to ANSI X3.64?	YES
1B 5B 31 4A		40. Terminals Emulated:	
21. Cursor to end of line:		DEC VT100, VT101, VT131, VT132,	
ESC [K	0	etc., VT52	
1B 5B 4B			
22. Beginning of line to cursor:			
ESC [1 K	0		
1B 5B 31 4B			
23. Entire cursor line:			
ESC [2 K	0		
1B 5B 32 4B			

Manufacturer:
Terminal:

Teleray
Model 100

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

13. Or f (66H).

42. All function keys user-defined.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Teleray
2. Terminal:	Model 16

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column: VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48
 14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

18. Entire screen: DELAY
 ESC [2 J 0
 1B 5B 32 4A
 19. Cursor to end of screen:
 ESC [J 0
 1B 5B 4A
 20. Beginning of screen to cursor:
 ESC [1 J 0
 1B 5B 31 4A
 21. Cursor to end of line:
 ESC [K 0
 1B 5B 4B
 22. Beginning of line to cursor:
 ESC [1 K 0
 1B 5B 31 4B
 23. Entire cursor line:
 ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 28. Half intensity:
 ESC [2 m ESC [m
 1B 5B 32 6D 1B 5B 6D
 29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:
 DEC VT100 family.

Manufacturer:
Terminal:

Teleray
Model 16

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|----|-------------------------------------|
| 1. | 3. 24 to 555. |
| | 4. 80 to 255. |
| | 13. Or f (66H). |
| 2. | 42. All function keys user-defined. |

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Teleray
2. Terminal:	Model 7

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right
 cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ; 3B
 13. End sequence:
 H 48

14. Cursor to top row, left column:

ESC [1 ; 1 H
 1B 5B 31 3B 31 48

15. 10th Row, 50th Column:

ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48

16. Delay after positioning: 0

17. Cursor home:

ESC [H
 1B 5B 48

ERASURE

DELAY

18. Entire screen:

ESC [2 J 0
 1B 5B 32 4A

19. Cursor to end of screen:

ESC [J 0
 1B 5B 4A

20. Beginning of screen to cursor:

ESC [1 J 0
 1B 5B 31 4A

21. Cursor to end of line:

ESC [K 0
 1B 5B 4B

22. Beginning of line to cursor:

ESC [1 K 0
 1B 5B 31 4B

23. Entire cursor line:

ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:

28. Half intensity:

ESC [2 m ESC [m
 1B 5B 32 6D 1B 5B 6D

29. Attributes occupy position: NO

30. Attributes cumulative: YES

31. All attributes off:

ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:

ESC [A
 1B 5B 41

33. Cursor down:

ESC [B
 1B 5B 42

34. Cursor right:

ESC [C
 1B 5B 43

35. Cursor left:

ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES

37. Generate all control codes: YES

38. Bell or tone sequence:

^G
 07

EMULATION

39. Conform to ANSI X3.64? YES

40. Terminals Emulated:

All ASCII asynchronous, non-pollled. Protocol is user definable.

Manufacturer:
Terminal:

Teleray
Model 7

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- 1. 3. 24 to 555.
4. 80 to 255.
13. Or f (66H).
- 2. 42. All function keys user-defined.

All sequences may be user
programmed to be the characters/
sequences of his choice.

- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

1. Manufacturer:		Teletype Corporation	
2. Terminal:		5410	
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC [5 m	ESC [m
6. Left Column:	1	1B 5B 35 6D	1B 5B 6D
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC [4 m	ESC [m
		1B 5B 34 6D	1B 5B 6D
9. Row or column first:	ROW	27. High intensity:	
10. Numeric form of row and column:		28. Half intensity:	
VARIABLE-LENGTH ASCII		ESC [2 m	
11. Add offset to:	Row: 0 Col: 0	1B 5B 32 6D	
12. Separator sequence:		29. Attributes occupy position: NO	
		30. Attributes cumulative: YES	
		31. All attributes off:	
13. End sequence:		ESC [m	
		1B 5B 6D	
		CURSOR CONTROL KEYS	
14. Cursor to top row, left column:		32. Cursor up:	
ESC [1 ; 1 H		ESC [A	
1B 5B 31 3B 31 48		1B 5B 41	
15. 10th Row, 50th Column:		33. Cursor down:	
ESC [1 0 ; 5 0 H		ESC [B	
1B 5B 31 30 3B 35 30 48		1B 5B 42	
16. Delay after positioning:	0	34. Cursor right:	
17. Cursor home:		ESC [C	
		1B 5B 43	
		35. Cursor left:	
		ESC [D	
		1B 5B 44	
ERASURE		CHARACTER SET	
18. Entire screen:	DELAY	36. Full upper and lower ASCII: YES	
ESC [2 J	0	37. Generate all control codes: YES	
1B 5B 32 4A		38. Bell or tone sequence:	
19. Cursor to end of screen:		^G	
ESC [J	0	07	
1B 5B 4A		EMULATION	
20. Beginning of screen to cursor:		39. Conform to ANSI X3.64? YES	
ESC [1 J	0	40. Terminals Emulated:	
1B 5B 31 4A			
21. Cursor to end of line:			
ESC [K	0		
1B 5B 4B			
22. Beginning of line to cursor:			
ESC [1 K	0		
1B 5B 31 4B			
23. Entire cursor line:			
ESC [2 K	0		
1B 5B 32 4B			

Manufacturer:
Terminal:

Teletype Corporation
5410

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. 3. 24 text lines plus host addressable
25th line. Lines 26 and 27 contain
downloadable and user-programmable
labels for PF keys.
2. 4. Or 132.
3. 36. 5 resident character sets:
United States ASCII
United Kingdom
Line Drawing Graphics
Securities Industry
Mosaics
4. 42. 16 programmable function keys,
accessible 8 at a time.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

1. Manufacturer:	Teletype Corporation
2. Terminal:	5420

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right
 cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ; 3B
 13. End sequence:
 H 48

14. Cursor to top row, left column:
 ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48
 16. Delay after positioning: 0
 17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

18. Entire screen: DELAY
 ESC [2 J 0
 1B 5B 32 4A
 19. Cursor to end of screen:
 ESC [J 0
 1B 5B 4A
 20. Beginning of screen to cursor:
 ESC [1 J 0
 1B 5B 31 4A
 21. Cursor to end of line:
 ESC [K 0
 1B 5B 4B
 22. Beginning of line to cursor:
 ESC [1 K 0
 1B 5B 31 4B
 23. Entire cursor line:
 ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 28. Half intensity:
 ESC [2 m
 1B 5B 32 6D
 29. Attributes occupy position: NO
 30. Attributes cumulative: YES
 31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:

Manufacturer:
Terminal:

Teletype Corporation
5420

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. 3. 24 text lines plus host addressable
25th line. Lines 26 and 27 contain
downloadable and user-programmable
labels for PF keys.
2. 4. Or 132.
3. 36. Plus 96 graphics characters.
42. 16 programmable function keys,
accessible 8 at a time.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

1. Manufacturer:	Televideo
2. Terminal:	910
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC G 2 ESC G 0
6. Left Column: 1	1B 47 32 1B 47 30
7. Printing in bottom right cause scroll? YES	25. Reverse video:
	ESC G 4 ESC G 0
	1B 47 34 1B 47 30
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC G 8 ESC G 0
ESC =	1B 47 38 1B 47 30
1B 3D	27. High intensity:
9. Row or column first: ROW	ESC G 0 ESC G 0
10. Numeric form of row and column: BINARY	1B 47 30 1B 47 30
11. Add offset to: Row: 1F Col: 1F	28. Half intensity:
12. Separator sequence:	ESC) ESC (
	1B 29 1B 28
13. End sequence:	29. Attributes occupy position: YES
	30. Attributes cumulative: NO
	31. All attributes off:
	ESC G 0
	1B 47 30
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC = SP SP	32. Cursor up:
1B 3D 20 20	^K
15. 10th Row, 50th Column:	OB
ESC =) Q	33. Cursor down:
1B 3D 29 51	^J
16. Delay after positioning: 0	OA
17. Cursor home:	34. Cursor right:
^^	^L
1E	OC
ERASURE DELAY	35. Cursor left:
18. Entire screen:	^H
^Z	OB
1A	
19. Cursor to end of screen:	CHARACTER SET
ESC Y	36. Full upper and lower ASCII: YES
1B 59	37. Generate all control codes: YES
20. Beginning of screen to cursor:	38. Bell or tone sequence:
	^G
	07
21. Cursor to end of line:	EMULATION
ESC T	39. Conform to ANSI X3.64? NO
1B 54	40. Terminals Emulated:
22. Beginning of line to cursor:	ADDS Regent 25
	Lear Siegler ADM 3A/5
	Hazeltine 1410
23. Entire cursor line:	
^M ESC T	
OD 1B 54	

Manufacturer:	Televideo
Terminal:	910

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

1. Manufacturer:	Televideo
2. Terminal:	910+
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC G 2 ESC G 0
6. Left Column: 1	1B 47 32 1B 47 30
7. Printing in bottom right cause scroll? YES	25. Reverse video:
	ESC G 4 ESC G 0
	1B 47 34 1B 47 30
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC G 8 ESC G 0
ESC =	1B 47 38 1B 47 30
1B 3D	27. High intensity:
9. Row or column first: ROW	ESC G 0 ESC G 0
10. Numeric form of row and column: BINARY	1B 47 30 1B 47 30
11. Add offset to: Row: 1F Col: 1F	28. Half intensity:
12. Separator sequence:	ESC) ESC (
	1B 29 1B 28
13. End sequence:	29. Attributes occupy position: YES
	30. Attributes cumulative: NO
	31. All attributes off:
	ESC G 0
	1B 47 30
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC = SP SP	32. Cursor up:
1B 3D 20 20	^K
15. 10th Row, 50th Column:	OB
ESC =) Q	33. Cursor down:
1B 3D 29 51	^J
16. Delay after positioning: 0	OA
17. Cursor home:	34. Cursor right:
^^	^L
1E	OC
ERASURE DELAY	35. Cursor left:
18. Entire screen:	^H
^Z	08
1A	
19. Cursor to end of screen:	CHARACTER SET
ESC Y	36. Full upper and lower ASCII: YES
1B 59	37. Generate all control codes: YES
20. Beginning of screen to cursor:	38. Bell or tone sequence:
	^G
	07
21. Cursor to end of line:	EMULATION
ESC T	39. Conform to ANSI X3.64? NO
1B 54	40. Terminals Emulated:
22. Beginning of line to cursor:	
23. Entire cursor line:	
^M ESC T	
OD 1B 54	

Manufacturer:
Terminal:

Televideo
910+

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Televideo
2. Terminal:	914

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right
 cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC =
 1B 3D
 9. Row or column first: ROW
 10. Numeric form of row and column:
 BINARY
 11. Add offset to: Row: 1F
 Col: 1F
 12. Separator sequence:
 13. End sequence:

14. Cursor to top row, left column:
 ESC = SP SP
 1B 3D 20 20
 15. 10th Row, 50th Column:
 ESC =) Q
 1B 3D 29 51
 16. Delay after positioning: 0
 17. Cursor home:
 ^
 1E

ERASURE

18. Entire screen: DELAY
 ^Z 0
 1A
 19. Cursor to end of screen:
 ESC Y 0
 1B 59
 20. Beginning of screen to cursor:

21. Cursor to end of line:
 ESC T 0
 1B 54
 22. Beginning of line to cursor:

23. Entire cursor line:
 ^M ESC T 0
 OD 1B 54

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC G 2 ESC G 0
 1B 47 32 1B 47 30
 25. Reverse video:
 ESC G 4 ESC G 0
 1B 47 34 1B 47 30
 26. Underline:
 ESC G 8 ESC G 0
 1B 47 38 1B 47 30
 27. High intensity:
 ESC G 0 ESC G 0
 1B 47 30 1B 47 30
 28. Half intensity:
 ESC) ESC (
 1B 29 1B 28
 29. Attributes occupy position: YES
 30. Attributes cumulative: NO
 31. All attributes off:
 ESC G 0
 1B 47 30

CURSOR CONTROL KEYS

32. Cursor up:
 ^K
 OB
 33. Cursor down:
 ^J
 OA
 34. Cursor right:
 ^L
 OC
 35. Cursor left:
 ^H
 OB

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? NO
 40. Terminals Emulated:
 ADDS Viewpoint A-2

Manufacturer:
Terminal:

Televideo
914

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ^A @ ^M
01 40 0D

2. ^A A ^M
01 41 0D

3. ^A B ^M
01 42 0D

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Televideo
2. Terminal:	924

SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC G 2
6. Left Column: 1	1B 47 32
7. Printing in bottom right cause scroll? YES	25. Reverse video:
	ESC G 4
	1B 47 34
	26. Underline:
CURSOR ADDRESSING	ESC G 8
8. Lead-in sequence:	1B 47 38
ESC =	27. High intensity:
1B 3D	ESC G 0
9. Row or column first: ROW	1B 47 30
10. Numeric form of row and column: BINARY	28. Half intensity:
11. Add offset to: Row: 1F	ESC)
Col: 1F	1B 29
12. Separator sequence:	29. Attributes occupy position: YES
	30. Attributes cumulative: NO
	31. All attributes off:
13. End sequence:	ESC G 0
	1B 47 30
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC = SP SP	32. Cursor up:
1B 3D 20 20	^K
15. 10th Row, 50th Column:	OB
ESC =) Q	33. Cursor down:
1B 3D 29 51	^J
16. Delay after positioning: 0	OA
17. Cursor home:	34. Cursor right:
^^	^L
1E	OC
ERASURE DELAY	35. Cursor left:
18. Entire screen:	^H
^Z	08
1A	CHARACTER SET
19. Cursor to end of screen:	36. Full upper and lower ASCII: YES
ESC Y	37. Generate all control codes: YES
1B 59	38. Bell or tone sequence:
20. Beginning of screen to cursor:	^G
	07
21. Cursor to end of line:	EMULATION
ESC T	39. Conform to ANSI X3.64? NO
1B 54	40. Terminals Emulated:
22. Beginning of line to cursor:	
23. Entire cursor line:	
^M ESC T	
OD 1B 54	

Manufacturer:	Televideo
Terminal:	924

41. Information provided by:
MANUFACTURER

42. PROGRAM	FUNCTION KEYS	NOTES
1. ^A @ ^M		
01 40	OD	
2. ^A A ^M		
01 41	OD	
3. ^A B ^M		
01 42	OD	
4. ^A C ^M		
01 43	OD	
5. ^A D ^M		
01 44	OD	
6. ^A E ^M		
01 45	OD	
7. ^A F ^M		
01 46	OD	
8. ^A G ^M		
01 47	OD	
9. ^A H ^M		
01 48	OD	
10. ^A I ^M		
01 49	OD	
11. ^A J ^M		
01 4A	OD	
12. ^A K ^M		
01 4B	OD	
13. ^A L ^M		
01 4C	OD	
14. ^A M ^M		
01 4D	OD	
15. ^A N ^M		
01 4E	OD	
16. ^A O ^M		
01 4F	OD	

1. Manufacturer:		Teletideo	
2. Terminal:		925	
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 8	ESC G 0
ESC =		1B 47 38	1B 47 30
1B 3D		27. High intensity:	
9. Row or column first:	ROW	ESC G 0	ESC G 0
10. Numeric form of row and column:		1B 47 30	1B 47 30
BINARY		28. Half intensity:	
11. Add offset to:	Row: 1F	ESC)	ESC (
	Col: 1F	1B 29	1B 28
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^J	
16. Delay after positioning:	0	OA	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^Z	0	08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC Y	0	37. Generate all control codes:	YES
1B 59		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC T	0	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:		TVI 912/920	
23. Entire cursor line:			
^M ESC T	0		
0D 1B 54			

Manufacturer:
Terminal:

Televideo
925

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ^A @ ^M
01 40 OD

2. ^A A ^M
01 41 OD

3. ^A B ^M
01 42 OD

4. ^A C ^M
01 43 OD

5. ^A D ^M
01 44 OD

6. ^A E ^M
01 45 OD

7. ^A F ^M
01 46 OD

8. ^A G ^M
01 47 OD

9. ^A H ^M
01 48 OD

10. ^A I ^M
01 49 OD

11. ^A J ^M
01 4A OD

12.

13.

14.

15.

16.

1. Manufacturer:	Televideo
2. Terminal:	950

SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC G 2 ESC G 0
6. Left Column: 1	1B 47 32 1B 47 30
7. Printing in bottom right cause scroll? YES	25. Reverse video:
	ESC G 4 ESC G 0
	1B 47 34 1B 47 30
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC G 8 ESC G 0
ESC =	1B 47 38 1B 47 30
1B 3D	27. High intensity:
9. Row or column first: ROW	ESC G 0 ESC G 0
10. Numeric form of row and column: BINARY	1B 47 30 1B 47 30
11. Add offset to: Row: 1F Col: 1F	28. Half intensity:
	ESC) ESC (
	1B 29 1B 28
12. Separator sequence:	29. Attributes occupy position: YES
	30. Attributes cumulative: NO
	31. All attributes off:
13. End sequence:	ESC G 0
	1B 47 30
14. Cursor to top row, left column:	CURSOR CONTROL KEYS
ESC = SP SP	32. Cursor up:
1B 3D 20 20	^K
15. 10th Row, 50th Column:	OB
ESC =) Q	33. Cursor down:
1B 3D 29 51	^J
16. Delay after positioning: 0	OA
17. Cursor home:	34. Cursor right:
^^	^L
1E	OC
ERASURE DELAY	35. Cursor left:
18. Entire screen:	^H
^Z 0	08
1A	CHARACTER SET
19. Cursor to end of screen:	36. Full upper and lower ASCII: YES
ESC Y 0	37. Generate all control codes: YES
1B 59	38. Bell or tone sequence:
20. Beginning of screen to cursor:	^G
	07
21. Cursor to end of line:	EMULATION
ESC T 0	39. Conform to ANSI X3.64? NO
1B 54	40. Terminals Emulated:
22. Beginning of line to cursor:	
23. Entire cursor line:	
^M ESC T 0	
OD 1B 54	

Manufacturer:
Terminal:

Televideo
950

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS	NOTES
1. ^A @ ^M 01 40 OD	
2. ^A A ^M 01 41 OD	
3. ^A B ^M 01 42 OD	
4. ^A C ^M 01 43 OD	
5. ^A D ^M 01 44 OD	
6. ^A E ^M 01 45 OD	
7. ^A F ^M 01 46 OD	
8. ^A G ^M 01 47 OD	
9. ^A H ^M 01 48 OD	
10. ^A I ^M 01 49 OD	
11. ^A J ^M 01 4A OD	
12.	
13.	
14.	
15.	
16.	

1. Manufacturer:	Televideo
2. Terminal:	970
SCREEN LAYOUT	VIDEO ATTRIBUTES
3. Number of rows: 24	ON OFF
4. Number of columns: 80	24. Blinking:
5. Top Row: 1	ESC [5 m ESC [m
6. Left Column: 1	1B 5B 35 6D 1B 5B 6D
7. Printing in bottom right cause scroll? PROG	25. Reverse video:
	ESC [7 m ESC [m
	1B 5B 37 6D 1B 5B 6D
CURSOR ADDRESSING	26. Underline:
8. Lead-in sequence:	ESC [4 m ESC [m
ESC [1B 5B	1B 5B 34 6D 1B 5B 6D
9. Row or column first: ROW	27. High intensity:
10. Numeric form of row and column: VARIABLE-LENGTH ASCII	ESC [1 m ESC [m
11. Add offset to: Row: 0	1B 5B 31 6D 1B 5B 6D
Col: 0	28. Half intensity:
12. Separator sequence:	ESC [0 m ESC [m
; 3B	1B 5B 30 6D 1B 5B 6D
13. End sequence:	29. Attributes occupy position: NO
H 48	30. Attributes cumulative: YES
14. Cursor to top row, left column:	31. All attributes off:
ESC [1 ; 1 H	ESC [m
1B 5B 31 3B 31 48	1B 5B 6D
15. 10th Row, 50th Column:	CURSOR CONTROL KEYS
ESC [1 0 ; 5 0 H	32. Cursor up:
1B 5B 31 30 3B 35 30 48	ESC [A
16. Delay after positioning: 0	1B 5B 41
17. Cursor home:	33. Cursor down:
ESC [H	ESC [B
1B 5B 48	1B 5B 42
ERASURE	34. Cursor right:
18. Entire screen:	ESC [C
ESC [2 J	1B 5B 43
1B 5B 32 4A	35. Cursor left:
19. Cursor to end of screen:	ESC [D
ESC [J	1B 5B 44
1B 5B 4A	CHARACTER SET
20. Beginning of screen to cursor:	36. Full upper and lower ASCII: YES
ESC [1 J	37. Generate all control codes: YES
1B 5B 31 4A	38. Bell or tone sequence:
21. Cursor to end of line:	^G 07
ESC [K	EMULATION
1B 5B 4B	39. Conform to ANSI X3.64? YES
22. Beginning of line to cursor:	40. Terminals Emulated:
ESC [1 K	970 ANSI
1B 5B 31 4B	DEC VT100
23. Entire cursor line:	DEC VT52
ESC [2 K	
1B 5B 32 4B	

Manufacturer:
Terminal:

Televideo
970

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

36. Includes soft font.

1. ESC ? a
1B 3F 61
2. ESC ? b
1B 3F 62
3. ESC ? c
1B 3F 63
4. ESC ? d
1B 3F 64
5. ESC ? e
1B 3F 65
6. ESC ? f
1B 3F 66
7. ESC ? g
1B 3F 67
8. ESC ? h
1B 3F 68
9. ESC ? i
1B 3F 69
10. ESC ? j
1B 3F 6A
11. ESC ? k
1B 3F 6B
12. ESC ? l
1B 3F 6C
13. ESC ? m
1B 3F 6D
14. ESC ? n
1B 3F 6E
15. ESC ? o
1B 3F 6F
16. ESC ? p
1B 3F 70

1. Manufacturer:		Televideo
2. Terminal:		Personal Terminal

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1		
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		27. High intensity:	
ESC =			
1B 3D			
9. Row or column first:	ROW	28. Half intensity:	
10. Numeric form of row and column:		ESC (	ESC)
BINARY		1B 28	1B 29
11. Add offset to:	Row: 1F Col: 1F	29. Attributes occupy position:	YES
12. Separator sequence:		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		0B	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^J	
16. Delay after positioning:	0	0A	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		0C	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^Z	0	08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC Y	0	37. Generate all control codes:	YES
1B 59		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC T	0	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			
^M ESC T	0		
OD 1B 54			

Manufacturer:
Terminal:

Televideo
Personal Terminal

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

4. Or 40.

42. Function keys default to null.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:		Termiflex	
2. Terminal:		HT/1000	
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	4	ON	OFF
4. Number of columns:	16	24. Blinking:	
5. Top Row:	1	^Z	^X
6. Left Column:	1	1A	18
7. Printing in bottom right cause scroll?	NO	25. Reverse video:	
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		27. High intensity:	
ESC Y		28. Half intensity:	
1B 59		29. Attributes occupy position:	NO
9. Row or column first:	ROW	30. Attributes cumulative:	NO
10. Numeric form of row and column:		31. All attributes off:	
BINARY			
11. Add offset to:	Row: 1F		
	Col: 1F		
12. Separator sequence:			
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC Y SP SP		32. Cursor up:	
1B 59 20 20		ESC A	
15. 10th Row, 50th Column:		1B 41	
		33. Cursor down:	
		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
		35. Cursor left:	
ERASURE	DELAY	ESC D	
18. Entire screen:		1B 44	
		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J	0	37. Generate all control codes:	YES
1B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Termiflex
HT/1000

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. 17. Home is lower left.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Texas Instruments		
2. Terminal:	931		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1		
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		27. High intensity:	
ESC Y			
1B 59		28. Half intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		29. Attributes occupy position:	NO
BINARY		30. Attributes cumulative:	NO
11. Add offset to:	Row: 1F Col: 1F	31. All attributes off:	
12. Separator sequence:			
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC Y SP SP		32. Cursor up:	
1B 59 20 20		ESC [A	
15. 10th Row, 50th Column:		1B 5B 41	
ESC Y) Q		33. Cursor down:	
1B 59 29 51		ESC [B	
16. Delay after positioning:	0	1B 5B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC [C	
1B 48		1B 5B 43	
ERASURE		35. Cursor left:	
18. Entire screen:	DELAY	ESC [D	
ESC L	0	1B 5B 44	
1B 4C		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J	0	37. Generate all control codes:	YES
1B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC I	0	39. Conform to ANSI X3.64?	NO
1B 49		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Texas Instruments
931

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-----|---|
| 1. | 3. Also 25th status line. |
| | 24.-31. Refer to manual. |
| 2. | 36. 96 ASCII characters and 32
line drawing characters. Nine
international keyboards and
character sets are available. |
| 3. | 42. 12 programmable function keys. |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |

1. Manufacturer:	Texas Instruments
2. Terminal:	Professional Computer

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? NO

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column: VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0
12. Separator sequence:
;
3B
13. End sequence:
f
66
14. Cursor to top row, left column:
ESC [1 ; 1 f
1B 5B 31 3B 31 66
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 f
1B 5B 31 30 3B 35 30 66
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE

DELAY

18. Entire screen:
ESC [2 J
1B 5B 32 4A
19. Cursor to end of screen:
ESC [J
1B 5B 4A
20. Beginning of screen to cursor:
21. Cursor to end of line:
ESC [K
1B 5B 4B
22. Beginning of line to cursor:
23. Entire cursor line:
^M ESC [K
OD 1B 5B 4B

VIDEO ATTRIBUTES

ON OFF
24. Blinking:
ESC [5 m ESC [m
1B 5B 35 6D 1B 5B 6D
25. Reverse video:
ESC [7 m ESC [m
1B 5B 37 6D 1B 5B 6D
26. Underline:
ESC [4 m ESC [m
1B 5B 34 6D 1B 5B 6D
27. High intensity:
ESC [1 m ESC [m
1B 5B 31 6D 1B 5B 6D
28. Half intensity:

29. Attributes occupy position: YES
30. Attributes cumulative: YES
31. All attributes off:
ESC [m
1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:
IBM 3101
IBM 3270
TI 931

Manufacturer:
Terminal:

Texas Instruments
Professional Computer

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

NOTES

28. Half intensity on:
ESC [3 2 m
30. Combinations of attributes are set
by placing the specifications in
the ESC [Pn ; Pn ; Pn ; Pn m
sequence. They may be turned off
individually by sending a "set
sequence" without the attribute in
question.
40. This is a PC, not a terminal. TI
currently supports TTY, 3101, 3270
and TI 931 emulation. Application
packages could be written to
emulate any terminal.
42. 24 function keys are totally
mappable to any sequence using the
key-reassignment command.

1. Manufacturer:	Tymshare
2. Terminal:	Scanset 410, 415/HS, XL-HS

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right
 cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC Y
 1B 59
 9. Row or column first: ROW
 10. Numeric form of row and column:
 BINARY
 11. Add offset to: Row: 1F
 Col: 1F
 12. Separator sequence:

13. End sequence:

14. Cursor to top row, left column:
 ESC Y SP SP
 1B 59 20 20
 15. 10th Row, 50th Column:
 ESC Y) Q
 1B 59 29 51
 16. Delay after positioning: 0
 17. Cursor home:
 ESC H
 1B 48

ERASURE

DELAY

18. Entire screen:
 ESC >
 1B 3E
 19. Cursor to end of screen:
 ESC J
 1B 4A
 20. Beginning of screen to cursor:

21. Cursor to end of line:
 ESC K
 1B 4B
 22. Beginning of line to cursor:

23. Entire cursor line:

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 25. Reverse video:
 26. Underline:
 27. High intensity:
 28. Half intensity:
 29. Attributes occupy position: NO
 30. Attributes cumulative: NO
 31. All attributes off:

CURSOR CONTROL KEYS

32. Cursor up:
 ESC A
 1B 41
 33. Cursor down:
 ESC B
 1B 42
 34. Cursor right:
 ESC C
 1B 43
 35. Cursor left:
 ESC D
 1B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? NO
 40. Terminals Emulated:
 VT52

Manufacturer:

Tymshare

Terminal:

Scanset 410, 415/HS, XL-HS

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1.

4. Or 40.

42. 12 programmable function keys.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Vector Graphic, Inc.		
2. Terminal:	Vector 4 & 4S & VSX		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1		
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC [7 m	ESC [m
		1B 5B 37 6D	1B 5B 6D
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:			
	ESC [		
	1B 5B		
9. Row or column first:	ROW	27. High intensity:	
10. Numeric form of row and column:			
	VARIABLE-LENGTH ASCII	28. Half intensity:	
11. Add offset to:	Row: 0		
	Col: 0		
12. Separator sequence:		29. Attributes occupy position:	NO
	;	30. Attributes cumulative:	NO
	3B	31. All attributes off:	
13. End sequence:		ESC [m	
	H	1B 5B 6D	
	48		
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC [1 ; 1 H		32. Cursor up:	
1B 5B 31 3B 31 48			8A
15. 10th Row, 50th Column:		33. Cursor down:	
ESC [1 0 ; 5 0 H			8B
1B 5B 31 30 3B 35 30 48		34. Cursor right:	
16. Delay after positioning:	0		8D
17. Cursor home:		35. Cursor left:	
	ESC [1 ; 1 H		8C
	1B 5B 31 3B 31 48		
ERASURE		CHARACTER SET	
18. Entire screen:		36. Full upper and lower ASCII:	YES
	ESC [2 J	37. Generate all control codes:	YES
	1B 5B 32 4A	38. Bell or tone sequence:	
19. Cursor to end of screen:		^G	
	ESC [J	07	
	1B 5B 4A		
20. Beginning of screen to cursor:		EMULATION	
	ESC [1 J	39. Conform to ANSI X3.64?	YES
	1B 5B 31 4A	40. Terminals Emulated:	
21. Cursor to end of line:			
	ESC [K		
	1B 5B 4B		
22. Beginning of line to cursor:			
	ESC [1 K		
	1B 5B 31 4B		
23. Entire cursor line:			
	ESC [2 K		
	1B 5B 32 4B		

Manufacturer:
Terminal:

Vector Graphic, Inc.
Vector 4 & 4S & VSX

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | | |
|-----|----|---|
| 1. | C1 | 32.-35. Shift arrow keys 9A-9D.
Ctrl arrow keys AA-AD.
Shift-ctrl arrow keys BA-BD. |
| 2. | C2 | 42. Help key C0
Shift D0
Ctrl E0
Shift-ctrl F0 |
| 3. | C3 | F1-F14 shift D1-DE
F1-F14 ctrl E1-EE
F1-F14 shift-ctrl F1-FE |
| 4. | C4 | |
| 5. | C5 | |
| 6. | C6 | |
| 7. | C7 | |
| 8. | C8 | |
| 9. | C9 | |
| 10. | CA | |
| 11. | CB | |
| 12. | CC | |
| 13. | CD | |
| 14. | CE | |
| 15. | | |
| 16. | | |

1. Manufacturer:	Visual Technology
2. Terminal:	V102

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column: VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0

12. Separator sequence:

; 3B

13. End sequence:

H 48

14. Cursor to top row, left column:

ESC [1 ; 1 H
 1B 5B 31 3B 31 48

15. 10th Row, 50th Column:

ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48

16. Delay after positioning: 0

17. Cursor home:

ESC [H
 1B 5B 48

ERASURE

DELAY

18. Entire screen:

ESC [2 J 0
 1B 5B 32 4A

19. Cursor to end of screen:

ESC [J 0
 1B 5B 4A

20. Beginning of screen to cursor:

ESC [1 J 0
 1B 5B 31 4A

21. Cursor to end of line:

ESC [K 0
 1B 5B 4B

22. Beginning of line to cursor:

ESC [1 K 0
 1B 5B 31 4B

23. Entire cursor line:

ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D
 25. Reverse video:
 ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D
 26. Underline:
 ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D
 27. High intensity:
 ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D
 28. Half intensity:

29. Attributes occupy position: NO

30. Attributes cumulative: YES

31. All attributes off:
 ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:
 DEC VT52, VT100, VT102

Manufacturer:
Terminal:

Visual Technology
V102

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC A ESC \
 1B 5F 41 1B 5C
2. ESC B ESC \
 1B 5F 42 1B 5C
3. ESC C ESC \
 1B 5F 43 1B 5C
4. ESC D ESC \
 1B 5F 44 1B 5C
5. ESC E ESC \
 1B 5F 45 1B 5C
6. ESC F ESC \
 1B 5F 46 1B 5C
7. ESC G ESC \
 1B 5F 47 1B 5C
8. ESC H ESC \
 1B 5F 48 1B 5C
9. ESC I ESC \
 1B 5F 49 1B 5C
10. ESC J ESC \
 1B 5F 4A 1B 5C
11. ESC K ESC \
 1B 5F 4B 1B 5C
12. ESC L ESC \
 1B 5F 4C 1B 5C
13. ESC M ESC \
 1B 5F 4D 1B 5C
14. ESC N ESC \
 1B 5F 4E 1B 5C
15. ESC O ESC \
 1B 5F 4F 1B 5C
16. ESC P ESC \
 1B 5F 50 1B 5C

NOTES

4. Or 132.
42. Default values are shown for
 PF keys. PF keys are programmable.

1. Manufacturer:		Visual Technology	
2. Terminal:		V330 (DG D200 mode)	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	^N	^O
6. Left Column:	1	OE	OF
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		^^ D	^^ E
		1E 44	1E 45
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		^T	^U
^p		14	15
10		27. High intensity:	
9. Row or column first:	COL		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		^\ 1C	^] 1D
11. Add offset to:	Row: 0 Col: 0	29. Attributes occupy position:	NO
12. Separator sequence:		30. Attributes cumulative:	YES
		31. All attributes off:	
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
^P NUL NUL		32. Cursor up:	
10 00 00		^W	
15. 10th Row, 50th Column:		17	
^P 1 ^I		33. Cursor down:	
10 31 09		^Z	
16. Delay after positioning:		1A	
17. Cursor home:		34. Cursor right:	
^H		^X	
08		18	
		35. Cursor left:	
		^Y	
		19	
ERASURE		CHARACTER SET	
18. Entire screen:		36. Full upper and lower ASCII: YES	
^L		37. Generate all control codes: YES	
0C		38. Bell or tone sequence:	
19. Cursor to end of screen:		^G	
^^ J		07	
1E 4A			
20. Beginning of screen to cursor:		EMULATION	
		39. Conform to ANSI X3.64? NO	
21. Cursor to end of line:		40. Terminals Emulated:	
^K		VT52, ADM3A, HZ 1500, DG D200	
0B		DG D200 codes shown here.	
22. Beginning of line to cursor:			
23. Entire cursor line:			
^^ t			
1E 74			

Manufacturer:
Terminal:

Visual Technology
V330 (DG D200 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. Default values are shown for
PF keys. PF keys are programmable.

1. ^^ q
1E 71

2. ^^ r
1E 72

3. ^^ s
1E 73

4. ^^ t
1E 74

5. ^^ u
1E 75

6. ^^ v
1E 76

7. ^^ w
1E 77

8. ^^ x
1E 78

9. ^^ y
1E 79

10. ^^ z
1E 7A

11. ^^ {
1E 7B

12. ^^ |
1E 7C

13.

14.

15.

16.

1. Manufacturer:	Visual Technology
2. Terminal:	V500 (LSI ADM3A mode)

SCREEN LAYOUT

3. Number of rows: 33
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
ESC =
1B 3D
9. Row or column first: ROW
10. Numeric form of row and column: BINARY
11. Add offset to: Row: 1F Col: 1F
12. Separator sequence:
13. End sequence:

14. Cursor to top row, left column:
ESC = SP SP
1B 3D 20 20
15. 10th Row, 50th Column:
ESC 0) Q
1B 30 29 51
16. Delay after positioning: 0
17. Cursor home:
ESC H
1B 48

ERASURE

18. Entire screen: DELAY
ESC w 0
1B 77
19. Cursor to end of screen: 0
ESC J 0
1B 4A
20. Beginning of screen to cursor:

21. Cursor to end of line: 0
ESC K 0
1B 4B
22. Beginning of line to cursor:
23. Entire cursor line: 0
ESC t 0
1B 74

VIDEO ATTRIBUTES

ON OFF
24. Blinking: ESC ^B ESC ^A
1B 02 1B 01
25. Reverse video: ESC ^H ESC ^G
1B 08 1B 07
26. Underline: ESC ^D ESC ^C
1B 04 1B 03
27. High intensity:
28. Half intensity: ESC 4 ESC 3
1B 34 1B 33
29. Attributes occupy position: NO
30. Attributes cumulative: YES
31. All attributes off:

CURSOR CONTROL KEYS

32. Cursor up: ESC A
1B 41
33. Cursor down: ESC B
1B 42
34. Cursor right: ESC C
1B 43
35. Cursor left: ESC D
1B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence: ^G
07

EMULATION

39. Conform to ANSI X3.64? NO
40. Terminals Emulated:
VT52, LSI ADM3A, Haz 1500,
DG D200, Tektronix 4010-4014
graphics emulation.
LSI ADM3A codes shown here.

Manufacturer:

Visual Technology

Terminal:

V500 (LSI ADM3A mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. ESC A
1B 41

3. Or 24.

42. Default values are shown for
PF keys. PF keys are programmable.

2. ESC B
1B 42

3. ESC C
1B 43

4. ESC D
1B 44

5. ESC E
1B 45

6. ESC F
1B 46

7. ESC G
1B 47

8. ESC H
1B 48

9. ESC I
1B 49

10. ESC J
1B 4A

11. ESC K
1B 4B

12. ESC L
1B 4C

13.

14.

15.

16.

1. Manufacturer:	Visual Technology
2. Terminal:	Visual 100

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column: VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0
12. Separator sequence:
;
3B
13. End sequence:
H
48

14. Cursor to top row, left column:
ESC [1 ; 1 H
1B 5B 31 3B 31 48
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 H
1B 5B 31 30 3B 35 30 48
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE

DELAY

18. Entire screen:
ESC [2 J 0
1B 5B 32 31 4A
19. Cursor to end of screen:
ESC [J 0
1B 5B 4A
20. Beginning of screen to cursor:
ESC [1 J 0
1B 5B 31 4A
21. Cursor to end of line:
ESC [K 0
1B 5B 4B
22. Beginning of line to cursor:
ESC [1 K 0
1B 5B 31 4B
23. Entire cursor line:
ESC [2 K 0
1B 5B 32 4B

VIDEO ATTRIBUTES

ON

OFF

24. Blinking:
ESC [5 m ESC [m
1B 5B 35 6D 1B 5B 6D
25. Reverse video:
ESC [7 m ESC [m
1B 5B 37 6D 1B 5B 6D
26. Underline:
ESC [4 m ESC [m
1B 5B 34 6D 1B 5B 6D
27. High intensity:
ESC [1 m ESC [m
1B 5B 31 6D 1B 5B 6D
28. Half intensity:

29. Attributes occupy position: NO
30. Attributes cumulative: YES
31. All attributes off:
ESC [m
1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:
DEC VT100, VT52

Manufacturer:
Terminal:

Visual Technology
Visual 100

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ESC O P
1B 4F 50

2. ESC O Q
1B 4F 51

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

NOTES

4. Or 132 (in ANSI mode only).

7. Selectable.

13. Optionally f (66H).

1. Manufacturer:		Visual Technology	
2. Terminal:		Visual 100 (VT52 mode)	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1		
6. Left Column:	1	25. Reverse video:	
7. Printing in bottom right cause scroll?	PROG		
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		27. High intensity:	
ESC Y			
1B 59		28. Half intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		29. Attributes occupy position:	NO
BINARY		30. Attributes cumulative:	NO
11. Add offset to:	Row: 1F Col: 1F	31. All attributes off:	
12. Separator sequence:			
13. End sequence:			
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC Y SP SP		32. Cursor up:	
1B 59 20 20		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC Y) Q		33. Cursor down:	
1B 59 29 51		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		ESC D	
ESC H ESC J	0	1B 44	
1B 48 1B 4A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC J	0	37. Generate all control codes:	YES
1B 4A		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC K	0	39. Conform to ANSI X3.64?	NO
1B 4B		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Visual Technology
Visual 100 (VT52 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

Product discontinued.

1. ESC O P
1B 4F 50

2. ESC O Q
1B 4F 51

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Visual Technology
2. Terminal:	Visual 300 (VT100 mode)

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0

12. Separator sequence:

; 3B

13. End sequence:
 H 48

14. Cursor to top row, left column:

ESC [1 ; 1 H
 1B 5B 31 3B 31 48

15. 10th Row, 50th Column:

ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48

16. Delay after positioning: 0

17. Cursor home:

ESC [H
 1B 5B 48

ERASURE

DELAY

18. Entire screen:

ESC [2 J 0
 1B 5B 32 4A

19. Cursor to end of screen:

ESC [J 0
 1B 5B 4A

20. Beginning of screen to cursor:

ESC [1 J 0
 1B 5B 31 4A

21. Cursor to end of line:

ESC [K 0
 1B 5B 4B

22. Beginning of line to cursor:

ESC [1 K 0
 1B 5B 31 4B

23. Entire cursor line:

ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF

24. Blinking:

ESC [5 m ESC [m
 1B 5B 35 6D 1B 5B 6D

25. Reverse video:

ESC [7 m ESC [m
 1B 5B 37 6D 1B 5B 6D

26. Underline:

ESC [4 m ESC [m
 1B 5B 34 6D 1B 5B 6D

27. High intensity:

ESC [1 m ESC [m
 1B 5B 31 6D 1B 5B 6D

28. Half intensity:

29. Attributes occupy position: NO

30. Attributes cumulative: YES

31. All attributes off:

ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:

ESC [A
 1B 5B 41

33. Cursor down:

ESC [B
 1B 5B 42

34. Cursor right:

ESC [C
 1B 5B 43

35. Cursor left:

ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES

37. Generate all control codes: YES

38. Bell or tone sequence:

^G
 07

EMULATION

39. Conform to ANSI X3.64? YES

40. Terminals Emulated:

DEC VT100, VT52

Manufacturer:

Visual Technology

Terminal:

Visual 300 (VT100 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O P
 1B 4F 50

2. ESC O Q
 1B 4F 51

3. ESC O R
 1B 4F 52

4. ESC O S
 1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Visual Technology
2. Terminal:	Visual 50/55 (Esprit mode)

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? YES

CURSOR ADDRESSING

8. Lead-in sequence:
 ~ ^Q
 7E 11
 9. Row or column first: COL
 10. Numeric form of row and column: BINARY
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 13. End sequence:

14. Cursor to top row, left column:
 ~ ^Q NUL NUL
 7E 11 00 00
 15. 10th Row, 50th Column:
 ~ ^Q 1 ^I
 7E 11 31 09
 16. Delay after positioning: 0
 17. Cursor home:
 ~ ^R
 7E 12

ERASURE

18. Entire screen: DELAY
 ~ R 0
 7E 52
 19. Cursor to end of screen: 0
 ~ J
 7E 4A
 20. Beginning of screen to cursor:
 21. Cursor to end of line: 0
 ~ K
 7E 4B
 22. Beginning of line to cursor:
 23. Entire cursor line: 0
 ~ E
 7E 45

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 ~ i ~ W
 7E 69 7E 57
 25. Reverse video:
 ~ j ~ W
 7E 6A 7E 57
 26. Underline:
 ~ S s W
 7E 53 73 57
 27. High intensity:
 28. Half intensity:
 ~ O ~ W
 7E 4F 7E 57
 29. Attributes occupy position: NO
 30. Attributes cumulative: NO
 31. All attributes off:
 ~ W
 7E 57

CURSOR CONTROL KEYS

32. Cursor up:
 ~ ^L
 7E 0C
 33. Cursor down:
 ~ ^K
 7E 0B
 34. Cursor right:
 ~ C
 7E 43
 35. Cursor left:
 ~ D
 7E 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: YES
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? NO
 40. Terminals Emulated:
 DEC VT52, ADDS Viewpoint, Lear Siegler ADM3A, Hazeltine Esprit V55 also Hazeltine 1500-1510, Visual 200/210.

Manufacturer:
Terminal:

Visual Technology
Visual 50/55 (Esprit mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. Default values are shown for
PF keys. PF keys are programmable.

1. ~ P
7E 50

2. ~ Q
7E 51

3. ~ R
7E 52

4. ~ SP
7E 20

5. ~ !
7E 21

6. ~ "
7E 22

7. ~ #
7E 23

8. ~ \$
7E 24

9. ~ %
7E 25

10. ~ &
7E 26

11. ~ ^
7E 27

12. ~ (
7E 28

13.

14.

15.

16.

1. Manufacturer:	Visual Technology		
2. Terminal:	Visual 50/55 (VT52 mode)		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC i	ESC W
6. Left Column:	1	1B 69	1B 57
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC j	ESC W
		1B 6A	1B 57
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC S	ESC W
	ESC Y	1B 53	1B 57
	1B 59	27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
	BINARY	ESC O	ESC W
11. Add offset to:	Row: 1F	1B 4F	1B 57
	Col: 1F		
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
		31. All attributes off:	
13. End sequence:		ESC W	
		1B 57	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC Y SP SP		32. Cursor up:	
1B 59 20 20		ESC A	
15. 10th Row, 50th Column:		1B 41	
ESC Y) Q		33. Cursor down:	
1B 59 29 51		ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
ESC H		ESC C	
1B 48		1B 43	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		ESC D	
ESC ^Z	0	1B 44	
1B 1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC ^	0	37. Generate all control codes:	YES
1B 1F		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC ^]	0	39. Conform to ANSI X3.64?	NO
1B 1D		40. Terminals Emulated:	
22. Beginning of line to cursor:		DEC VT52, ADDS Viewpoint, Lear Siegler ADM3A, Hazeltine Esprit V55 also Hazeltine 1510, Visual 200-210.	
23. Entire cursor line:			
ESC E	0		
1B 45			

Manufacturer:
Terminal:

Visual Technology
Visual 50/55 (VT52 mode)

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

42. Default values are shown for
PF keys. PF keys are programmable.

1. ESC P
1B 50

2. ESC Q
1B 51

3. ESC R
1B 52

4. ESC SP
1B 20

5. ESC !
1B 21

6. ESC "
1B 22

7. ESC #
1B 23

8. ESC \$
1B 24

9. ESC %
1B 25

10. ESC &
1B 26

11. ESC ^
1B 27

12. ESC (
1B 28

13.

14.

15.

16.

1. Manufacturer:	Wyse Technology		
2. Terminal:	WY-100		
SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 8	ESC G 0
ESC =		1B 47 38	1B 47 30
1B 3D		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC G p	ESC G 0
11. Add offset to:	Row: 1F	1B 47 70	1B 47 30
	Col: 1F		
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^J	
16. Delay after positioning:	0	OA	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^Z	0	08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC Y	0	37. Generate all control codes:	YES
1B 59		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC T	0	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Wyse Technology
WY-100

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

1. ^A @ ^M
01 40 OD

2. ^A A ^M
01 41 OD

3. ^A B ^M
01 42 OD

4. ^A C ^M
01 43 OD

5. ^A D ^M
01 44 OD

6. ^A E ^M
01 45 OD

7. ^A F ^M
01 46 OD

8. ^A G ^M
01 47 OD

9. ^A H ^M
01 48 OD

10. ^A I ^M
01 49 OD

11. ^A J ^M
01 4A OD

12. ^A K ^M
01 4B OD

13. ^A L ^M
01 4C OD

14. ^A M ^M
01 4D OD

15. ^A N ^M
01 4E OD

16. ^A O ^M
01 4F OD

NOTES

30. Multiple attributes available,
refer to manual.

36. Plus graphics characters.

42. F1-F8 shown unshifted.

F9-F16 refer to F1-F8 shifted.

1. Manufacturer:		Wyse Technology	
2. Terminal:		WY-300	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 8	ESC G 0
ESC =		1B 47 38	1B 47 30
1B 3D		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC G p	ESC G 0
11. Add offset to:	Row: 1F	1B 47 70	1B 47 30
	Col: 1F		
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^J	
16. Delay after positioning:	0	OA	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^Z	0	08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
ESC Y	0	37. Generate all control codes:	YES
1B 59		38. Bell or tone sequence:	
20. Beginning of screen to cursor:		^G	
		07	
21. Cursor to end of line:		EMULATION	
ESC T	0	39. Conform to ANSI X3.64?	NO
1B 54		40. Terminals Emulated:	
22. Beginning of line to cursor:			
23. Entire cursor line:			

Manufacturer:
Terminal:

Wyse Technology
WY-300

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

- 1. ^A @ ^M
01 40 OD
- 2. ^A A ^M
01 41 OD
- 3. ^A B ^M
01 42 OD
- 4. ^A C ^M
01 43 OD
- 5. ^A D ^M
01 44 OD
- 6. ^A E ^M
01 45 OD
- 7. ^A F ^M
01 46 OD
- 8. ^A G ^M
01 47 OD
- 9. ^A H ^M
01 48 OD
- 10. ^A I ^M
01 49 OD
- 11. ^A J ^M
01 4A OD
- 12. ^A K ^M
01 4B OD
- 13. ^A L ^M
01 4C OD
- 14. ^A M ^M
01 4D OD
- 15. ^A N ^M
01 4E OD
- 16. ^A O ^M
01 4F OD

NOTES

- 30. Multiple attributes available, refer to manual. Color attributes available.
- 36. Plus graphics characters. Terminal has soft character generator into which up to 256 custom symbols may be loaded from host.
- 42. F1-F8 shown unshifted.
F9-F16 refer to F1-F8 shifted.

1. Manufacturer:		Wyse Technology	1
2. Terminal:		WY-50	

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC G 2	ESC G 0
6. Left Column:	1	1B 47 32	1B 47 30
7. Printing in bottom right cause scroll?	PROG	25. Reverse video:	
		ESC G 4	ESC G 0
		1B 47 34	1B 47 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:		ESC G 8	ESC G 0
ESC =		1B 47 38	1B 47 30
1B 3D		27. High intensity:	
9. Row or column first:	ROW		
10. Numeric form of row and column:		28. Half intensity:	
BINARY		ESC G p	ESC G 0
11. Add offset to:	Row: 1F Col: 1F	1B 47 70	1B 47 30
12. Separator sequence:		29. Attributes occupy position:	YES
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC G 0	
		1B 47 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
ESC = SP SP		32. Cursor up:	
1B 3D 20 20		^K	
15. 10th Row, 50th Column:		OB	
ESC =) Q		33. Cursor down:	
1B 3D 29 51		^J	
16. Delay after positioning:	0	OA	
17. Cursor home:		34. Cursor right:	
^^		^L	
1E		OC	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		^H	
^Z	0	08	
1A		CHARACTER SET	
19. Cursor to end of screen:		36. Full upper and lower ASCII:	YES
		37. Generate all control codes:	YES
20. Beginning of screen to cursor:		38. Bell or tone sequence:	
		^G	
		07	
21. Cursor to end of line:		EMULATION	
		39. Conform to ANSI X3.64?	NO
22. Beginning of line to cursor:		40. Terminals Emulated:	
		Teletype 910/920/925	
		Hazeltine 1500	
23. Entire cursor line:		ADDS Viewpoint	

Manufacturer:
Terminal:

Wyse Technology
WY-50

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

- | | |
|-------------------------|---|
| 1. ^A @ ^M
01 40 OD | 4. Or 132.
8. In 132 column mode:
ESC a |
| 2. ^A A ^M
01 41 OD | 10. In 132 column mode:
VARIABLE-LENGTH ASCII |
| 3. ^A B ^M
01 42 OD | 11. In 132 column mode:
no offset |
| 4. ^A C ^M
01 43 OD | 12. In 132 column mode:
R |
| 5. ^A D ^M
01 44 OD | 13. In 132 column mode:
C |
| 6. ^A E ^M
01 45 OD | 14. In 132 column mode:
ESC a 1 R 1 C |
| 7. ^A F ^M
01 46 OD | 15. In 132 column mode:
ESC a 10 R 50 C |
| 8. ^A G ^M
01 47 OD | 30. Multiple attributes available,
refer to manual. |
| 9. ^A H ^M
01 48 OD | 36. Plus graphics characters. |
| 10. ^A I ^M
01 49 OD | 42. Also shifted F1-F16. All function
keys user programmable. Default
values shown. |
| 11. ^A J ^M
01 4A OD | |
| 12. ^A K ^M
01 4B OD | |
| 13. ^A L ^M
01 4C OD | |
| 14. ^A M ^M
01 4D OD | |
| 15. ^A N ^M
01 4E OD | |
| 16. ^A O ^M
01 4F OD | |

1. Manufacturer:	Wyse Technology
2. Terminal:	WY-75

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column:
 VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48

14. Cursor to top row, left column:

ESC [1 ; 1 H
 1B 5B 31 3B 31 48
 15. 10th Row, 50th Column:
 ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48

16. Delay after positioning: 0

17. Cursor home:
 ESC [H
 1B 5B 48

ERASURE

DELAY

18. Entire screen:
 ESC [2 J
 1B 5B 32 4A 0

19. Cursor to end of screen:
 ESC [J
 1B 5B 4A 0

20. Beginning of screen to cursor:
 ESC [1 J
 1B 5B 31 4A 0

21. Cursor to end of line:
 ESC [K
 1B 5B 4B 0

22. Beginning of line to cursor:
 ESC [1 K
 1B 5B 31 4B 0

23. Entire cursor line:
 ESC [2 K
 1B 5B 32 4B 0

VIDEO ATTRIBUTES

ON OFF

24. Blinking:
 ESC [5 m
 1B 5B 35 6D
 ESC [m
 1B 5B 6D

25. Reverse video:
 ESC [7 m
 1B 5B 37 6D
 ESC [m
 1B 5B 6D

26. Underline:
 ESC [4 m
 1B 5B 34 6D
 ESC [m
 1B 5B 6D

27. High intensity:
 ESC [1 m
 1B 5B 31 6D
 ESC [m
 1B 5B 6D

28. Half intensity:

29. Attributes occupy position: NO

30. Attributes cumulative: YES

31. All attributes off:

ESC [m
 1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41

33. Cursor down:
 ESC [B
 1B 5B 42

34. Cursor right:
 ESC [C
 1B 5B 43

35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES

37. Generate all control codes: YES

38. Bell or tone sequence:

^G
 07

EMULATION

39. Conform to ANSI X3.64? YES

40. Terminals Emulated:

Manufacturer:
Terminal:

Wyse Technology
WY-75

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

4. Or 132.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Zenith Data Systems
2. Terminal:	ZT-10

SCREEN LAYOUT		VIDEO ATTRIBUTES	
3. Number of rows:	24	ON	OFF
4. Number of columns:	80	24. Blinking:	
5. Top Row:	1	ESC s 2	ESC s 0
6. Left Column:	1	1B 73 32	1B 73 30
7. Printing in bottom right cause scroll?	YES	25. Reverse video:	
		ESC s 1	ESC s 0
		1B 73 31	1B 73 30
CURSOR ADDRESSING		26. Underline:	
8. Lead-in sequence:			
	ESC Y		
	1B 59		
9. Row or column first:	ROW	27. High intensity:	
10. Numeric form of row and column:	BINARY		
11. Add offset to:	Row: 1F	28. Half intensity:	
	Col: 1F	ESC s 4	ESC s 0
		1B 73 34	1B 73 30
12. Separator sequence:		29. Attributes occupy position:	NO
		30. Attributes cumulative:	NO
13. End sequence:		31. All attributes off:	
		ESC s 0	
		1B 73 30	
14. Cursor to top row, left column:		CURSOR CONTROL KEYS	
	ESC Y SP SP	32. Cursor up:	
	1B 59 20 20	ESC A	
15. 10th Row, 50th Column:		1B 41	
	ESC Y) Q	33. Cursor down:	
	1B 59 29 51	ESC B	
16. Delay after positioning:	0	1B 42	
17. Cursor home:		34. Cursor right:	
	ESC H	ESC C	
	1B 48	1B 43	
ERASURE	DELAY	35. Cursor left:	
18. Entire screen:		ESC D	
	ESC E	1B 44	
	1B 45		
19. Cursor to end of screen:		CHARACTER SET	
	ESC J	36. Full upper and lower ASCII:	YES
	1B 4A	37. Generate all control codes:	YES
20. Beginning of screen to cursor:		38. Bell or tone sequence:	
	ESC b	^G	
	1B 62	07	
21. Cursor to end of line:		EMULATION	
	ESC K	39. Conform to ANSI X3.64?	NO
	1B 4B	40. Terminals Emulated:	
22. Beginning of line to cursor:		DEC VT-52	
	ESC o		
	1B 6F		
23. Entire cursor line:			
	ESC I		
	1B 49		

Manufacturer:
Terminal:

Zenith Data Systems
ZT-10

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. ESC S
1B 53

30. Blinking & reverse video:

ESC s 3
1B 73 33

2. ESC T
1B 54

3. ESC U
1B 55

4. ESC V
1B 56

5. ESC W
1B 57

6. ESC P
1B 50

7. ESC Q
1B 51

8. ESC R
1B 52

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Zenith Data Systems
2. Terminal:	Z-19-HW

SCREEN LAYOUT

3. Number of rows: 24
 4. Number of columns: 80
 5. Top Row: 1
 6. Left Column: 1
 7. Printing in bottom right cause scroll? NO

CURSOR ADDRESSING

8. Lead-in sequence:
 ESC [1B 5B
 9. Row or column first: ROW
 10. Numeric form of row and column: VARIABLE-LENGTH ASCII
 11. Add offset to: Row: 0 Col: 0
 12. Separator sequence:
 ;
 3B
 13. End sequence:
 H
 48

14. Cursor to top row, left column:

ESC [1 ; 1 H
 1B 5B 31 3B 31 48

15. 10th Row, 50th Column:

ESC [1 0 ; 5 0 H
 1B 5B 31 30 3B 35 30 48

16. Delay after positioning: 0

17. Cursor home:

ESC [1 ; 1 H
 1B 5B 31 3B 31 48

ERASURE

DELAY

18. Entire screen:

ESC [2 J 0
 1B 5B 32 4A

19. Cursor to end of screen:

ESC [0 J 0
 1B 5B 30 4A

20. Beginning of screen to cursor:

ESC [1 J 0
 1B 5B 31 4A

21. Cursor to end of line:

ESC [0 K 0
 1B 5B 30 4B

22. Beginning of line to cursor:

ESC [1 K 0
 1B 5B 31 4B

23. Entire cursor line:

ESC [2 K 0
 1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF
 24. Blinking:
 25. Reverse video:
 ESC [7 m ESC [0 m
 1B 5B 37 6D 1B 5B 30 6D
 26. Underline:
 27. High intensity:
 28. Half intensity:
 29. Attributes occupy position: NO
 30. Attributes cumulative: NO
 31. All attributes off:

CURSOR CONTROL KEYS

32. Cursor up:
 ESC [A
 1B 5B 41
 33. Cursor down:
 ESC [B
 1B 5B 42
 34. Cursor right:
 ESC [C
 1B 5B 43
 35. Cursor left:
 ESC [D
 1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
 37. Generate all control codes: NO
 38. Bell or tone sequence:
 ^G
 07

EMULATION

39. Conform to ANSI X3.64? YES
 40. Terminals Emulated:
 VT-52

Manufacturer:
Terminal:

Zenith Data Systems
Z-19-HW

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O S
 1B 4F 53

2. ESC O T
 1B 4F 54

3. ESC O U
 1B 4F 55

4. ESC O V
 1B 4F 56

5. ESC O W
 1B 4F 57

6. ESC O P
 1B 4F 50

7. ESC O Q
 1B 4F 51

8. ESC O R
 1B 4F 52

9.

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Zenith Data Systems
2. Terminal:	Z-29

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column: VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0
12. Separator sequence:
;
3B
13. End sequence:
H
48
14. Cursor to top row, left column:
ESC [1 ; 1 H
1B 5B 31 3B 31 48
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 H
1B 5B 31 30 3B 35 30 48
16. Delay after positioning: 0
17. Cursor home:
ESC [1 ; 1 H
1B 5B 31 3B 31 48

ERASURE

DELAY

18. Entire screen:
ESC [2 J 0
1B 5B 32 4A
19. Cursor to end of screen:
ESC [0 J 0
1B 5B 30 4A
20. Beginning of screen to cursor:
ESC [1 J 0
1B 5B 31 4A
21. Cursor to end of line:
ESC [0 K 0
1B 5B 30 4B
22. Beginning of line to cursor:
ESC [1 K 0
1B 5B 31 4B
23. Entire cursor line:
ESC [2 K 0
1B 5B 32 4B

VIDEO ATTRIBUTES

ON

OFF

24. Blinking:
ESC [5 m ESC [0 m
1B 5B 35 6D 1B 5B 30 6D
25. Reverse video:
ESC [7 m ESC [0 m
1B 5B 37 6D 1B 5B 30 6D
26. Underline:
ESC [4 m ESC [0 m
1B 5B 34 6D 1B 5B 30 6D
27. High intensity:
28. Half intensity:
ESC [2 m ESC [0 m
1B 5B 32 6D 1B 5B 30 6D
29. Attributes occupy position: NO
30. Attributes cumulative: NO
31. All attributes off:
ESC [0 m
1B 5B 30 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:
Heath/Zenith H/Z-19
ANSI X3.64-1979 (VT100)
Lear Siegler ADM 3A
Hazeltime 1500

Manufacturer:
Terminal:

Zenith Data Systems
Z-29

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS NOTES

1. ESC O S
 1B 4F 53

2. ESC O T
 1B 4F 54

3. ESC O U
 1B 4F 55

4. ESC O V
 1B 4F 56

5. ESC O W
 1B 4F 57

6. ESC O P
 1B 4F 50

7. ESC O Q
 1B 4F 51

8. ESC O R
 1B 4F 52

9. ESC O X
 1B 4F 58

10.

11.

12.

13.

14.

15.

16.

1. Manufacturer:	Zenith Data Systems
2. Terminal:	Z-49

SCREEN LAYOUT

3. Number of rows: 24
4. Number of columns: 80
5. Top Row: 1
6. Left Column: 1
7. Printing in bottom right cause scroll? PROG

CURSOR ADDRESSING

8. Lead-in sequence:
ESC [1B 5B
9. Row or column first: ROW
10. Numeric form of row and column:
VARIABLE-LENGTH ASCII
11. Add offset to: Row: 0 Col: 0
12. Separator sequence:
;
3B
13. End sequence:
H
48

14. Cursor to top row, left column:
ESC [1 ; 1 H
1B 5B 31 3B 31 48
15. 10th Row, 50th Column:
ESC [1 0 ; 5 0 H
1B 5B 31 30 3B 35 30 48
16. Delay after positioning: 0
17. Cursor home:
ESC [H
1B 5B 48

ERASURE

DELAY

18. Entire screen:
ESC [2 J 0
1B 5B 32 4A
19. Cursor to end of screen:
ESC [J 0
1B 5B 4A
20. Beginning of screen to cursor:
ESC [1 J 0
1B 5B 31 4A
21. Cursor to end of line:
ESC [K 0
1B 5B 4B
22. Beginning of line to cursor:
ESC [1 K 0
1B 5B 31 4B
23. Entire cursor line:
ESC [2 K 0
1B 5B 32 4B

VIDEO ATTRIBUTES

ON OFF

24. Blinking:
ESC [5 m ESC [m
1B 5B 35 6D 1B 5B 6D
25. Reverse video:
ESC [7 m ESC [m
1B 5B 37 6D 1B 5B 6D
26. Underline:
ESC [4 m ESC [m
1B 5B 34 6D 1B 5B 6D
27. High intensity:
ESC [1 m ESC [m
1B 5B 31 6D 1B 5B 6D
28. Half intensity:

29. Attributes occupy position: NO
30. Attributes cumulative: YES
31. All attributes off:
ESC [m
1B 5B 6D

CURSOR CONTROL KEYS

32. Cursor up:
ESC [A
1B 5B 41
33. Cursor down:
ESC [B
1B 5B 42
34. Cursor right:
ESC [C
1B 5B 43
35. Cursor left:
ESC [D
1B 5B 44

CHARACTER SET

36. Full upper and lower ASCII: YES
37. Generate all control codes: YES
38. Bell or tone sequence:
^G
07

EMULATION

39. Conform to ANSI X3.64? YES
40. Terminals Emulated:
DEC VT-100

Manufacturer:
Terminal:

Zenith Data Systems
Z-49

41. Information provided by:
MANUFACTURER

42. PROGRAM FUNCTION KEYS

NOTES

1. ESC O P
1B 4F 50

4. Optionally 132.

36. Plus VT-100 graphics and
Z-29 graphics.

2. ESC O Q
1B 4F 51

42. PF keys programmable.

3. ESC O R
1B 4F 52

4. ESC O S
1B 4F 53

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

APPENDIX 1 — ASCII CODE CONVERSION CHART

Binary	Decimal	Octal	Hex	ASCII	Ctrl
0000 0000	000	000	00	NUL	^@
0000 0001	001	001	01	SOH	^A
0000 0010	002	002	02	STX	^B
0000 0011	003	003	03	ETX	^C
0000 0100	004	004	04	EQT	^D
0000 0101	005	005	05	ENQ	^E
0000 0110	006	006	06	ACK	^F
0000 0111	007	007	07	BEL	^G
0000 1000	008	010	08	BS	^H
0000 1001	009	011	09	HT	^I
0000 1010	010	012	0A	LF	^J
0000 1011	011	013	0B	VT	^K
0000 1100	012	014	0C	FF	^L
0000 1101	013	015	0D	CR	^M
0000 1110	014	016	0E	SD	^N
0000 1111	015	017	0F	SI	^O
0001 0000	016	020	10	DLE	^P
0001 0001	017	021	11	DC1	^Q
0001 0010	018	022	12	DC2	^R
0001 0011	019	023	13	DC3	^S
0001 0100	020	024	14	DC4	^T
0001 0101	021	025	15	NAK	^U
0001 0110	022	026	16	SYN	^V
0001 0111	023	027	17	ETB	^W
0001 1000	024	030	18	CAN	^X
0001 1001	025	031	19	EM	^Y
0001 1010	026	032	1A	SUB	^Z
0001 1011	027	033	1B	ESC	^[
0001 1100	028	034	1C	FS	^\
0001 1101	029	035	1D	GS	^]
0001 1110	030	036	1E	RS	^^
0001 1111	031	037	1F	US	^_
0010 0000	032	040	20	SP	
0010 0001	033	041	21	!	
0010 0010	034	042	22	"	
0010 0011	035	043	23	#	
0010 0100	036	044	24	\$	
0010 0101	037	045	25	%	
0010 0110	038	046	26	&	
0010 0111	039	047	27	'	
0010 1000	040	050	28	(	
0010 1001	041	051	29	)	
0010 1010	042	052	2A	*	
0010 1011	043	053	2B	+	
0010 1100	044	054	2C	,	
0010 1101	045	055	2D	-	
0010 1110	046	056	2E	.	
0010 1111	047	057	2F	/	
0011 0000	048	060	30	0	
0011 0001	049	061	31	1	
0011 0010	050	062	32	2	
0011 0011	051	063	33	3	
0011 0100	052	064	34	4	
0011 0101	053	065	35	5	
0011 0110	054	066	36	6	
0011 0111	055	067	37	7	
0011 1000	056	070	38	8	
0011 1001	057	071	39	9	
0011 1010	058	072	3A	:	
0011 1011	059	073	3B	;	
0011 1100	060	074	3C	<	
0011 1101	061	075	3D	=	
0011 1110	062	076	3E	>	
0011 1111	063	077	3F	?	

Binary	Decimal	Octal	Hex	ASCII
0100 0000	064	100	40	@
0100 0001	065	101	41	A
0100 0010	066	102	42	B
0100 0011	067	103	43	C
0100 0100	068	104	44	D
0100 0101	069	105	45	E
0100 0110	070	106	46	F
0100 0111	071	107	47	G
0100 1000	072	110	48	H
0100 1001	073	111	49	I
0100 1010	074	112	4A	J
0100 1011	075	113	4B	K
0100 1100	076	114	4C	L
0100 1101	077	115	4D	M
0100 1110	078	116	4E	N
0100 1111	079	117	4F	O
0101 0000	080	120	50	P
0101 0001	081	121	51	Q
0101 0010	082	122	52	R
0101 0011	083	123	53	S
0101 0100	084	124	54	T
0101 0101	085	125	55	U
0101 0110	086	126	56	V
0101 0111	087	127	57	W
0101 1000	088	130	58	X
0101 1001	089	131	59	Y
0101 1010	090	132	5A	Z
0101 1011	091	133	5B	[
0101 1100	092	134	5C	\
0101 1101	093	135	5D	]
0101 1110	094	136	5E	^
0101 1111	095	137	5F	_
0110 0000	096	140	60	`
0110 0001	097	141	61	a
0110 0010	098	142	62	b
0110 0011	099	143	63	c
0110 0100	100	144	64	d
0110 0101	101	145	65	e
0110 0110	102	146	66	f
0110 0111	103	147	67	g
0110 1000	104	150	68	h
0110 1001	105	151	69	i
0110 1010	106	152	6A	j
0110 1011	107	153	6B	k
0110 1100	108	154	6C	l
0110 1101	109	155	6D	m
0110 1110	110	156	6E	n
0110 1111	111	157	6F	o
0111 0000	112	160	70	p
0111 0001	113	161	71	q
0111 0010	114	162	72	r
0111 0011	115	163	73	s
0111 0100	116	164	74	t
0111 0101	117	165	75	u
0111 0110	118	166	76	v
0111 0111	119	167	77	w
0111 1000	120	170	78	x
0111 1001	121	171	79	y
0111 1010	122	172	7A	z
0111 1011	123	173	7B	{
0111 1100	124	174	7C	}
0111 1101	125	175	7D	~
0111 1110	126	176	7E	
0111 1111	127	177	7F	DEL

INDEX BY MANUFACTURER

Manufacturer	Terminal	Page
Altos Computer Systems	Altos II Terminal	29
Ann Arbor Terminals	Ambassador	31
Ann Arbor Terminals	Genie	33
Ann Arbor Terminals	Genie + Plus	35
Ann Arbor Terminals	Guru (TM)	37
ANSI	ANSI	39
Beehive International	ATL 008	41
Beehive International	ATL 083	43
Beehive International	ATL-004	45
Beehive International	ATL-078	47
Beehive International	DMSB (Standard)	49
Beehive International	DMSC (Basic)	51
Beehive International	DMSD (Plus)	53
Beehive International	Topper (in DM78 mode)	55
CIE Terminals	CIT-101 and CIT-101e (ANSI mode)	57
CIE Terminals	CIT-101 and CIT-101e (VT52 mode)	59
CIE Terminals	CIT-161 (ANSI mode)	61
CIE Terminals	CIT-161 (VT52 mode)	63
CIE Terminals	CIT-467 (ANSI mode)	65
CIE Terminals	CIT-467 (VT52 mode)	67
CIE Terminals	CIT-500 (ANSI mode)	69
CIE Terminals	CIT-500 (VT52 mode)	71
CIE Terminals	CIT-80 (ANSI mode)	73
CIE Terminals	CIT-80 (VT52 mode)	75
Cobar	Cobar 3100, Cobar 3132	77
Colorgraphic Communications Corp.	MVI-100 Model 100, 489, 119, 113	79
Colorgraphic Communications Corp.	MVI-100 Model 813/819 VT100 mode	81
Colorgraphic Communications Corp.	MVI-100 Model 813/819 ISC8001G mode	83
Colorgraphic Communications Corp.	MVI-7 Models 7, 719	85
Corona Data Systems Inc.	Personal Computer	87
Cromemco, Inc.	C-10	89
CTI DATA Corporation	CTI 3078	91
Digital Equipment Corporation	VT100, 101, 102, 131, 125	93
Digital Equipment Corporation	VT220, 240, 241	95
Digital Equipment Corporation	VT52, VT55	97
Digital Microsystems	DMS-3/F, DMS-15, DMS-501	99
Digital Microsystems	DMS-5080, DMS-5086	101
Direct Incorporated	825-(HP)	103
Direct Incorporated	828/1 (ANSI mode)	105
Direct Incorporated	828/1 (HP2622 mode)	107
Direct Incorporated	831	109
Esprit Systems Inc.	6310	111
Esprit Systems Inc.	Esprit	113
Esprit Systems Inc.	Esprit II	115
Esprit Systems Inc.	Esprit III	117
Esprit Systems Inc.	Esprit III Color	119
Esprit Systems Inc.	Exec 10	121
Esprit Systems Inc.	Exec 10/102	123
Esprit Systems Inc.	Exec 10/102 (ANSI mode)	125
Esprit Systems Inc.	Exec 10/25	127
Falco Data Products	Fame 100	129
Falco Data Products	Fame 78	131
Falco Data Products	Fame III	133
Falco Data Products	TS 2624-B	135
Falco Data Products	TS-1	137
Falco Data Products	TS-100/132	139
Falco Data Products	TS-42	141
FMG Corporation	FMG CP/M for TRS80 Model II	143
Franklin Computer Corp.	Ace Display	145
General Terminal Corporation	SW 10 (ANSI mode)	147
General Terminal Corporation	SW 10 (VT52 mode)	149
General Terminal Corporation	SW 80	151
GraphOn Corporation	GO-100	153
GraphOn Corporation	GO-140	155
Hewlett-Packard	HP 262X, 264X and HP 2382A	157
Hewlett-Packard	HP-150	159
Honeywell Information Systems	VIP 7201	161
Honeywell Information Systems	VIP 7301	163
Human Designed Systems, Inc.	Concept AVT Series	165
IBM	3101	167
Intecolor Corporation	2405	169
Intecolor Corporation	2427	171
Intecolor Corporation	E8001G	173

INDEX BY MANUFACTURER (Continued)

Manufacturer	Terminal	Page
Intecolor Corporation	E8001R	175
Intecolor Corporation	VHR19	177
Interaction Systems Inc.	TT150	179
Ithaca Intersystems, Inc.	Graphos I	181
Ithaca Intersystems, Inc.	Graphos II	183
Ithaca Intersystems, Inc.	Graphos III	185
Kaypro Corporation	Kaypro 2'84, 4'84, 10 and Robie	187
Kaypro Corporation	KP 2'83, KP 4'83	189
Kimtron Corporation	KT-10	191
Lear Siegler, Inc.	ADM 11	193
Lear Siegler, Inc.	ADM 12	195
Lear Siegler, Inc.	ADM 22	197
Lear Siegler, Inc.	ADM 24E	199
Lear Siegler, Inc.	ADM 3A	201
Lear Siegler, Inc.	ADM 5	203
Liberty Electronics	Freedom 100	205
Liberty Electronics	Freedom 110	207
Liberty Electronics	Freedom 200	209
Morrow Inc.	MDT 60	211
NCR Corp.	NCR 7910 (ANSI mode)	213
NCR Corp.	NCR 7910 (Model 1 mode)	215
NCR Corp.	NCR 7910 (Model 4 mode)	217
Paradyne	7811-01 Async	219
Pickles & Trout	CP/M - TRS-80 Models II, 12, 16	221
Prime Computer, Inc.	PST100	223
Qume	QVT-102	225
Qume	QVT-108	227
Radio Shack	TRS-80 DT-1	229
RCA	APT VP3801/VP4801	231
Sanyo	CRX-1100	233
Sanyo	MBC-1100	235
Sanyo	MBC-1200	237
Sanyo	MBC-4000 (CP/M-86 O.S.)	239
Sony Corporation of America	SMC-70 (IBM 3101)	241
Soroc	Challenger Series	243
Tab Products	TAB 132/15	245
Tandberg Data, Inc.	TDV 2220	247
TEC Inc.	ET 80B	249
Tektronix	4105, 4107, 4109 (ANSI mode)	251
Teleray	Model 100	253
Teleray	Model 16	255
Teleray	Model 7	257
Teletype Corporation	5410	259
Teletype Corporation	5420	261
Televideo	910	263
Televideo	910 +	265
Televideo	914	267
Televideo	924	269
Televideo	925	271
Televideo	950	273
Televideo	970	275
Televideo	Personal Terminal	277
Termiflex	HT/1000	279
Texas Instruments	931	281
Texas Instruments	Professional Computer	283
Tymshare	Scanset 410, 415/HS, XL-HS	285
Vector Graphic, Inc.	Vector 4 & 4S & VSX	287
Visual Technology	V102	289
Visual Technology	V330 (DG D200 mode)	291
Visual Technology	V500 (LSI ADM3A mode)	293
Visual Technology	Visual 100	295
Visual Technology	Visual 100 (VT52 mode)	297
Visual Technology	Visual 300 (VT100 mode)	299
Visual Technology	Visual 50/55 (Esprit mode)	301
Visual Technology	Visual 50/55 (VT52 mode)	303
Wyse Technology	WY-100	305
Wyse Technology	WY-300	307
Wyse Technology	WY-50	309
Wyse Technology	WY-75	311
Zenith Data Systems	ZT-10	313
Zenith Data Systems	Z-19-HW	315
Zenith Data Systems	Z-29	317
Zenith Data Systems	Z-49	319

INDEX BY TERMINAL

Terminal	Manufacturer	Page
2405	Intecolor Corporation	169
2427	Intecolor Corporation	171
3101	IBM	167
4105, 4107, 4109 (ANSI mode)	Tektronix	251
5410	Teletype Corporation	259
5420	Teletype Corporation	261
6310	Esprit Systems Inc.	111
7811-01 Async	Paradyne	219
825-(HP)	Direct Incorporated	103
828/1 (ANSI mode)	Direct Incorporated	105
828/1 (HP2622 mode)	Direct Incorporated	107
831	Direct Incorporated	109
910	Televideo	263
910 +	Televideo	265
914	Televideo	267
924	Televideo	269
925	Televideo	271
931	Texas Instruments	281
950	Televideo	273
970	Televideo	275
ADM 11	Lear Siegler, Inc.	193
ADM 12	Lear Siegler, Inc.	195
ADM 22	Lear Siegler, Inc.	197
ADM 24E	Lear Siegler, Inc.	199
ADM 3A	Lear Siegler, Inc.	201
ADM 5	Lear Siegler, Inc.	203
ANSI	ANSI	39
APT VP3801/VP4801	RCA	231
ATL 008	Beehive International	41
ATL 083	Beehive International	43
ATL-004	Beehive International	45
ATL-078	Beehive International	47
Ace Display	Franklin Computer Corp.	145
Altos II Terminal	Altos Computer Systems	29
Ambassador	Ann Arbor Terminals	31
C-10	Cromemco, Inc.	89
CIT-101 and CIT-101e (ANSI mode)	CIE Terminals	57
CIT-101 and CIT-101e (VT52 mode)	CIE Terminals	59
CIT-161 (ANSI mode)	CIE Terminals	61
CIT-161 (VT52 mode)	CIE Terminals	63
CIT-467 (ANSI mode)	CIE Terminals	65
CIT-467 (VT52 mode)	CIE Terminals	67
CIT-500 (ANSI mode)	CIE Terminals	69
CIT-500 (VT52 mode)	CIE Terminals	71
CIT-80 (ANSI mode)	CIE Terminals	73
CIT-80 (VT52 mode)	CIE Terminals	75
CP/M - TRS-80 Models II, 12, 16	Pickles & Trout	221
CRX-1100	Sanyo	233
CTi 3078	CTi DATA Corporation	91
Challenger Series	Soroc	243
Cobar 3100, Cobar 3132	Cobar	77
Concept AVT Series	Human Designed Systems, Inc.	165
DMS-3/F, DMS-15, DMS-501	Digital Microsystems	99
DMS-5080, DMS-5086	Digital Microsystems	101
DMSB (Standard)	Beehive International	49
DMSC (Basic)	Beehive International	51
DMSD (Plus)	Beehive International	53
E8001G	Intecolor Corporation	173
E8001R	Intecolor Corporation	175
ET 80B	TEC Inc.	249
Esprit	Esprit Systems Inc.	113
Esprit II	Esprit Systems Inc.	115
Esprit III	Esprit Systems Inc.	117
Esprit III Color	Esprit Systems Inc.	119
Exec 10	Esprit Systems Inc.	121
Exec 10/102	Esprit Systems Inc.	123
Exec 10/102 (ANSI mode)	Esprit Systems Inc.	125
Exec 10/25	Esprit Systems Inc.	127
FMG CP/M for TRS80 Model II	FMG Corporation	143
Fame 100	Falco Data Products	129
Fame 78	Falco Data Products	131
Fame III	Falco Data Products	133
Freedom 100	Liberty Electronics	205

INDEX BY TERMINAL (Continued)

Terminal	Manufacturer	Page
Freedom 110	Liberty Electronics	207
Freedom 200	Liberty Electronics	209
GO-100	GraphOn Corporation	153
GO-140	GraphOn Corporation	155
Genie	Ann Arbor Terminals	33
Genie + Plus	Ann Arbor Terminals	35
Graphos I	Ithaca Intersystems, Inc.	181
Graphos II	Ithaca Intersystems, Inc.	183
Graphos III	Ithaca Intersystems, Inc.	185
Guru (TM)	Ann Arbor Terminals	37
HP 262X, 264X and HP 2382A	Hewlett-Packard	157
HP-150	Hewlett-Packard	159
HT/1000	Termiflex	279
KP 2'83, KP 4'83	Kaypro Corporation	189
KT-10	Kimtron Corporation	191
Kaypro 2'84, 4'84, 10 and Robie	Kaypro Corporation	187
MBC-1100	Sanyo	235
MBC-1200	Sanyo	237
MBC-4000 (CP/M-86 O.S.)	Sanyo	239
MDT 60	Morrow Inc.	211
MVI-100 Model 100, 489, 119, 113	Colorgraphic Communications Corp.	79
MVI-100 Model 813/819 ISC8001G mode	Colorgraphic Communications Corp.	83
MVI-100 Model 813/819 VT100 mode	Colorgraphic Communications Corp.	81
MVI-7 Models 7, 719	Colorgraphic Communications Corp.	85
Model 100	Teleray	253
Model 16	Teleray	255
Model 7	Teleray	257
NCR 7910 (ANSI mode)	NCR Corp.	213
NCR 7910 (Model 1 mode)	NCR Corp.	215
NCR 7910 (Model 4 mode)	NCR Corp.	217
PST100	Prime Computer, Inc.	223
Personal Computer	Corona Data Systems Inc.	87
Personal Terminal	Televideo	277
Professional Computer	Texas Instruments	283
QVT-102	Qume	225
QVT-108	Qume	227
SMC-70 (IBM 3101)	Sony Corporation of America	241
SW 10 (ANSI mode)	General Terminal Corporation	147
SW 10 (VT52 mode)	General Terminal Corporation	149
SW 80	General Terminal Corporation	151
Scanset 410, 415/HS, XL-HS	Tymshare	285
TAB 132/15	Tab Products	245
TDV 2220	Tandberg Data, Inc.	247
TRS-80 DT-1	Radio Shack	229
TS 2624-B	Falco Data Products	135
TS-1	Falco Data Products	137
TS-100/132	Falco Data Products	139
TS-42	Falco Data Products	141
TT150	Interaction Systems Inc.	179
Topper (in DM78 mode)	Beehive International	55
V102	Visual Technology	289
V330 (DG D200 mode)	Visual Technology	291
V500 (LSI ADM3A mode)	Visual Technology	293
VHR19	Intecolor Corporation	177
VIP 7201	Honeywell Information Systems	161
VIP 7301	Honeywell Information Systems	163
VT100, 101, 102, 131, 125	Digital Equipment Corporation	93
VT220, 240, 241	Digital Equipment Corporation	95
VT52, VT55	Digital Equipment Corporation	97
Vector 4 & 4S & VSX	Vector Graphic, Inc.	287
Visual 100	Visual Technology	295
Visual 100 (VT52 mode)	Visual Technology	297
Visual 300 (VT100 mode)	Visual Technology	299
Visual 50/55 (Esprit mode)	Visual Technology	301
Visual 50/55 (VT52 mode)	Visual Technology	303
WY-100	Wyse Technology	305
WY-300	Wyse Technology	307
WY-50	Wyse Technology	309
WY-75	Wyse Technology	311
Z-19-HW	Zenith Data Systems	315
Z-29	Zenith Data Systems	317
Z-49	Zenith Data Systems	319
ZT-10	Zenith Data Systems	313

INDEX BY CURSOR ADDRESS LEAD-IN

Lead-in	Manufacturer	Terminal	Page
03	Colorgraphic Communications Corp.	MVI-100 Model 813/819 ISC8001G mode	83
03	Intecolor Corporation	E8001G	173
03	Intecolor Corporation	E8001R	175
0B	NCR Corp.	NCR 7910 (Model 4 mode)	217
10	Visual Technology	V330 (DG D200 mode)	291
1B 11	Esprit Systems Inc.	6310	111
1B 11	Esprit Systems Inc.	Esprit	113
1B 11	Esprit Systems Inc.	Esprit II	115
1B 11	Esprit Systems Inc.	Exec 10	121
1B 11	Esprit Systems Inc.	Exec 10/25	127
1B 11	FMG Corporation	FMG CP/M for TRS80 Model II	143
1B 22	Beehive International	ATL 083	43
1B 26 61	Direct Incorporated	825-(HP)	103
1B 26 61	Direct Incorporated	828/1 (HP2622 mode)	107
1B 26 61	Falco Data Products	TS 2624-B	135
1B 26 61	Hewlett-Packard	HP 262X, 264X and HP 2382A	157
1B 26 61	Hewlett-Packard	HP-150	159
1B 31	NCR Corp.	NCR 7910 (Model 1 mode)	215
1B 3D	Esprit Systems Inc.	Esprit III	117
1B 3D	Esprit Systems Inc.	Esprit III Color	119
1B 3D	Falco Data Products	TS-1	137
1B 3D	Falco Data Products	TS-42	141
1B 3D	General Terminal Corporation	SW 80	151
1B 3D	Interaction Systems Inc.	TT150	179
1B 3D	Kaypro Corporation	Kaypro 2'84, 4'84, 10 and Robie	187
1B 3D	Kaypro Corporation	KP 2'83, KP 4'83	189
1B 3D	Lear Siegler, Inc.	ADM 11	193
1B 3D	Lear Siegler, Inc.	ADM 12	195
1B 3D	Lear Siegler, Inc.	ADM 22	197
1B 3D	Lear Siegler, Inc.	ADM 24E	199
1B 3D	Lear Siegler, Inc.	ADM 3A	201
1B 3D	Lear Siegler, Inc.	ADM 5	203
1B 3D	Liberty Electronics	Freedom 100	205
1B 3D	Liberty Electronics	Freedom 110	207
1B 3D	Liberty Electronics	Freedom 200	209
1B 3D	Morrow Inc.	MDT 60	211
1B 3D	Paradyne	7811-01 Async	219
1B 3D	Qume	QVT-102	225
1B 3D	Qume	QVT-108	227
1B 3D	Sanyo	MBC-1200	237
1B 3D	Soroc	Challenger Series	243
1B 3D	Televideo	910	263
1B 3D	Televideo	910 +	265
1B 3D	Televideo	914	267
1B 3D	Televideo	924	269
1B 3D	Televideo	925	271
1B 3D	Televideo	950	273
1B 3D	Televideo	Personal Terminal	277
1B 3D	Visual Technology	V500 (LSI ADM3A mode)	293
1B 3D	Wyse Technology	WY-100	305
1B 3D	Wyse Technology	WY-300	307
1B 3D	Wyse Technology	WY-50	309
1B 3E	Radio Shack	TRS-80 DT-1	229
1B 46	Beehive International	ATL-004	45
1B 46	Beehive International	ATL-078	47
1B 46	Beehive International	DMSB (Standard)	49
1B 46	Beehive International	DMSC (Basic)	51
1B 46	Beehive International	DMSD (Plus)	53
1B 46	Beehive International	Topper (in DM78 mode)	55
1B 46	Falco Data Products	Fame 78	131
1B 46	Sanyo	CRX-1100	233
1B 46	Sanyo	MBC-1100	235
1B 46	Sanyo	MBC-4000 (CP/M-86 O.S.)	239
1B 59	CIE Terminals	CIT-101 and CIT-101e (VT52 mode)	59
1B 59	CIE Terminals	CIT-161 (VT52 mode)	63
1B 59	CIE Terminals	CIT-467 (VT52 mode)	67
1B 59	CIE Terminals	CIT-500 (VT52 mode)	71
1B 59	CIE Terminals	CIT-80 (VT52 mode)	75
1B 59	Cromemco, Inc.	C-10	89
1B 59	CTI DATA Corporation	CTi 3078	91
1B 59	Digital Equipment Corporation	VT52, VT55	97
1B 59	Digital Microsystems	DMS-3/F, DMS-15, DMS-501	99
1B 59	Digital Microsystems	DMS-5080, DMS-5086	101

INDEX BY CURSOR ADDRESS LEAD-IN (Continued)

Lead-in	Manufacturer	Terminal	Page
1B 59	Esprit Systems Inc.	Exec 10/102	123
1B 59	General Terminal Corporation	SW 10 (VT52 mode)	149
1B 59	IBM	3101	167
1B 59	Pickles & Trout	CP/M - TRS-80 Models II, 12, 16	221
1B 59	RCA	APT VP3801/VP4801	231
1B 59	Sony Corporation of America	SMC-70 (IBM 3101)	241
1B 59	Termiflex	HT/1000	279
1B 59	Texas Instruments	931	281
1B 59	Tymshare	Scanset 410, 415/HS, XL-HS	285
1B 59	Visual Technology	Visual 100 (VT52 mode)	297
1B 59	Visual Technology	Visual 50/55 (VT52 mode)	303
1B 59	Zenith Data Systems	ZT-10	313
1B 5B	Altos Computer Systems	Altos II Terminal	29
1B 5B	Ann Arbor Terminals	Ambassador	31
1B 5B	Ann Arbor Terminals	Genie	33
1B 5B	Ann Arbor Terminals	Genie + Plus	35
1B 5B	Ann Arbor Terminals	Guru (TM)	37
1B 5B	ANSI	ANSI	39
1B 5B	Beehive International	ATL 008	41
1B 5B	CIE Terminals	CIT-101 and CIT-101e (ANSI mode)	57
1B 5B	CIE Terminals	CIT-161 (ANSI mode)	61
1B 5B	CIE Terminals	CIT-467 (ANSI mode)	65
1B 5B	CIE Terminals	CIT-500 (ANSI mode)	69
1B 5B	CIE Terminals	CIT-80 (ANSI mode)	73
1B 5B	Cobar	Cobar 3100, Cobar 3132	77
1B 5B	Colorgraphic Communications Corp.	MVI-100 Model 100, 489, 119, 113	79
1B 5B	Colorgraphic Communications Corp.	MVI-100 Model 813/819 VT100 mode	81
1B 5B	Colorgraphic Communications Corp.	MVI-7 Models 7, 719	85
1B 5B	Corona Data Systems Inc.	Personal Computer	87
1B 5B	Digital Equipment Corporation	VT100, 101, 102, 131, 125	93
1B 5B	Digital Equipment Corporation	VT220, 240, 241	95
1B 5B	Direct Incorporated	828/1 (ANSI mode)	105
1B 5B	Direct Incorporated	831	109
1B 5B	Esprit Systems Inc.	Exec 10/102 (ANSI mode)	125
1B 5B	Falco Data Products	Fame 100	129
1B 5B	Falco Data Products	Fame III	133
1B 5B	Falco Data Products	TS-100/132	139
1B 5B	General Terminal Corporation	SW 10 (ANSI mode)	147
1B 5B	GraphOn Corporation	GO-100	153
1B 5B	GraphOn Corporation	GO-140	155
1B 5B	Human Designed Systems, Inc.	Concept AVT Series	165
1B 5B	Intecolor Corporation	2405	169
1B 5B	Intecolor Corporation	2427	171
1B 5B	Intecolor Corporation	VHR19	177
1B 5B	Ithaca Intersystems, Inc.	Graphos I	181
1B 5B	Ithaca Intersystems, Inc.	Graphos II	183
1B 5B	Ithaca Intersystems, Inc.	Graphos III	185
1B 5B	Kimtron Corporation	KT-10	191
1B 5B	NCR Corp.	NCR 7910 (ANSI mode)	213
1B 5B	Prime Computer, Inc.	PST100	223
1B 5B	Tab Products	TAB 132/15	245
1B 5B	Tandberg Data, Inc.	TDV 2220	247
1B 5B	TEC Inc.	ET 80B	249
1B 5B	Tektronix	4105, 4107, 4109 (ANSI mode)	251
1B 5B	Teleray	Model 100	253
1B 5B	Teleray	Model 16	255
1B 5B	Teleray	Model 7	257
1B 5B	Teletype Corporation	5410	259
1B 5B	Teletype Corporation	5420	261
1B 5B	Televideo	970	275
1B 5B	Texas Instruments	Professional Computer	283
1B 5B	Vector Graphic, Inc.	Vector 4 & 4S & VSX	287
1B 5B	Visual Technology	V102	289
1B 5B	Visual Technology	Visual 100	295
1B 5B	Visual Technology	Visual 300 (VT100 mode)	299
1B 5B	Wyse Technology	WY-75	311
1B 5B	Zenith Data Systems	Z-19-HW	315
1B 5B	Zenith Data Systems	Z-29	317
1B 5B	Zenith Data Systems	Z-49	319
1B 66	Honeywell Information Systems	VIP 7201	161
1B 66	Honeywell Information Systems	VIP 7301	163
1E	Franklin Computer Corp.	Ace Display	145
7E 11	Visual Technology	Visual 50/55 (Esprit mode)	301

INDEX BY CLEAR-SCREEN SEQUENCE

Clear	Manufacturer	Terminal	Page
	Direct Incorporated	825-(HP)	103
	Direct Incorporated	828/1 (HP2622 mode)	107
	Termiflex	HT/1000	279
0C	Colorgraphic Communications Corp.	MVI-100 Model 813/819 ISC8001G mode	83
0C	CTI DATA Corporation	CTI 3078	91
0C	Digital Microsystems	DMS-3/F, DMS-15, DMS-501	99
0C	Digital Microsystems	DMS-5080, DMS-5086	101
0C	Franklin Computer Corp.	Ace Display	145
0C	Intecolor Corporation	E8001G	173
0C	Intecolor Corporation	E8001R	175
0C	NCR Corp.	NCR 7910 (ANSI mode)	213
0C	NCR Corp.	NCR 7910 (Model 1 mode)	215
0C	NCR Corp.	NCR 7910 (Model 4 mode)	217
0C	Pickles & Trout	CP/M - TRS-80 Models II, 12, 16	221
0C	Sanyo	CRX-1100	233
0C	Visual Technology	V330 (DG D200 mode)	291
1A	Interaction Systems Inc.	TT150	179
1A	Kaypro Corporation	Kaypro 2'84, 4'84, 10 and Robie	187
1A	Kaypro Corporation	KP 2'83, KP 4'83	189
1A	Lear Siegler, Inc.	ADM 11	193
1A	Lear Siegler, Inc.	ADM 12	195
1A	Lear Siegler, Inc.	ADM 22	197
1A	Lear Siegler, Inc.	ADM 24E	199
1A	Lear Siegler, Inc.	ADM 3A	201
1A	Lear Siegler, Inc.	ADM 5	203
1A	Morrow Inc.	MDT 60	211
1A	Sanyo	MBC-1100	235
1A	Sanyo	MBC-1200	237
1A	Sanyo	MBC-4000 (CP/M-86 O.S.)	239
1A	Televideo	910	263
1A	Televideo	910 +	265
1A	Televideo	914	267
1A	Televideo	924	269
1A	Televideo	925	271
1A	Televideo	950	273
1A	Televideo	Personal Terminal	277
1A	Wyse Technology	WY-100	305
1A	Wyse Technology	WY-300	307
1A	Wyse Technology	WY-50	309
1B 13	FMG Corporation	FMG CP/M for TRS80 Model II	143
1B 1A	Visual Technology	Visual 50/55 (VT52 mode)	303
1B 1C	Esprit Systems Inc.	6310	111
1B 1C	Esprit Systems Inc.	Esprit	113
1B 1C	Esprit Systems Inc.	Esprit II	115
1B 1C	Esprit Systems Inc.	Exec 10	121
1B 1C	Esprit Systems Inc.	Exec 10/25	127
1B 2A	Esprit Systems Inc.	Esprit III	117
1B 2A	Esprit Systems Inc.	Esprit III Color	119
1B 2A	Falco Data Products	TS-1	137
1B 2A	Falco Data Products	TS-42	141
1B 2A	Liberty Electronics	Freedom 100	205
1B 2A	Liberty Electronics	Freedom 110	207
1B 2A	Liberty Electronics	Freedom 200	209
1B 2A	Qume	QVT-102	225
1B 2A	Qume	QVT-108	227
1B 2A	Radio Shack	TRS-80 DT-1	229
1B 2A	Soroc	Challenger Series	243
1B 2B	Paradyne	7811-01 Async	219
1B 3E	Tymshare	Scanset 410, 415/HS, XL-HS	285
1B 45	Beehive International	ATL-004	45
1B 45	Beehive International	ATL-078	47
1B 45	Beehive International	DMSB (Standard)	49
1B 45	Beehive International	DMSC (Basic)	51
1B 45	Beehive International	DMSD (Plus)	53
1B 45	Beehive International	Topper (in DM78 mode)	55
1B 45	Cromemco, Inc.	C-10	89
1B 45	Falco Data Products	Fame 78	131
1B 45	Zenith Data Systems	ZT-10	313
1B 48 1B 4A	CIE Terminals	CIT-101 and CIT-101e (VT52 mode)	59
1B 48 1B 4A	CIE Terminals	CIT-161 (VT52 mode)	63
1B 48 1B 4A	CIE Terminals	CIT-467 (VT52 mode)	67
1B 48 1B 4A	CIE Terminals	CIT-500 (VT52 mode)	71
1B 48 1B 4A	CIE Terminals	CIT-80 (VT52 mode)	75

INDEX BY CLEAR-SCREEN SEQUENCE (Continued)

Clear	Manufacturer	Terminal	Page
1B 48 1B 4A	Digital Equipment Corporation	VT52, VT55	97
1B 48 1B 4A	General Terminal Corporation	SW 10 (VT52 mode)	149
1B 48 1B 4A	General Terminal Corporation	SW 80	151
1B 48 1B 4A	Visual Technology	Visual 100 (VT52 mode)	297
1B 4A 32	Esprit Systems Inc.	Exec 10/102	123
1B 4B	IBM	3101	167
1B 4C	Sony Corporation of America	SMC-70 (IBM 3101)	241
1B 4C	Texas Instruments	931	281
1B 5B 32 4A	Altos Computer Systems	Altos II Terminal	29
1B 5B 32 4A	Ann Arbor Terminals	Ambassador	31
1B 5B 32 4A	Ann Arbor Terminals	Genie	33
1B 5B 32 4A	Ann Arbor Terminals	Genie + Plus	35
1B 5B 32 4A	Ann Arbor Terminals	Guru (TM)	37
1B 5B 32 4A	ANSI	ANSI	39
1B 5B 32 4A	Beehive International	ATL 008	41
1B 5B 32 4A	CIE Terminals	CIT-101 and CIT-101e (ANSI mode)	57
1B 5B 32 4A	CIE Terminals	CIT-161 (ANSI mode)	61
1B 5B 32 4A	CIE Terminals	CIT-467 (ANSI mode)	65
1B 5B 32 4A	CIE Terminals	CIT-500 (ANSI mode)	69
1B 5B 32 4A	CIE Terminals	CIT-80 (ANSI mode)	73
1B 5B 32 4A	Cobar	Cobar 3100, Cobar 3132	77
1B 5B 32 4A	Colorgraphic Communications Corp.	MVI-100 Model 100, 489, 119, 113	79
1B 5B 32 4A	Colorgraphic Communications Corp.	MVI-100 Model 813/819 VT100 mode	81
1B 5B 32 4A	Colorgraphic Communications Corp.	MVI-7 Models 7, 719	85
1B 5B 32 4A	Corona Data Systems Inc.	Personal Computer	87
1B 5B 32 4A	Digital Equipment Corporation	VT100, 101, 102, 131, 125	93
1B 5B 32 4A	Digital Equipment Corporation	VT220, 240, 241	95
1B 5B 32 4A	Direct Incorporated	828/1 (ANSI mode)	105
1B 5B 32 4A	Direct Incorporated	831	109
1B 5B 32 4A	Esprit Systems Inc.	Exec 10/102 (ANSI mode)	125
1B 5B 32 4A	Falco Data Products	Fame 100	129
1B 5B 32 4A	Falco Data Products	Fame III	133
1B 5B 32 4A	Falco Data Products	TS-100/132	139
1B 5B 32 4A	General Terminal Corporation	SW 10 (ANSI mode)	147
1B 5B 32 4A	GraphOn Corporation	GO-100	153
1B 5B 32 4A	GraphOn Corporation	GO-140	155
1B 5B 32 4A	Human Designed Systems, Inc.	Concept AVT Series	165
1B 5B 32 4A	Intecolor Corporation	2405	169
1B 5B 32 4A	Intecolor Corporation	2427	171
1B 5B 32 4A	Intecolor Corporation	VHR19	177
1B 5B 32 4A	Ithaca Intersystems, Inc.	Graphos I	181
1B 5B 32 4A	Ithaca Intersystems, Inc.	Graphos II	183
1B 5B 32 4A	Ithaca Intersystems, Inc.	Graphos III	185
1B 5B 32 4A	Kimtron Corporation	KT-10	191
1B 5B 32 4A	Prime Computer, Inc.	PST100	223
1B 5B 32 4A	Tab Products	TAB 132/15	245
1B 5B 32 4A	Tandberg Data, Inc.	TDV 2220	247
1B 5B 32 4A	TEC Inc.	ET 80B	249
1B 5B 32 4A	Tektronix	4105, 4107, 4109 (ANSI mode)	251
1B 5B 32 4A	Teleray	Model 100	253
1B 5B 32 4A	Teleray	Model 16	255
1B 5B 32 4A	Teleray	Model 7	257
1B 5B 32 4A	Teletype Corporation	5410	259
1B 5B 32 4A	Teletype Corporation	5420	261
1B 5B 32 4A	Televideo	970	275
1B 5B 32 4A	Texas Instruments	Professional Computer	283
1B 5B 32 4A	Vector Graphic, Inc.	Vector 4 & 4S & VSX	287
1B 5B 32 4A	Visual Technology	V102	289
1B 5B 32 4A	Visual Technology	Visual 100	295
1B 5B 32 4A	Visual Technology	Visual 300 (VT100 mode)	299
1B 5B 32 4A	Wyse Technology	WY-75	311
1B 5B 32 4A	Zenith Data Systems	Z-19-HW	315
1B 5B 32 4A	Zenith Data Systems	Z-29	317
1B 5B 32 4A	Zenith Data Systems	Z-49	319
1B 60	Honeywell Information Systems	VIP 7201	161
1B 60	Honeywell Information Systems	VIP 7301	163
1B 68 1B 4A	Falco Data Products	TS 2624-B	135
1B 68 1B 4A	Hewlett-Packard	HP 262X, 264X and HP 2382A	157
1B 68 1B 4A	Hewlett-Packard	HP-150	159
1B 6A	RCA	APT VP3801/VP4801	231
1B 6F	Beehive International	ATL 083	43
1B 77	Visual Technology	V500 (LSI ADM3A mode)	293
7E 52	Visual Technology	Visual 50/55 (Esprit mode)	301

INDEX BY ROW OR COLUMN FIRST IN CURSOR ADDRESS

R/C	Manufacturer	Terminal	Page
C	Beehive International	ATL 083	43
C	Colorgraphic Communications Corp.	MVI-100 Model 813/819 ISC8001G mode	83
C	Direct Incorporated	825-(HP)	103
C	Direct Incorporated	828/1 (HP2622 mode)	107
C	Esprit Systems Inc.	6310	111
C	Esprit Systems Inc.	Esprit	113
C	Esprit Systems Inc.	Esprit II	115
C	Esprit Systems Inc.	Esprit III	117
C	Esprit Systems Inc.	Esprit III Color	119
C	Esprit Systems Inc.	Exec 10	121
C	Esprit Systems Inc.	Exec 10/102	123
C	Esprit Systems Inc.	Exec 10/25	127
C	Falco Data Products	TS 2624-B	135
C	FMG Corporation	FMG CP/M for TRS80 Model II	143
C	Franklin Computer Corp.	Ace Display	145
C	Hewlett-Packard	HP 262X, 264X and HP 2382A	157
C	Hewlett-Packard	HP-150	159
C	Intecolor Corporation	E8001G	173
C	Intecolor Corporation	E8001R	175
C	NCR Corp.	NCR 7910 (Model 1 mode)	215
C	Visual Technology	V330 (DG D200 mode)	291
C	Visual Technology	Visual 50/55 (Esprit mode)	301
R	Altos Computer Systems	Altos II Terminal	29
R	Ann Arbor Terminals	Ambassador	31
R	Ann Arbor Terminals	Genie	33
R	Ann Arbor Terminals	Genie + Plus	35
R	Ann Arbor Terminals	Guru (TM)	37
R	ANSI	ANSI	39
R	Beehive International	ATL 008	41
R	Beehive International	ATL-004	45
R	Beehive International	ATL-078	47
R	Beehive International	DMSB (Standard)	49
R	Beehive International	DMSC (Basic)	51
R	Beehive International	DMSD (Plus)	53
R	Beehive International	Topper (in DM78 mode)	55
R	CIE Terminals	CIT-101 and CIT-101e (ANSI mode)	57
R	CIE Terminals	CIT-101 and CIT-101e (VT52 mode)	59
R	CIE Terminals	CIT-161 (ANSI mode)	61
R	CIE Terminals	CIT-161 (VT52 mode)	63
R	CIE Terminals	CIT-467 (ANSI mode)	65
R	CIE Terminals	CIT-467 (VT52 mode)	67
R	CIE Terminals	CIT-500 (ANSI mode)	69
R	CIE Terminals	CIT-500 (VT52 mode)	71
R	CIE Terminals	CIT-80 (ANSI mode)	73
R	CIE Terminals	CIT-80 (VT52 mode)	75
R	Cobar	Cobar 3100, Cobar 3132	77
R	Colorgraphic Communications Corp.	MVI-100 Model 100, 489, 119, 113	79
R	Colorgraphic Communications Corp.	MVI-100 Model 813/819 VT100 mode	81
R	Colorgraphic Communications Corp.	MVI-7 Models 7, 719	85
R	Corona Data Systems Inc.	Personal Computer	87
R	Cromemco, Inc.	C-10	89
R	CTi DATA Corporation	CTi 3078	91
R	Digital Equipment Corporation	VT100, 101, 102, 131, 125	93
R	Digital Equipment Corporation	VT220, 240, 241	95
R	Digital Equipment Corporation	VT52, VT55	97
R	Digital Microsystems	DMS-3/F, DMS-15, DMS-501	99
R	Digital Microsystems	DMS-5080, DMS-5086	101
R	Direct Incorporated	828/1 (ANSI mode)	105
R	Direct Incorporated	831	109
R	Esprit Systems Inc.	Exec 10/102 (ANSI mode)	125
R	Falco Data Products	Fame 100	129
R	Falco Data Products	Fame 78	131
R	Falco Data Products	Fame III	133
R	Falco Data Products	TS-1	137
R	Falco Data Products	TS-100/132	139
R	Falco Data Products	TS-42	141
R	General Terminal Corporation	SW 10 (ANSI mode)	147
R	General Terminal Corporation	SW 10 (VT52 mode)	149
R	General Terminal Corporation	SW 80	151
R	GraphOn Corporation	GO-100	153
R	GraphOn Corporation	GO-140	155
R	Honeywell Information Systems	VIP 7201	161
R	Honeywell Information Systems	VIP 7301	163

INDEX BY ROW OR COLUMN FIRST (Continued)

R/C	Manufacturer	Terminal	Page
R	Human Designed Systems, Inc.	Concept AVT Series	165
R	IBM	3101	167
R	Intecolor Corporation	2405	169
R	Intecolor Corporation	2427	171
R	Intecolor Corporation	VHR19	177
R	Interaction Systems Inc.	TT150	179
R	Ithaca Intersystems, Inc.	Graphos I	181
R	Ithaca Intersystems, Inc.	Graphos II	183
R	Ithaca Intersystems, Inc.	Graphos III	185
R	Kaypro Corporation	Kaypro 2'84, 4'84, 10 and Robie	187
R	Kaypro Corporation	KP 2'83, KP 4'83	189
R	Kimtron Corporation	KT-10	191
R	Lear Siegler, Inc.	ADM 11	193
R	Lear Siegler, Inc.	ADM 12	195
R	Lear Siegler, Inc.	ADM 22	197
R	Lear Siegler, Inc.	ADM 24E	199
R	Lear Siegler, Inc.	ADM 3A	201
R	Lear Siegler, Inc.	ADM 5	203
R	Liberty Electronics	Freedom 100	205
R	Liberty Electronics	Freedom 110	207
R	Liberty Electronics	Freedom 200	209
R	Morrow Inc.	MDT 60	211
R	NCR Corp.	NCR 7910 (ANSI mode)	213
R	NCR Corp.	NCR 7910 (Model 4 mode)	217
R	Paradyne	7811-01 Async	219
R	Pickles & Trout	CP/M - TRS-80 Models II, 12, 16	221
R	Prime Computer, Inc.	PST100	223
R	Qume	QVT-102	225
R	Qume	QVT-108	227
R	Radio Shack	TRS-80 DT-1	229
R	RCA	APT VP3801/VP4801	231
R	Sanyo	CRX-1100	233
R	Sanyo	MBC-1100	235
R	Sanyo	MBC-1200	237
R	Sanyo	MBC-4000 (CP/M-86 O.S.)	239
R	Sony Corporation of America	SMC-70 (IBM 3101)	241
R	Soroc	Challenger Series	243
R	Tab Products	TAB 132/15	245
R	Tandberg Data, Inc.	TDV 2220	247
R	TEC Inc.	ET 80B	249
R	Tektronix	4105, 4107, 4109 (ANSI mode)	251
R	Teleray	Model 100	253
R	Teleray	Model 16	255
R	Teleray	Model 7	257
R	Teletype Corporation	5410	259
R	Teletype Corporation	5420	261
R	Televideo	910	263
R	Televideo	910 +	265
R	Televideo	914	267
R	Televideo	924	269
R	Televideo	925	271
R	Televideo	950	273
R	Televideo	970	275
R	Televideo	Personal Terminal	277
R	Termiflex	HT/1000	279
R	Texas Instruments	931	281
R	Texas Instruments	Professional Computer	283
R	Tymshare	Scanset 410, 415/HS, XL-HS	285
R	Vector Graphic, Inc.	Vector 4 & 4S & VSX	287
R	Visual Technology	V102	289
R	Visual Technology	V500 (LSI ADM3A mode)	293
R	Visual Technology	Visual 100	295
R	Visual Technology	Visual 100 (VT52 mode)	297
R	Visual Technology	Visual 300 (VT100 mode)	299
R	Visual Technology	Visual 50/55 (VT52 mode)	303
R	Wyse Technology	WY-100	305
R	Wyse Technology	WY-300	307
R	Wyse Technology	WY-50	309
R	Wyse Technology	WY-75	311
R	Zenith Data Systems	ZT-10	313
R	Zenith Data Systems	Z-19-HW	315
R	Zenith Data Systems	Z-29	317
R	Zenith Data Systems	Z-49	319

INDEX BY FORM OF CURSOR ADDRESS

Form	Manufacturer	Terminal	Page
B	Beehive International	ATL 083	43
B	Beehive International	ATL-004	45
B	Beehive International	ATL-078	47
B	Beehive International	DMSB (Standard)	49
B	Beehive International	DMSC (Basic)	51
B	Beehive International	DMSD (Plus)	53
B	Beehive International	Topper (in DM78 mode)	55
B	CIE Terminals	CIT-101 and CIT-101e (VT52 mode)	59
B	CIE Terminals	CIT-161 (VT52 mode)	63
B	CIE Terminals	CIT-467 (VT52 mode)	67
B	CIE Terminals	CIT-500 (VT52 mode)	71
B	CIE Terminals	CIT-80 (VT52 mode)	75
B	Colorgraphic Communications Corp.	MVI-100 Model 813/819 ISC8001G mode	83
B	Cromemco, Inc.	C-10	89
B	CTI DATA Corporation	CTi 3078	91
B	Digital Equipment Corporation	VT52, VT55	97
B	Digital Microsystems	DMS-3/F, DMS-15, DMS-501	99
B	Digital Microsystems	DMS-5080, DMS-5086	101
B	Esprit Systems Inc.	6310	111
B	Esprit Systems Inc.	Esprit	113
B	Esprit Systems Inc.	Esprit II	115
B	Esprit Systems Inc.	Esprit III	117
B	Esprit Systems Inc.	Esprit III Color	119
B	Esprit Systems Inc.	Exec 10	121
B	Esprit Systems Inc.	Exec 10/102	123
B	Esprit Systems Inc.	Exec 10/25	127
B	Falco Data Products	Fame 78	131
B	Falco Data Products	TS-1	137
B	Falco Data Products	TS-42	141
B	FMG Corporation	FMG CP/M for TRS80 Model II	143
B	Franklin Computer Corp.	Ace Display	145
B	General Terminal Corporation	SW 10 (VT52 mode)	149
B	General Terminal Corporation	SW 80	151
B	Honeywell Information Systems	VIP 7201	161
B	Honeywell Information Systems	VIP 7301	163
B	IBM	3101	167
B	Intecolor Corporation	E8001G	173
B	Intecolor Corporation	E8001R	175
B	Interaction Systems Inc.	TT150	179
B	Kaypro Corporation	Kaypro 2'84, 4'84, 10 and Robie	187
B	Kaypro Corporation	KP 2'83, KP 4'83	189
B	Lear Siegler, Inc.	ADM 11	193
B	Lear Siegler, Inc.	ADM 12	195
B	Lear Siegler, Inc.	ADM 22	197
B	Lear Siegler, Inc.	ADM 24E	199
B	Lear Siegler, Inc.	ADM 3A	201
B	Lear Siegler, Inc.	ADM 5	203
B	Liberty Electronics	Freedom 100	205
B	Liberty Electronics	Freedom 110	207
B	Liberty Electronics	Freedom 200	209
B	Morrow Inc.	MDT 60	211
B	NCR Corp.	NCR 7910 (Model 1 mode)	215
B	Paradyne	7811-01 Async	219
B	Pickles & Trout	CP/M - TRS-80 Models II, 12, 16	221
B	Qume	QVT-102	225
B	Qume	QVT-108	227
B	Radio Shack	TRS-80 DT-1	229
B	RCA	APT VP3801/VP4801	231
B	Sanyo	CRX-1100	233
B	Sanyo	MBC-1100	235
B	Sanyo	MBC-1200	237
B	Sanyo	MBC-4000 (CP/M-86 O.S.)	239
B	Sony Corporation of America	SMC-70 (IBM 3101)	241
B	Soroc	Challenger Series	243
B	Televideo	910	263
B	Televideo	910 +	265
B	Televideo	914	267
B	Televideo	924	269
B	Televideo	925	271
B	Televideo	950	273
B	Televideo	Personal Terminal	277
B	Terminflex	HT/1000	279
B	Texas Instruments	931	281

INDEX BY FORM OF CURSOR ADDRESS (Continued)

Form	Manufacturer	Terminal	Page
B	Tymshare	Scanset 410, 415/HS, XL-HS	285
B	Visual Technology	V330 (DG D200 mode)	291
B	Visual Technology	V500 (LSI ADM3A mode)	293
B	Visual Technology	Visual 100 (VT52 mode)	297
B	Visual Technology	Visual 50/55 (Esprit mode)	301
B	Visual Technology	Visual 50/55 (VT52 mode)	303
B	Wyse Technology	WY-100	305
B	Wyse Technology	WY-300	307
B	Wyse Technology	WY-50	309
B	Zenith Data Systems	ZT-10	313
O	NCR Corp.	NCR 7910 (Model 4 mode)	217
V	Altos Computer Systems	Altos II Terminal	29
V	Ann Arbor Terminals	Ambassador	31
V	Ann Arbor Terminals	Genie	33
V	Ann Arbor Terminals	Genie + Plus	35
V	Ann Arbor Terminals	Guru (TM)	37
V	ANSI	ANSI	39
V	Beehive International	ATL 008	41
V	CIE Terminals	CIT-101 and CIT-101e (ANSI mode)	57
V	CIE Terminals	CIT-161 (ANSI mode)	61
V	CIE Terminals	CIT-467 (ANSI mode)	65
V	CIE Terminals	CIT-500 (ANSI mode)	69
V	CIE Terminals	CIT-80 (ANSI mode)	73
V	Cobar	Cobar 3100, Cobar 3132	77
V	Colorgraphic Communications Corp.	MVI-100 Model 100, 489, 119, 113	79
V	Colorgraphic Communications Corp.	MVI-100 Model 813/819 VT100 mode	81
V	Colorgraphic Communications Corp.	MVI-7 Models 7, 719	85
V	Corona Data Systems Inc.	Personal Computer	87
V	Digital Equipment Corporation	VT100, 101, 102, 131, 125	93
V	Digital Equipment Corporation	VT220, 240, 241	95
V	Direct Incorporated	825-(HP)	103
V	Direct Incorporated	828/1 (ANSI mode)	105
V	Direct Incorporated	828/1 (HP2622 mode)	107
V	Direct Incorporated	831	109
V	Esprit Systems Inc.	Exec 10/102 (ANSI mode)	125
V	Falco Data Products	Fame 100	129
V	Falco Data Products	Fame III	133
V	Falco Data Products	TS 2624-B	135
V	Falco Data Products	TS-100/132	139
V	General Terminal Corporation	SW 10 (ANSI mode)	147
V	GraphOn Corporation	GO-100	153
V	GraphOn Corporation	GO-140	155
V	Hewlett-Packard	HP 262X, 264X and HP 2382A	157
V	Hewlett-Packard	HP-150	159
V	Human Designed Systems, Inc.	Concept AVT Series	165
V	Intecolor Corporation	2405	169
V	Intecolor Corporation	2427	171
V	Intecolor Corporation	VHR19	177
V	Ithaca Intersystems, Inc.	Graphos I	181
V	Ithaca Intersystems, Inc.	Graphos II	183
V	Ithaca Intersystems, Inc.	Graphos III	185
V	Kimtron Corporation	KT-10	191
V	NCR Corp.	NCR 7910 (ANSI mode)	213
V	Prime Computer, Inc.	PST100	223
V	Tab Products	TAB 132/15	245
V	Tandberg Data, Inc.	TDV 2220	247
V	TEC Inc.	ET 80B	249
V	Tektronix	4105, 4107, 4109 (ANSI mode)	251
V	Teleray	Model 100	253
V	Teleray	Model 16	255
V	Teleray	Model 7	257
V	Teletype Corporation	5410	259
V	Teletype Corporation	5420	261
V	Televideo	970	275
V	Texas Instruments	Professional Computer	283
V	Vector Graphic, Inc.	Vector 4 & 4S & VSX	287
V	Visual Technology	V102	289
V	Visual Technology	Visual 100	295
V	Visual Technology	Visual 300 (VT100 mode)	299
V	Wyse Technology	WY-75	311
V	Zenith Data Systems	Z-19-HW	315
V	Zenith Data Systems	Z-29	317
V	Zenith Data Systems	Z-49	319

INDEX BY CURSOR KEYS

Up	Down	Right	Left	Manufacturer	Terminal	Page
				NCR Corp.	NCR 7910 (Model 4 mode)	217
				Sanyo	MBC-1200	237
				Franklin Computer Corp.	Ace Display	145
				Paradyne	7811-01 Async	219
01 4A 0D	01 4B 0D	01 4D 0D	01 4C 0D	Kaypro Corporation	Kaypro 2'84, 4'84, 10 and Robie	187
05	18	04	13	Falco Data Products	TS-42	141
0B	0A	0C	08	Kaypro Corporation	KP 2'83, KP 4'83	189
0B	0A	0C	08	Lear Siegler, Inc.	ADM 11	193
0B	0A	0C	08	Lear Siegler, Inc.	ADM 12	195
0B	0A	0C	08	Lear Siegler, Inc.	ADM 22	197
0B	0A	0C	08	Lear Siegler, Inc.	ADM 24E	199
0B	0A	0C	08	Lear Siegler, Inc.	ADM 3A	201
0B	0A	0C	08	Lear Siegler, Inc.	ADM 5	203
0B	0A	0C	08	Radio Shack	TRS-80 DT-1	229
0B	0A	0C	08	Soroc	Challenger Series	243
0B	0A	0C	08	Televideo	910	263
0B	0A	0C	08	Televideo	910 +	265
0B	0A	0C	08	Televideo	914	267
0B	0A	0C	08	Televideo	924	269
0B	0A	0C	08	Televideo	925	271
0B	0A	0C	08	Televideo	950	273
0B	0A	0C	08	Televideo	Personal Terminal	277
0B	0A	0C	08	Wyse Technology	WY-100	305
0B	0A	0C	08	Wyse Technology	WY-300	307
0B	0A	0C	08	Wyse Technology	WY-50	309
0B	16	0C	08	Esprit Systems Inc.	Esprit III	117
0B	16	0C	08	Esprit Systems Inc.	Esprit III Color	119
0B	16	0C	08	Interaction Systems Inc.	TT150	179
0B	16	0C	08	Liberty Electronics	Freedom 100	205
0B	16	0C	08	Liberty Electronics	Freedom 110	207
0B	16	0C	08	Liberty Electronics	Freedom 200	209
0B	16	0C	08	Qume	QVT-102	225
0B	16	0C	08	Qume	QVT-108	227
17	1A	18	19	Visual Technology	V330 (DG D200 mode)	291
17	1C	19	16	Sony Corporation of America	SMC-70 (IBM 3101)	241
1A	0A	06	08	CTI DATA Corporation	CTI 3078	91
1A	0A	06	08	Digital Microsystems	DMS-3/F, DMS-15, DMS-501	99
1A	0A	06	08	Digital Microsystems	DMS-5080, DMS-5086	101
1A	0A	06	15	NCR Corp.	NCR 7910 (Model 1 mode)	215
1B 0C	1B 0B	10	08	Esprit Systems Inc.	6310	111
1B 0C	1B 0B	10	08	Esprit Systems Inc.	Esprit	113
1B 0C	1B 0B	10	08	Esprit Systems Inc.	Esprit II	115
1B 0C	1B 0B	10	08	Esprit Systems Inc.	Exec 10	121
1B 0C	1B 0B	10	08	Esprit Systems Inc.	Exec 10/25	127
1B 41	1B 42	1B 43	1B 44	Beehive International	ATL-004	45
1B 41	1B 42	1B 43	1B 44	Beehive International	ATL-078	47
1B 41	1B 42	1B 43	1B 44	Beehive International	DMSB (Standard)	49
1B 41	1B 42	1B 43	1B 44	Beehive International	DMSB (Basic)	51
1B 41	1B 42	1B 43	1B 44	Beehive International	DMSD (Plus)	53
1B 41	1B 42	1B 43	1B 44	Beehive International	Topper (in DM78 mode)	55
1B 41	1B 42	1B 43	1B 44	CIE Terminals	CIT-101 and CIT-101e (VT52 mode)	59
1B 41	1B 42	1B 43	1B 44	CIE Terminals	CIT-161 (VT52 mode)	63
1B 41	1B 42	1B 43	1B 44	CIE Terminals	CIT-467 (VT52 mode)	67
1B 41	1B 42	1B 43	1B 44	CIE Terminals	CIT-500 (VT52 mode)	71
1B 41	1B 42	1B 43	1B 44	CIE Terminals	CIT-80 (VT52 mode)	75
1B 41	1B 42	1B 43	1B 44	Cromemco, Inc.	C-10	89
1B 41	1B 42	1B 43	1B 44	Digital Equipment Corporation	VT52, VT55	97
1B 41	1B 42	1B 43	1B 44	Direct Incorporated	825-(HP)	103
1B 41	1B 42	1B 43	1B 44	Direct Incorporated	828/1 (HP2622 mode)	107
1B 41	1B 42	1B 43	1B 44	Esprit Systems Inc.	Exec 10/102	123
1B 41	1B 42	1B 43	1B 44	Falco Data Products	Fame 78	131
1B 41	1B 42	1B 43	1B 44	Falco Data Products	TS 2624-B	135
1B 41	1B 42	1B 43	1B 44	General Terminal Corporation	SW 10 (VT52 mode)	149
1B 41	1B 42	1B 43	1B 44	General Terminal Corporation	SW 80	151
1B 41	1B 42	1B 43	1B 44	Hewlett-Packard	HP 262X, 264X and HP 2382A	157
1B 41	1B 42	1B 43	1B 44	Hewlett-Packard	HP-150	159
1B 41	1B 42	1B 43	1B 44	Honeywell Information Systems	VIP 7201	161
1B 41	1B 42	1B 43	1B 44	Honeywell Information Systems	VIP 7301	163
1B 41	1B 42	1B 43	1B 44	IBM	3101	167
1B 41	1B 42	1B 43	1B 44	RCA	APT VP3801/VP4801	231
1B 41	1B 42	1B 43	1B 44	Sanyo	CRX-1100	233
1B 41	1B 42	1B 43	1B 44	Sanyo	MBC-1100	235
1B 41	1B 42	1B 43	1B 44	Sanyo	MBC-4000 (CP/M-86 O.S.)	239

INDEX BY CURSOR KEYS (Continued)

Up	Down	Right	Left	Manufacturer	Terminal	Page
1B 41	1B 42	1B 43	1B 44	Termiflex	HT/1000	279
1B 41	1B 42	1B 43	1B 44	Tymshare	Scanset 410, 415/HS, XL-HS	285
1B 41	1B 42	1B 43	1B 44	Visual Technology	V500 (LSI ADM3A mode)	293
1B 41	1B 42	1B 43	1B 44	Visual Technology	Visual 100 (VT52 mode)	297
1B 41	1B 42	1B 43	1B 44	Visual Technology	Visual 50/55 (VT52 mode)	303
1B 41	1B 42	1B 43	1B 44	Zenith Data Systems	ZT-10	313
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Altos Computer Systems	Altos II Terminal	29
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Ann Arbor Terminals	Ambassador	31
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Ann Arbor Terminals	Genie	33
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Ann Arbor Terminals	Genie + Plus	35
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Ann Arbor Terminals	Guru (TM)	37
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	ANSI	ANSI	39
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Beehive International	ATL 008	41
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	CIE Terminals	CIT-101 and CIT-101e (ANSI mode)	57
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	CIE Terminals	CIT-161 (ANSI mode)	61
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	CIE Terminals	CIT-467 (ANSI mode)	65
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	CIE Terminals	CIT-500 (ANSI mode)	69
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	CIE Terminals	CIT-80 (ANSI mode)	73
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Cobar	Cobar 3100, Cobar 3132	77
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Colorgraphic Communications Corp.	MVI-100 Model 100, 489, 119, 113	79
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Colorgraphic Communications Corp.	MVI-100 Model 813/819 VT100 mode	81
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Colorgraphic Communications Corp.	MVI-7 Models 7, 719	85
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Corona Data Systems Inc.	Personal Computer	87
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Digital Equipment Corporation	VT100, 101, 102, 131, 125	93
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Digital Equipment Corporation	VT220, 240, 241	95
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Direct Incorporated	828/1 (ANSI mode)	105
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Direct Incorporated	831	109
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Esprit Systems Inc.	Exec 10/102 (ANSI mode)	125
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Falco Data Products	Fame 100	129
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Falco Data Products	Fame III	133
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Falco Data Products	TS-1	137
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Falco Data Products	TS-100/132	139
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	General Terminal Corporation	SW 10 (ANSI mode)	147
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	GraphOn Corporation	G0-100	153
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	GraphOn Corporation	G0-140	155
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Human Designed Systems, Inc.	Concept AVT Series	165
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Intecolor Corporation	2405	169
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Intecolor Corporation	2427	171
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Intecolor Corporation	VHR19	177
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Ithaca Intersystems, Inc.	Graphos I	181
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Ithaca Intersystems, Inc.	Graphos II	183
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Ithaca Intersystems, Inc.	Graphos III	185
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Kimtron Corporation	KT-10	191
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	NCR Corp.	NCR 7910 (ANSI mode)	213
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Prime Computer, Inc.	PST100	223
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Tab Products	TAB 132/15	245
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Tandberg Data, Inc.	TDV 2220	247
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	TEC Inc.	ET 80B	249
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Tektronix	4105, 4107, 4109 (ANSI mode)	251
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Teleray	Model 100	253
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Teleray	Model 16	255
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Teleray	Model 7	257
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Teletype Corporation	5410	259
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Teletype Corporation	5420	261
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Televideo	970	275
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Texas Instruments	931	281
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Texas Instruments	Professional Computer	283
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Visual Technology	V102	289
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Visual Technology	Visual 100	295
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Visual Technology	Visual 300 (VT100 mode)	299
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Wyse Technology	WY-75	311
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Zenith Data Systems	Z-19-HW	315
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Zenith Data Systems	Z-29	317
1B 5B 41	1B 5B 42	1B 5B 43	1B 5B 44	Zenith Data Systems	Z-49	319
1B 66	1B 69	1B 68	1B 67	Beehive International	ATL 083	43
1C	0A	19	1A	Intecolor Corporation	E8001G	173
1C	0A	19	1A	Intecolor Corporation	E8001R	175
1C	0A	1A	19	Colorgraphic Communications Corp.	MVI-100 Model 813/819 ISC8001G mode	83
1C 4A	1C 4B	1C 4D	1C 4C	Morrow Inc.	MDT 60	211
1E	1F	1D	1C	FMG Corporation	FMG CP/M for TRS80 Model II	143
1E	1F	1D	1C	Pickles & Trout	CP/M - TRS-80 Models II, 12, 16	221
7E 0C	7E 0B	7E 43	7E 44	Visual Technology	Visual 50/55 (Esprit mode)	301
8A	8B	8D	8C	Vector Graphic, Inc.	Vector 4 & 4S & VSX	287

A Programmer's Guide to Video Display Terminals is an indispensable guide for the programmer designing a software system which must be able to run on a wide variety of video display terminals and microcomputers.

In addition to a tutorial on VDT programming with helpful tips to avoid common pitfalls, this manual provides the programmer with code sequences necessary to control over 145 VDTs, including:

- Screen layout in rows and columns
- Row and column numbering scheme
- Cursor addressing (with examples)
- Erasures
- Video attributes
- Cursor control keys
- Character set
- Emulation
- Program function keys