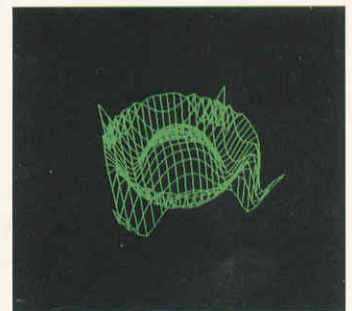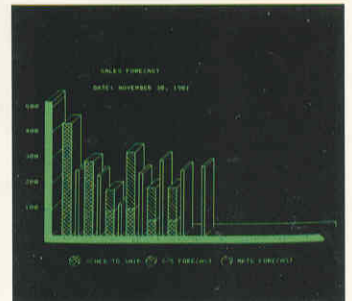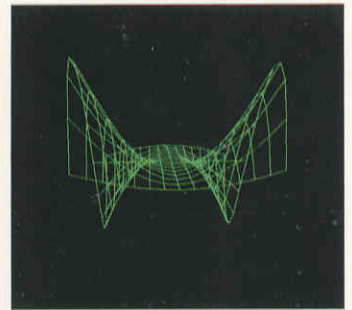# TAB 132/15-G GRAPHICS TERMINAL
Big Design Capability In A Small, Affordable Package

Graphics for industry, business, science and education.

Full Featured and Tektronix Compatible

The TAB 132/15-G Graphics Terminal gives you full featured graphics with Tektronix 4010* emulation and selected Tektronix 4027* graphics commands. All of this is in addition to the outstanding user oriented features of the TAB 132/15 interactive terminal, such as: 132 columns on a large 15 inch display screen with crisp, bright images for easy reading under any lighting conditions.

Outstanding Graphics Capability

To increase design productivity, the TAB 132/15-G produces graphics with multiple character size, dot-dashed lines, point plotting, vector and arc drawing, circle and polygon drawing, area fill and selective erase for easy update. A cross-hair cursor is provided for operator interaction with the terminal.

An enhanced text mode is included to give users a wide variety of text manipulating features such as full ASCII and APL, 90 degree text rotation, proportional spacing, italics and more.

Because the graphics functions of the TAB 132/15-G are local in origin, they are not dependant on the host computer and response is quicker.

Plus Advanced Alphanumeric Features

All of the operating features of the standard TAB 132/15 terminal are retained in the Graphics Terminal. They include: an unusually high resolution, 15-inch green phosphor screen displaying 27 lines of 132 crisp, easy-to-read characters per line; 7 x 11 dot matrix in a 9 x 14 cell; a comfortable and uncomplicated moveable keyboard; numerous user pleasing features and functions that allow operators to work quickly, accurately and with a great deal of flexibility.

*Trademark of Tektronix, Inc.

Compatible with the following software package

PLOT 10**
Tektronix*

DISSPLA & TELLAGRAF**
Integrated Software Systems Co.

IGP
TCS Company

DI 3000**
Precision Visuals

ILS**
Signal Technology, Inc.

TEMPLATE**
Megatek

PLOTPAK**
Digital Engineering, Inc.

**Trademarks of the companies listed

TAB 132/15-G GRAPHICS TERMINAL

FEATURES

Native Mode
When in the native mode, the TAB 132/15-G functions completely as a TAB 132/15 alphanumeric terminal with all of its smart terminal features and benefits.

Tektronix 4010 Emulation
With full Tektronix compatibility, the TAB 132/15-G emulates a Tektronix 4010 terminal with the following modes:
Text Mode
- 34 lines by 85 characters at 60 Hz
- 35 lines by 80 characters at 50 Hz
- Blinking underline alphanumeric cursor
- Full ASCII character set

Vector Mode
- Draws vectors automatically from vector endpoint coordinates
- Maximum vector drawing time—25msec

Point Modes
- Point plot mode: absolute addressing of points
- Incremental point plot mode: relative addressing 1 of 8 directions

Crosshair Cursor Mode
- Crosshair cursor controlled by 4 keyboard arrow keys

Enhanced Graphics
Through the use of selected Tektronix 4027[1] commands, the TAB 132/15-G offers the following enhanced graphics features:
Enhanced Text
- Graphics text characters are defined by height, width, line angle, fixed or proportional spacing
- Full ASCII and APL

Arc/Circle Drawing
- Operator can define arc line by specifying center point, radius and starting and ending angles

- Operator can define a circle by specifying center point and radius only

Polygon Drawing
- Operator can define a box or any polygon

Area Fill
- Automatically fills any closed shape

Line Formats
- Mode independent formats for solid, dotted, dashed line

Selective Erase
- Mode independent selection of light, dark or complement of data

Printer Interface
- Ability to interface with two of the industries leading graphics printers

Screen Resolution
- 512 Horizontal x 384 Vertical (60 Hz)
- 560 Horizontal x 420 Vertical (50 Hz)

SPECIFICATIONS

GENERAL—ALPHANUMERIC FEATURES
Screen 15″ diagonal, green phosphor CRT screen standard, white optional.
Screen Capacity 27 lines-24 data, 1 blank, 2 for status and prompting. 132 characters per line (80 characters user selectable)
Character Size 7 x 11 dot matrix in a 9 x 14 cell (60Hz refresh) or 9 x 16 cell (50Hz refresh); full descenders
Cursor Underline or reverse video block; blinking or not; cursor position by line and column number is displayed.
Character Attributes Bold, blink, underline, reverse video, lines double width or double height and double width; attributes useable in any combination and protection selected by attribute.
Vertical Scrolling Selectable scrolling region (split screen) with contrasting background for easy identification. Bi-directional scrolling in the 96 line mode. Three scrolling speeds: 8 lines/sec and 4 lines/sec smooth scroll or jump scroll.
Horizontal Scrolling For viewing columns 81 through 132 when in 80 character mode.
Memory 96 lines (can be set-up for 4 pages of 24 lines each.)
Keyboard Movable, low profile, typewriter configuration with separate numeric pad; keys color coded and tops sculptured; selectable keyclick, margin bell and typomatic; N-key rollover; 8 soft keys with over

100 operator functions including 22 programmable function keys; ASCII. Optional hard PF1-4 keys.
Editing Character insert/delete, line insert/delete. Forward and back tab. Cursor movement—up, down, left, right, home.
Erase From Beginning of Line (BOL) to cursor; from cursor to End of Line (EOL); to cursor from Beginning of Memory (BOM); from cursor to End of Memory (EOM); and erase All Memory.
Data Rate 50, 75, 110, 134.5, 150, 200, 300, 600, 1200, 1800, 2000, 2400, 3600, 4800, 9600, 19,200 baud.
Asynchronous Interface RS232C Standard; optional 20mA or 60mA current loop, active or passive, jumper selectable, for long distance direct attach communications.
Printer Option Optional serial printer port with operator selectable print methods; print entire page, print line after cursor leaves it, print line that cursor is on or print from communications line without displaying on screen. X-on/X-off or busy line monitored for flow control.
Transmission Half or full duplex. Fully buffered transmission. Send all or only unprotected data. Selectable space compression. Send character, line, partial page or whole page. Selectable data flow control of x-on/x-off. RS232C. ASCII. Selectable local echo. Programmable automatic answerback message.

Parity Mark, space, odd, even, none. Receive parity check selectable.
Stop Bits 1, 1½, 2.
Data Bits per Character 7 or 8.
Compatibility ANSI, DEC VT52,* VT100,* VT132.* Tektronix 4010 in full graphics model.

ELECTRICAL REQUIREMENTS
Input Voltage 90-132V RMS single phase; 180-264V RMS single phase; (Jumper selectable).
Input Power 90W.
Current 1.0 amps RMS max continuous at 115V; .5 amps RMS max continuous at 230V.

ENVIRONMENTAL
Temperature 50°–104°F (10°–40°C) operating; −40°–151°F (−40°–66°C) nonoperating.
Humidity 10%–90% (noncondensing) operating; 0%–95% (noncondensing) nonoperating.
Altitude 10,000 ft.—operating; 40,000 ft.— nonoperating.

DIMENSIONS
CRT Monitor 13.00″H x 19.80″W x 19.20″D (330.20mmH x 502.92mmW x 210.82mmD).
Keyboard 2.70″H x 19.06″W x 8.30″D (68.58mmH x 484.12mmW x 210.82mmD).

WEIGHT
CRT Monitor 30 lbs, (13.6kg).
Keyboard 4 lbs, (1.8 kg).

All specifications subject to change without prior notice.
* Trademark of the Digital Equipment Corporation

TAB
PRODUCTS CO

Electronic Office Products Division
1451 California Avenue, Palo Alto, California 94304. (415) 858-2500.
Telex: 348-390. TWX: 910-373 1285.

In Europe: **TAB Products Europa B. V.**
Ellermanstraat 5, 1099 BW Amsterdam, The Netherlands.
Phone: 020-681691. Telex: 15329.