



**HEWLETT
PACKARD**



17623A Graphics Tablet

Technical Data, February 1983



Turn Your Terminal into an Interactive Graphics Workstation

For fast, natural cursor movement, menu selection, and digitizing capability, add a 17623A graphics tablet to a 2627A color graphics terminal or a 2623A monochromatic graphics terminal. It's a cost-effective way to provide tablet interaction in an RS-232-C environment.

Business Professionals

You can use this low-cost graphics workstation to create high-quality graphics for presentations and reports on paper and transparency film — especially if you also add a 7470A plotter. Software is available on the HP 3000 for presentation text and figure design. The tablet simplifies the picture creation and editing functions.

Technical Professionals

You can use this cost-effective, fully supported workstation for design purposes, especially CAE. If you have an HP 1000 or one of the HP 9000 series computers with an RS-232-C/CCITT V.24 data communication interface and are already using GRAPHICS/1000-II or GRAPHICS/9000 software, you can adapt your programs to take advantage of the tablet's capabilities. If you develop your own software, remember that the tablet is especially valuable in menu selection applications.

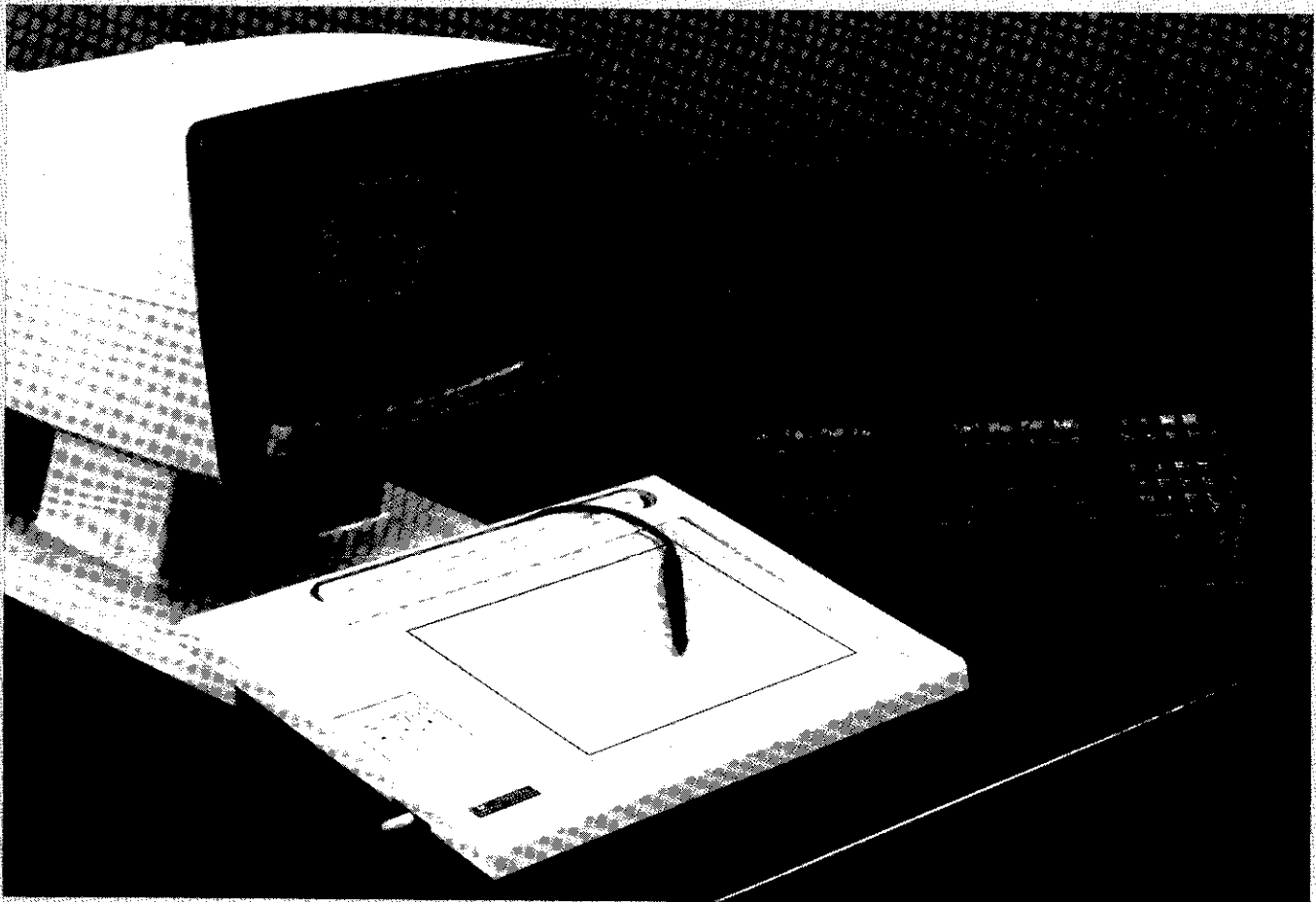
The tablet and terminal workstation can be used with many HP and non-HP computers in a variety of

applications, such as construction, part drawings, surveying, PC layout, finite element analysis, and numerical control.

FEATURES

Increased Interactivity

It is easier and faster to move the tablet's stylus to control the terminal's graphics cursor than it is to use keyboard "arrow" keys — reducing operator fatigue and increasing productivity. Because cursor control activities can be removed from the host computer, interaction with the terminal is maximized — again, increasing productivity.



High Resolution

You can digitize to the host computer at a resolution four times greater than that of the terminal's screen, which permits high-quality hardcopy output*. Or, you can use the screen's resolution if the speed of data transfer is important and moderate-quality output is acceptable.

Natural Operation

Moving the stylus on the tablet's surface is as natural as writing with pen and paper. The tablet is light and compact; you can hold it on your lap to reduce fatigue. If you prefer using the tablet on a table, a support folds out so you can tilt the tablet at a comfortable angle. If you are left-handed, you can push a button on the front panel to rotate the tablet's coordinate system and use the tablet upside down. The folding support and front-panel button labels are also reversible.



Flexible Digitizing

Several features make digitizing more flexible and adaptable to various applications.

Coordinate data can be sent to the computer in ASCII format for easier programming or binary format to reduce data transfer time.

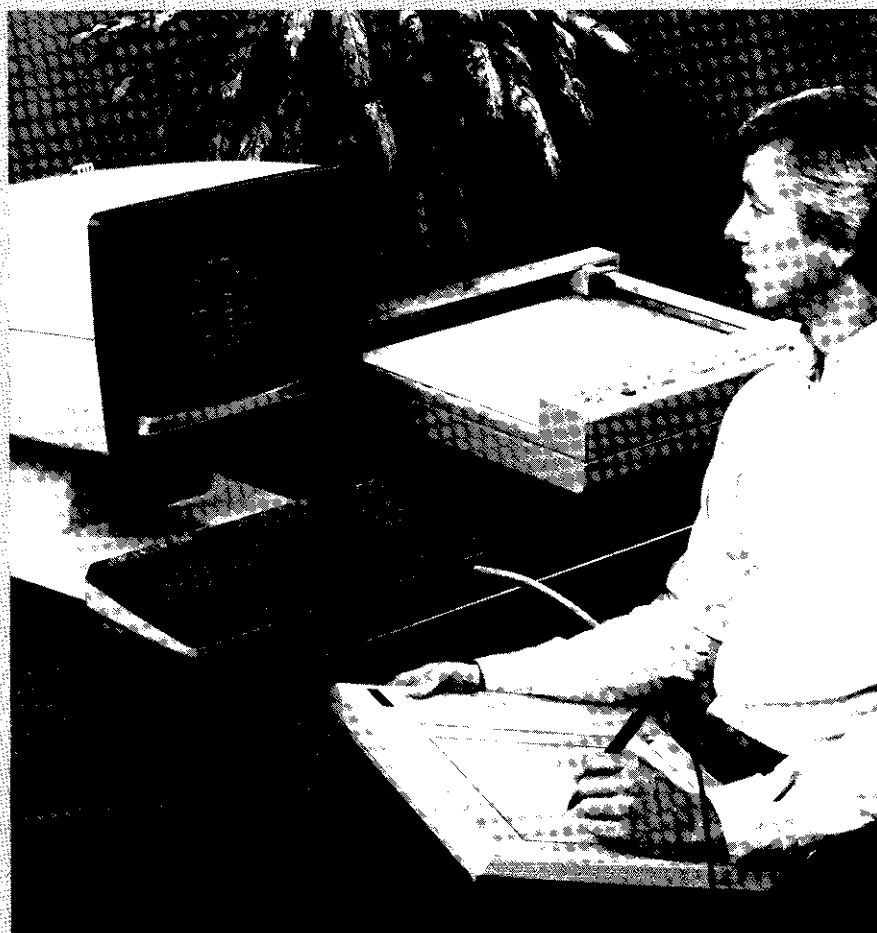
There is a choice of coordinate transfer modes. One coordinate can be sent for each press of the stylus; this feature is useful in menu selection and other applications where multiple

points would be ambiguous. Alternatively, a stream of data can be sent for freehand drawing and tracing.

There are three ways to start input, depending on the coordinate transfer mode selected: press the stylus once to generate one point, press the stylus and hold it down to generate points continuously, or start generating points with the first press of the stylus and stop with the second.

Remember, you save money when one workstation serves many purposes.

*Hewlett-Packard DGL software does not yet support the high-resolution capability of the 17623A. With DGL you can digitize to CRT resolution only.



Specifications

Active Digitizing Area: 295 × 217 mm (11.6 × 8.5 in.)

Resolution (Number of points within active digitizing area):

Fine — 2048 × 1560

Coarse — 512 × 390 (matches CRT)

Repeatability: ±1 resolution unit

Document Material: Single sheet, electrically nonconductive, homogenous, less than 0.5 mm thick

Cursor Tracking Rate (Local): 30 points/s

Coordinate Transfer Rate: Assumes asynchronous data transfer; depends on host computer activity and data communication rate, e.g.,

ASCII @ 2400 BAUD — up to 15 points/s

@ 9600 BAUD — up to 60 points/s

Binary @ 2400 BAUD — up to 34 points/s

@ 9600 BAUD — up to 60 points/s

Heavy system activity can severely degrade these rates.

Power Consumption: 5 watts maximum (supplied from the terminal)

Platen Technology: Electrostatic

Operating Environmental Conditions:

Temperature — 0° to 55°C

Relative humidity — 5% to 80% (below 40°C, noncondensing)

EMI — meets the requirements of VDE with 2627A and 2623A terminals on HP 3000 computer systems and HP 9000 series computers

Size:

Height — 38 mm (1.5 in.)

Length — 467 mm (18.4 in.)

Width — 367 mm (14.4 in.)

Weight:

Net — 2.87 kg (6.3 lbs) tablet only

0.76 kg (1.7 lbs) interface module only

3.62 kg (8.0 lbs) tablet and interface module

Shipping — Approximately 6.8 kg (15.0 lbs) tablet and interface module

17623A Configuration Guide

Computer	Terminal	Graphics Software
HP 1000	2627A (color) 2623A/P* (monochromatic)	GRAPHICS/1000-II DGL (92841A) GRAPHICS/1000-II AGP (92842A)
HP 3000	2627A (color) 2623A/P* (monochromatic)	HPDRAW (32108A) HP 3000 Business Graphics Package, which includes HPDRAW (32110A)
HP 9000 Series	2627A (color) 2623A/P* (monochromatic)	GRAPHICS/9000 DGL (97074A or 97084A) GRAPHICS/9000 AGP (97075A or 97085A)

*Certain 2623A terminals will require a firmware upgrade and those without printers will also require a power supply upgrade. Ask your HP sales representative for information about interfacing the 17623A to a 2623 terminal.

Ordering Information

Accessories Supplied

Operator's Manual

Package of Stylus Refills (2 Inkless, 3 Ink)

Overlay (1)

HP Part No.

17623-90001

09111-68701

4114-0962

Accessories Available

Package of Stylus Refills (2 Inkless, 3 Ink)

Overlay (1)

Service Manual

09111-68701

4114-0962

17623-90000

For more information, call your local HP Sales Office or nearest Regional Office: Eastern (301) 258-2000; Midwestern (312) 255-9800; Southern (404) 955-1500; Western (213) 877-1252; Canadian (416) 878-9430. Or Write Hewlett-Packard, 3000 Hanover Street, Palo Alto, CA 94304. In Europe: Hewlett-Packard S.A., 7, rue du Bois-du-Lan, P.O. Box, CH-1217 Meyrin 2, Geneva, Switzerland. In Japan: Yokogawa-Hewlett-Packard Ltd., 29-21 Takaido-Higashi 3-chome, Suginami-ku, Tokyo 168.