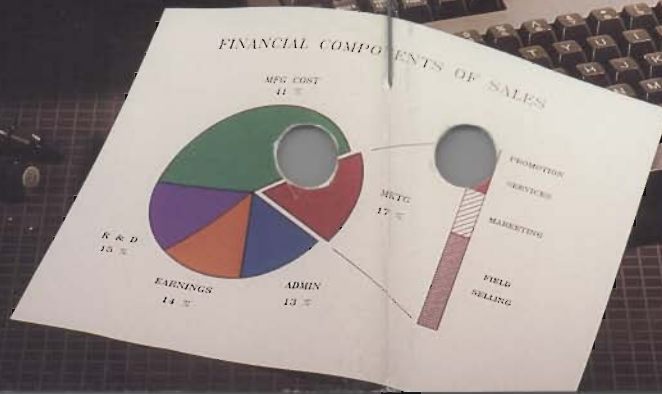
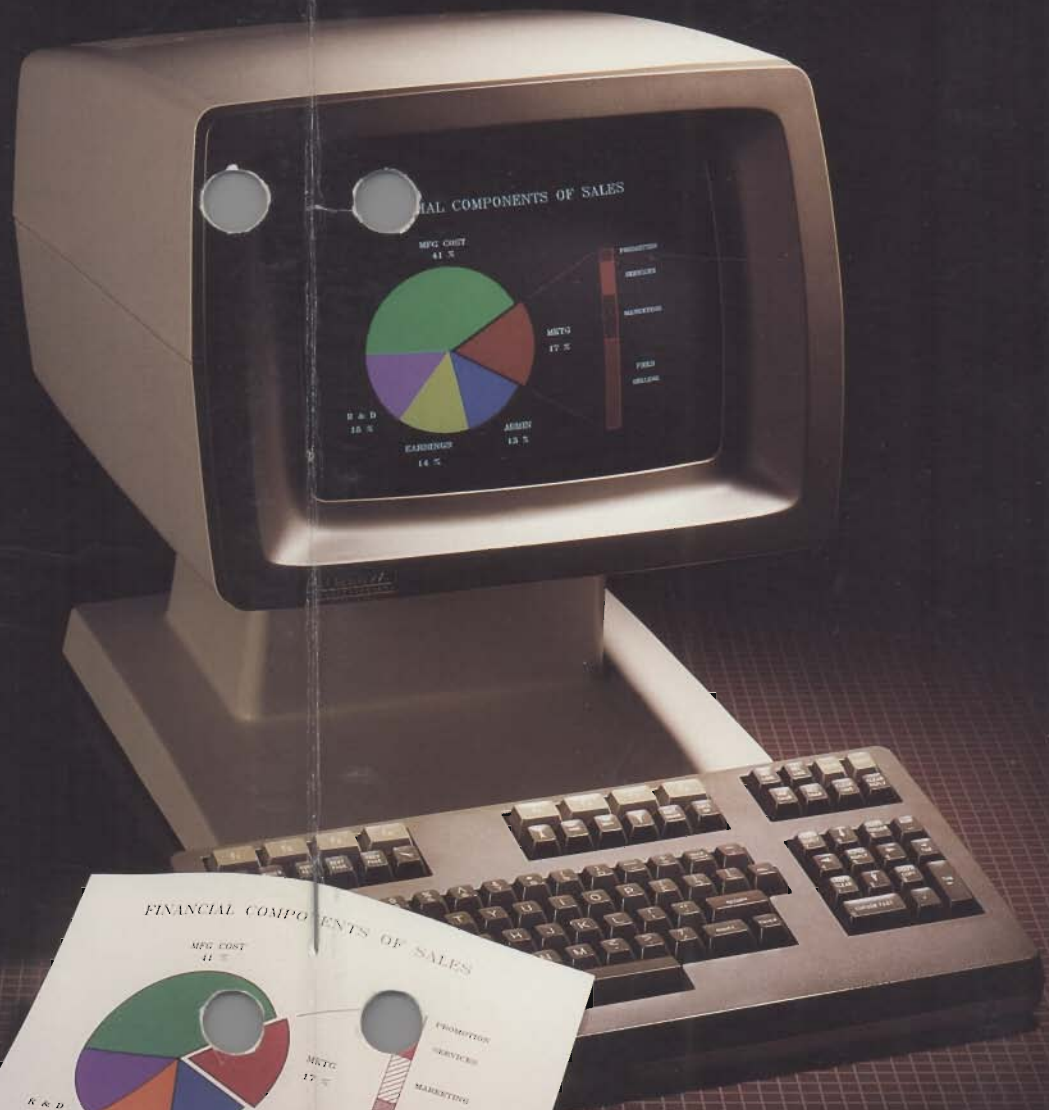


# A Guide to . . . HP Display Terminals





### Interactive Terminal

The 2621B combines simplicity, reliability and quality in a low-cost terminal designed for interactive applications. With a unique optional built-in printer, a simple press of a key will generate hard copy of what you see on the screen.

Its bright and easy-to-read display with a 9 x 15 character cell, two full pages of scrolling memory, 8 screen-labeled soft keys and editing functions give users a productive tool in interactive applications. There is even a modify mode that allows the user to edit and retransmit previous lines of information without having to retype the entire line.



## Matching the right terminal to your job

There's a lot more to choosing a computer system than just selecting the right computer. You also need to carefully match the display terminals to your job to produce the exact system solution you need.

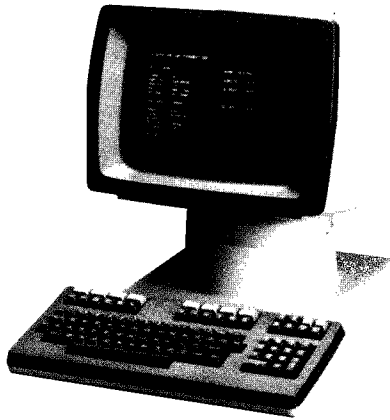
After all, to the people who spend the major part of their day in front of one, the terminal is the system. Naturally then, their terminal should provide a comfortable, friendly interface with the computer.

That's why at Hewlett-Packard, we've designed our terminals to work closely with you. Ergonomic features such as Tilt and Swivel Pedestals, Displays with high character definition, and functional keyboard layouts contribute to user comfort and productivity. These features make your terminal-intensive applications more productive, while delivering what you're looking for most - results!

- Alphanumeric Display Terminals
  - Graphic Display Terminals
  - Multi-Function Display Terminals
  - Industrial Display Terminals
  - Accessories
- 
- ANSI Compatibility
  - TEKTRONIX® Compatibility
  - IBM\* Compatibility

\* IBM is a trademark of International Business Machines Corporation  
 TEKTRONIX is a registered trademark of Tektronix, Inc.

2622A



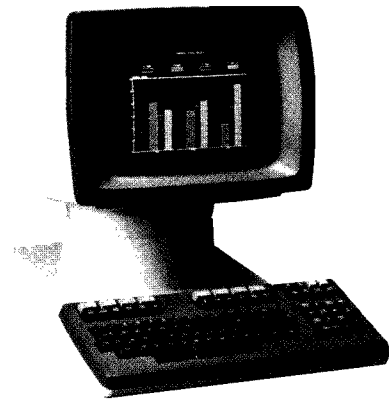
### Block Mode Terminal

With its high-resolution character cells, forms capability and full display enhancements, the 2622A is ideal for data entry and retrieval applications where you want to ensure efficiency and accuracy, as well as enjoy user "friendliness".

Its two pages of memory, format mode and optional line drawing set, can help you to design forms just like the ones your people are used to working with.

The 2622A has a typewriter-style keyboard with separate numeric keypad for quick and easy data entry, eight screen-labeled soft keys, and an optional built-in thermal printer for hard copy. Besides being compatible with HP computers and VPLUS/3000 software, the 2622A's ANSI option will allow it to communicate with ANSI "speaking" computers.

2623A



### Graphics Terminal

The 2623A offers a raster graphics display and optional built-in low-cost graphics printer for the business, technical and design oriented user. In addition to having the same alphanumeric features of HP's popular 2622A terminal, the 2623A offers fast vector graphics generation and independent graphics and alphanumeric memories, so you can communicate with your system without disturbing the graphics display.

Operating with a wide range of popular graphics software, the 2623A is compatible with both HP and major industry packages such as HP's DSG/3000, HP DRAW, HP EASYCHART and Graphics 1000/II, Precision Visual's DI-3000™ and GRAFMAKER™, ISSCO's DISSPLA™, TELL-A-GRAF™, and SAS's SAS/GRAPH™. Also, the 2623's TEKTRONIX® 4010 compatibility mode allows it to operate with TEKTRONIX's PLOT 10® software.

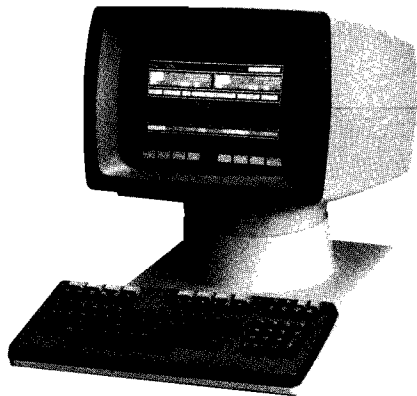
In addition, the 2623A offers an ANSI software compatibility option which allows the 2623A to be used with host computers and application software that support this popular protocol.

It's like getting three terminals in one, an HP compatible terminal, a TEKTRONIX® 4010 compatible terminal, and an ANSI compatible terminal.

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**For research and education purposes only.**

2624B



### Data Entry Terminal

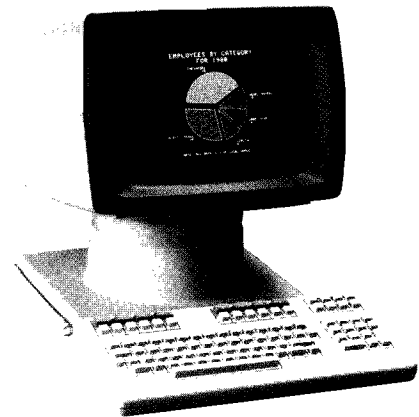
The advanced features of the 2624B make it an ideal terminal for data entry applications. Working closely with HP 3000's VPLUS/3000 software package, the 2624B's built-in data entry features help reduce system overhead and improve system performance.

The 2624B has local forms storage which allows up to 40 typical forms to be stored in the terminal, transferring them to the screen when needed. In addition, the terminal has up to four pages of memory standard and as an option can be expanded up to nine pages.

Also, there are 11 different local edit checks that provide data integrity and verification without the need for elaborate computer interaction. And with its modify-data tag feature, the 2624B can send to the computer just those fields that have been modified.

Furthermore, the 2624B offers multipoint or point-to-point data communications, and a serial printer port.

2625A



### Dual System Display Terminal

The 2625A brings HP and IBM compatibility together in a single terminal. With the data entry features of the HP 2624B Block Mode Terminal on port 1, and IBM 3276 Display Station features on port 2, the 2625A offers convenience and cost savings to multiple system users.

Both ports remain active at all times, allowing tasks to run concurrently on both hosts with no loss of data. The 2625A also connects to non-HP systems supporting ASCII asynchronous point-to-point data communications in character mode.

Option 523 adds HP 2623A graphics features enhanced to provide polygonal area fill, rubberband line, and TEKTRONIX® 4014 compatibility. The graphics option allows the 2625A to run HP and other major industry software packages (see the 2623A product summary).

All the text editing features of the HP 2628A Word Processing Terminal can be added to the 2625A. Option 528 allows the 2625A to operate with HPWORD software on an HP 3000 system.

The 2625A also offers 19.2 kbps high-performance datacomm, smooth vertical scrolling, forms/format mode, 11 national character sets, and configuration flexibility that allows you to daisy-chain up to 32 terminals for both local and remote operations.

With IBM 3276 emulation, HP 2622A data entry, HP 2623A, TEKTRONIX® 4014 graphics, and HP 2628A word processing, the 2625A is actually five terminals in one.

2626A



### Multi-Window Terminal

The versatile 2626A terminal lets you divide the screen into as many as four separate "windows", each attached to a different workspace in the terminal's memory. The workspaces can be connected to the two data communication ports available on the 2626A. These features allow you to run multiple applications concurrently on the same computer system or two different computer systems. For example, you can check a program listing in one window while accessing a file in another, or fill out a form in one window while the computer is executing a program in the other.

Other programmer pleasing features include horizontal scrolling of up to 160 columns, 132 column printout on all the optional built-in printers, and an interactive forms design facility which makes it easy to design forms.

2627A



### Color Graphics Terminal

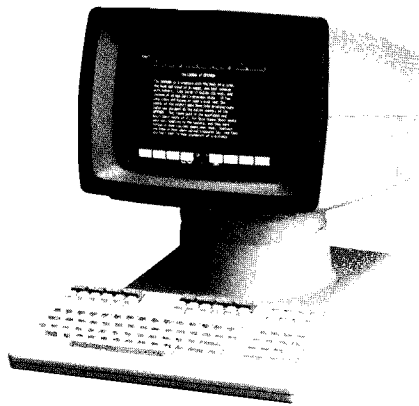
The 2627A combines a high quality color raster display with the best vector graphics in a compact package. It's ideally suited to both business and technical display graphic applications where the addition of color enhances the comprehension of relationships and trends.

Eight basic colors are provided by the 2627A, plus hundreds of additional user-defined ones including colors that match HP plotter pens. With vector graphics and local polygonal area filling, it's easy to create precise shapes, symbols and typesets quickly.

The 2627A not only provides color graphics, but also provides color alphanumerics. Up to eight color pairs (foreground/background) can be used on a per character basis to differentiate lines of text and identify critical fields. In addition, a full set of alphanumeric features are available with the 2627A to make it suitable for a wide range of non-graphic applications.

Like the HP 2623A Graphics Terminal, the 2627A is compatible with HP and major industry graphics software packages. For a list of these packages, see the 2623A product summary in this guide. Also, the 2627A offers TEKTRONIX® 4010 compatibility mode allowing it to be used with monochromatic PLOT 10® software.

In addition, the 2627A offers an ANSI software compatibility option which allows the TEKTRONIX® 4010 compatibility mode to operate in either HP or ANSI mode.



### Word Processing Terminal

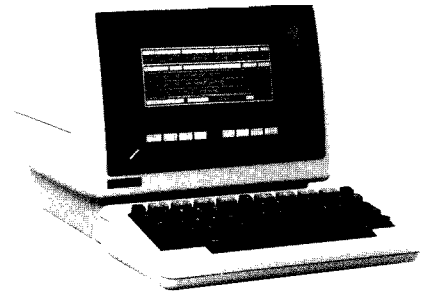
The 2628A combines HPWORD word processing, graphics, and data entry capability in one terminal.

For HP 3000 system users with both word processing and data processing requirements, the 2628A is ideal. As a word processing terminal designed for use with HPWORD (Hewlett-Packard's word processing software for HP 3000 computer systems), the HP 2628A allows you to create, edit, and store documents. Keyboard overlays provide a full word processing keyboard, including syntactic keys (character, word, line, sentence, phrase and paragraph) for cursor positioning and editing functions such as delete, move and copy. Letter quality copies of the documents can be printed by an optional HP daisywheel printer attached to the terminal.

Option 523 provides all the graphics capabilities of the popular HP 2623A Graphics Terminal, with enhanced features that include polygonal area fill, rubberband line, and TEKTRONIX® 4014 mode. Like the 2623A, the 2628A is compatible with HP and other major industry software packages (listed in this guide under the 2623A product summary). TEKTRONIX® 4014 compatibility allows the terminal to use PLOT 10® software as well.

When the 2628A is not being used as a word processing terminal on an HP 3000, it can perform all the data entry functions of the HP 2622A Block Mode Terminal. The 2628A's six pages of alphanumeric memory make it an ideal terminal for programmers, and VPLUS/3000 support allows HP block mode screen-oriented applications to be run.

In addition, the HP 2628A offers high-performance 19.2 kbps datacomm, smooth vertical scrolling, forms/format mode, optional integral thermal printer, plus 11 national character sets.



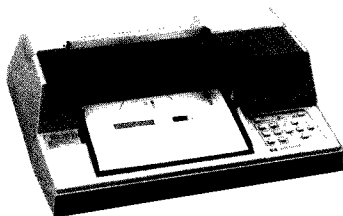
### Office Display Terminal

Excellent for office applications like electronic mail, the compact 2382A is well suited for the desk top since it takes less than a cubic foot of space. The 2382A is really a full-capability terminal - with "big terminal" features like screen-labeled soft keys, two pages of memory, block mode and local editing. The detached typewriter-style keyboard has a coiled cord that won't interfere with the desktop work area and the keys have a sculptured profile and velvet finish for a friendlier feel. With its ANSI option, the 2382A works with ANSI compatible computers in addition to HP computer systems.

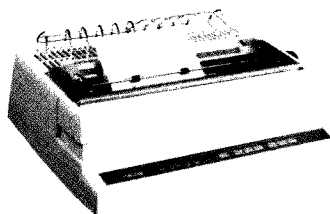
### Terminal Accessories

A full line of accessories are available for your terminal from Hewlett-Packard. For details, contact your local HP representative.

### Multicolor Graphics Plotters



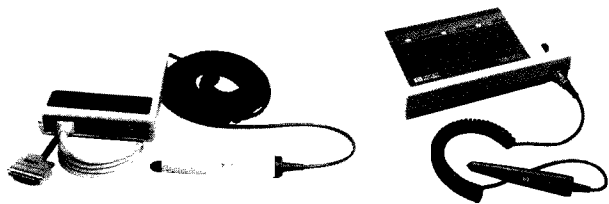
### Printers



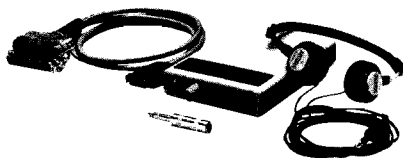
### Graphics Tablet



### Bar Code Readers



### Voice Output Module



Hewlett-Packard recognizes the special support needs that exist in your company.

With over 170 service and support facilities throughout the world, HP can meet these needs. Hewlett-Packard places the same emphasis on long-term, responsive customer support as it does on superior design and manufacturing of terminals and computer products.

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## Features \*

	Alphanumeric			Graphics			Multi-Functional			
Display	2382A Office Display Terminal	2621B Interactive Terminal	2622A Block Mode Terminal	2624B Data Entry Terminal	2625A Multi-Window Terminal	2623A Graphics Terminal	2627A Color Graphics Terminal	2625A Dual System Display Terminal	2628A Word Processing Terminal	180 Personal Computer
Size	9"	12"	12"	12"	12"	12"	12"	12"	12"	9"
Format:	80	80	80	80	80-160	80	80	80	80	80
Columns	24	24	24	24	24	24	24	24	24	24
Lines	25th, 26th	25th	25th, 26th	25th, 26th	25th, 26th	25th, 26th	25th, 26th	25th, 26th	25th, 26th	25th, 26th
Softkeys/Labeling	No	No	No	No	No	No	No	27th	27th	27th
Status Line	9 x 15	9 x 15	9 x 15	9 x 15	9 x 15	9 x 15	9 x 15	9 x 14	9 x 14	9 x 14
Character Cell	UL, IV, B, HB	UL or IV U.S.A. only	UL, IV, B, HB	UL, IV, B, HB, SV	UL, IV, B, SV	UL, IV, B, HB	UL, IV, B, HB <sub>2</sub>	UL, IV, B, HB, SV	UL, IV, B, HB, SV	UL, IV, B, HB, SV
Video Attributes ①	W	W, G, A	W, G, A	W, G, A	W, G, A	W, G, A	W, G, A	W, G, A	W, G, A	G
Phosphor ②	—	—	—	—	—	—	—	—	—	—
Graphics Resolution	2 pages	2 pages	2 pages	2-4 pages std up to 9 opt.	119 lines 80 columns	512 x 390 2 pages	512 x 390 2 pages	512 x 390 up to 6 pages	512 x 390 up to 6 pages	512 x 390 2 pages
Memory	P, UNP	None	P, UNP	P, UNP, T.O. MDT	P, UNP, T.O.	P, UNP	P, UNP	P, UNP, T.O. MDT	P, UNP, T.O. MDT	P, UNP, T.O. MDT
Field Attributes ③	None	None	None	11 checks	3 checks	None	None	3 checks	3 checks	3 checks
Data Edit Checks	None	None	None	11 checks	3 checks	None	None	3 checks	3 checks	3 checks
Keyboard	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Printer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Writer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Number Pad	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Cursor Keys ④	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Editing Keys ④	IC, DC, IL, DL	ID, DC, IL, DL	IC, DC, IL, DL	IC, DC, IL, DL	IC, DC, IL, DL	IC, DC, IL, DL	IC, DC, IL, DL	IC, DC, IL, DL	IC, DC, IL, DL	IC, DC, IL, DL
Screen Labeled Softkeys	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Keyboard Overlays	No	No	No	No	No	No	No	No	No	No
Data Communications										
Mode:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Character Line	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Block	110-9,600 baud	110-9,600 baud	110-9,600 baud	110-9,600 baud	110-9,600 baud	110-9,600 baud	110-9,600 baud	110-19,200 baud	110-19,200 baud	110-19,200 baud
Speed ⑤	Sid	Sid	Sid	Sid	Sid	Sid	Sid	Sid	Sid	Sid
Interface:	No	No	No	No	No	No	No	Opt	Opt	Opt
RS232	No	No	No	Opt	Opt	Opt	Opt	Opt	Opt	Opt
RS422	No	No	No	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Current Loop	No	No	No	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Factory Data Link	No	No	No	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Multiport	No	No	No	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Sync Async	No	No	No	Opt	Opt	Opt	Opt	Opt	Opt	Opt
RGB Video	No	No	No	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Protocol ENQ/ ACK, XON/OFF	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Other Capabilities										
ANSI Compatible	Yes	No	Yes	No	No	Yes	Yes	No	No	No
IBM Compatible	No	No	No	No	No	No	No	3276, BSC	No	No
Tektronix Compat.	No	No	No	No	No	4010	4010	4014	4014	4014
HP, WORD Support	No	No	No	No	No	No	No	Opt	Sid	No
Tablet Input	No	No	No	No	No	Yes	Yes	No	No	No
Character Sets										
Line Drawing	Opt	No	Opt	Sid	Sid	Opt	Sid	Sid	Sid	Sid
Math/Large	No	No	No	Opt	Opt	No	No	Math Only	Math Only	Math Only
National Languages	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Printer	No	Opt	Opt	Opt	Opt	Opt	No	Opt	Opt	Opt
Printer Ports:										
RS232	No	No	Opt	Sid	Sid	Sid	Sid	Sid	Sid	Sid
HP11B	No	No	No	No	No	No	No	Opt	Opt	Sid

\* Features are subject to change without notice. For further details refer to respective data sheet.

UL = Underline      IV = Inverse Video      B = Blinking      HB = Halftone      HB<sub>2</sub> = Halftone Maps to Color Pair      SV = Security Video      W = White      G = Green      A = Amber

P = Protected      UNP = Unprotected      T.O = Transmitt Only      MDT = Modified Data Tag      IC = Insert Character      DC = Delete Character      IL = Insert Line      DL = Delete Line

① Above 4800 may require handshaking.      ② When using port 1 as a printer port and not to another system.      ③ 3278 available March 1984