



HEWLETT
PACKARD

Office Display Terminal

Model 2382A



Hewlett-Packard's new HP 2382A Office Display Terminal emphasizes human engineering, small size and aesthetic styling for a product that is both easy to use and attractive in any office setting. The 2382A is especially attractive to "casual" computer users who need a personal data inquiry or information retrieval display terminal.

The HP 2382A operates in both conversational and block/forms mode and is software compatible with the HP 2622A.

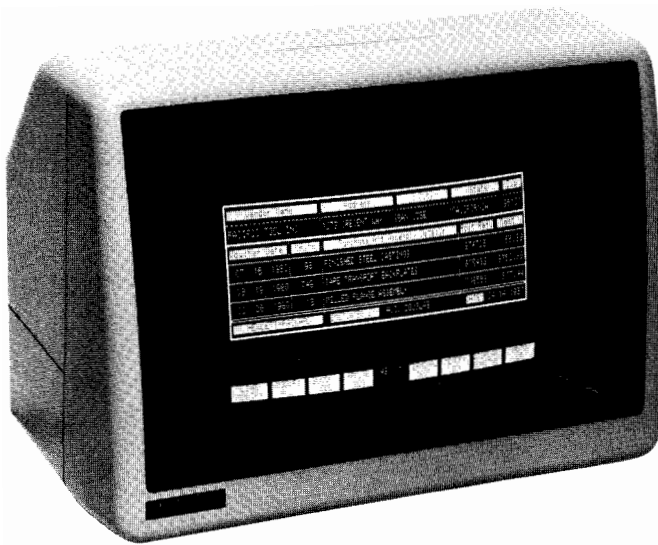
Designed with the User in Mind

Increasing user productivity is important in any computer application. Human engineered computer terminals can play a vital part in reaching this goal. The HP 2382A's human engineered design makes computer sessions easier and more productive.

Well suited for the office desk top, the HP 2382A occupies a minimum of space in the user's work area. Consuming less than a cubic foot of space, it gives office workers access to their own personal display terminal. In fact, the

entire 22-pound HP 2382A terminal can be easily repositioned to fit the user's personal needs.

The HP 2382A blends the powerful capabilities and features typical of Hewlett-Packard display terminals with simplicity and reduced size. This combination creates a terminal useful to both novice and experienced computer users.



Enhanced Display

The HP 2382A displays 1,920 characters in a 24 line by 80 column format on a 9 inch diagonal high resolution display. The full, 128 ASCII character set is easily readable because of the high density 9 x 15 dot character cells and half dot shifting used to create crisp, clear characters.

The HP 2382A has 4 display enhancements that help users distinguish between different types of data or highlight important information. These enhancements, inverse video, half bright, underline and blinking, can be used individually or in any combination.

To allow the user to look at earlier display information, the HP 2382A has 2 full pages (48 lines) of continuous scrolling memory. Any 24 line section of this 48 line memory can be viewed by simply using the roll up and roll down keys.

The display surface is etched and the viewing angle has been carefully chosen to reduce glare from overhead lighting. This, combined with the small size and light weight of the HP 2382A, makes the unit easy to position for optimal viewing.

User accessible focus and brightness controls are an added "human" touch allowing the user to customize the display to suit his personal needs.

Forms Mode

The HP 2382A can transmit data character-by-character as a conversational mode terminal or can transmit a "block" of data at a time. In block mode the user can review and edit a block of text or data locally, using the pre-programmed screen-labeled edit keys. After editing is complete, the entire block of text can be transmitted to the computer by simply pressing the enter key. The combination of block mode and local editing greatly reduce computer session time by simplifying the user's job and reducing computer overhead.

Screens that resemble familiar office forms can be designed and displayed on the HP 2382A using the 4 display enhancements and optional 64 character line drawing set. By adding protected and unprotected display fields to a form and enabling forms mode, data is entered only into the field where it belongs. In addition, only data in unprotected fields is transmitted to the computer. Thus, forms mode eliminates the need to redraw a form after each data transaction and decreases data communications overhead. Through improved data accuracy and increased data throughput forms mode enhances productivity.

The forms mode capability of the HP 2382A is compatible with that of the popular HP 2622A and HP 2640B display terminals and can be used with the HP VPLUS/3000 data entry and forms management software package.



Comfortable Keyboard

The HP 2382A detached keyboard can be moved to a position the user finds more comfortable at the moment. The low profile keyboard connects to the display with a coiled cord that stretches only as far as needed, so it won't interfere with the user's workspace.

Keyboard "feel" is important to users and nothing has been sacrificed with the HP 2382A keyboard. The keyboard is full ASCII with the familiar typewriter key layout. All 68 keys on the keyboard have a typewriter-like sculptured profile for a better feel. "Deep-dish" home keys (F and J) make touch typing easy. For increased legibility and understanding, the nomenclature on the keytops uses the Hewlett-Packard developed, Fabradon typeface. Even the keytop surface has a textured finish to reduce overhead-lighting glare and give a friendlier feel.

National keyboards and character sets are optionally available in six languages: Swedish/Finnish, Norwegian/Danish, French, German, United Kingdom and Spanish. These options support the International Standards Organization (ISO) standard for character substitution.

Specifications

GENERAL

Screen Size:	114mm H × 162mm W (4.5" H × 6.4" W); diagonal 198mm (7.8")
Screen Capacity:	24 lines × 80 columns (1920 characters) 25th and 26th for labeling of softkeys.
Character Generation:	7 × 11 enhanced dot matrix with ½ dot shifting; 9 × 15 dot character cell; non-interlaced raster scan.
Character Size:	3.2mm H × 1.6mm W (.126" H × .063" W)
Character Set:	Full 128 ASCII character set (upper/lower case, 32 displayable control codes)
Cursor:	Blinking-underline.
Display Enhancements:	Inverse video, half bright, underline, blinking (all combinations).
Refresh Rate:	60 Hz (50 Hz optional)
Tube Phosphor:	High Contrast P4
Implosion Protection:	Tension band.
Memory:	2 pages of display memory with or without display enhancements.
Keyboard:	Full ASCII, 68 key keyboard; eight screen labeled softkeys; cursor control keys; auto-repeat; N-key roll-over; detached with .45m (1.6') coiled cable, stretches to 1.5m (5')

DATA COMMUNICATIONS

Data Rate:	110, 134.5, 150, 300, 600, 1200, 1800, 2400, 4800, 9600 baud. Operation with control codes, escape sequences or baud rates above 4800 may require CPU supplied delays or handshakes.
Communications Interface:	EIA RS232C (CCITT V.24); fully compatible with Bell 103A, 212A modems. Hardware, XON/XOFF, ENQ/ACK and HP DC1/DC2 handshaking available.
Transmission Modes:	Full-duplex (echoplex or local echo), asynchronous.
Operating Modes:	On-line; off-line; character, line modify, line and block.
Parity:	Selectable; even, odd, none, zero, one

POWER REQUIREMENTS

Input Voltage:	HP 2382A 120V (+5%, - 10%) at 60 Hz (±0.2%) -013 240V (+5%, - 10%) at 50 Hz (±0.2%) -014 100V (+5%, - 10%) at 60 Hz (±0.2%) -015 220V (+5%, - 10%) at 50 Hz (±0.2%) -016 100V (+5%, - 10%) at 50 Hz (±0.2%)
Power Consumption:	80W

ENVIRONMENTAL CONDITIONS

Temperature, Free Space Ambient:	Non-Operating: -40 to + 60°C (-40 to + 140°F) Operating: 0 to + 55°C (+32 to + 131°F)
Humidity:	5 to 95% (non-condensing)
Altitude:	Non-Operating: Sea level to 15300 meters (50,000 feet) Operating: Sea level to 4600 meters (15,000 feet)
Vibration and Shock:*	Vibration: 0.38 mm (0.015") pp, 5 to 55 Hz, 3 axis Shock: 30 g, 11 ms, 1/2 sine *Type tested to qualify for normal shipping and handling in original shipping container.

PRODUCT SAFETY

Product Meets:	— U.L. requirements for: EDP equipment, office appliances, teaching equipment — CSA requirements for: EDP equipment — IEC 380 Self-Certification — Approvals Pending: VDE 0730, FEI, SEV
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PHYSICAL SPECIFICATIONS

Display Monitor Weight:	8.6 kg (19 pounds)
Keyboard Weight:	1.4 kg (3 pounds)
Display Monitor Dimensions:	287mm (rear: 203mm) H × 305 W × 305mm D (11.3''(rear: 8'')H × 12''W × 12''D)
Keyboard Dimensions:	36mm (rear: 61mm) H × 300mm W × 180mm D (1.4''(rear: 2.4'')H × 11.8''W × 7.1''D)

PRODUCT SUPPORT

Hardware Supplied:	HP 2382A Office Display Terminal (with power cord)
Documentation Supplied:	HP 2382A User's Manual (02382-90001) HP 2382A Reference Manual (02382-90002)
Documentation Available:	HP 2382A Service Manual (02382-90003)
HP Systems Support:	Refer to appropriate HP system data sheet for use and support of the HP 2382A on these systems. When this product is used in a customer-assembled system, the overall operational responsibility of the system rests with the customer.
Warranty:	The HP 2382A is warranted against defects in materials and workmanship. Contact local HP Sales Office for terms and conditions.
Maintenance:	HP maintenance agreements are available for HP 2382A after the warranty period. Contact local HP Sales Office for terms and conditions.

Ordering Information

Product	Option	Description	Price
HP 2382A		Office Display Terminal. 9 inch display; block/forms mode; 4 display enhancements; 2 pages of display memory; 8 screen labeled softkeys; detached, typewriter style keyboard.	
	-001	Swedish/Finnish character set and keyboard*	
	-002	Norwegian/Danish character set and keyboard*	
	-003	French character set and keyboard*	
	-004	German character set and keyboard*	
	-005	United Kingdom character set and keyboard*	
	-006	Spanish character set and keyboard*	
	-013	240V, 50 Hz operation	
	-014	100V, 60 Hz operation	
	-015	220V, 50 Hz operation	
	-016	100V, 50 Hz operation	
	-202	Line Drawing Character Set (Do not order with options 001-006)	

*Includes option 202

Accessories	Option	Description	Price
13242M	—	European Modem Cable — Male, 5 meters	
13242N*	—	US Modem Cable — Male, 5 meters	
13242Y	—	EMP protect cable — Male, 5 meters	
02620-60062	—	Data communication interface loopback test connector.	

*used in most HP 1000 and HP 3000 configurations

Easy to Use

The HP 2382A's human engineered, easy to use features make computer sessions easier for both the new and everyday user.

Eight softkeys can be labeled on the display with up to 16 characters in the 25th and 26th display row. This capability offers a new level of operator/application interfacing by allowing an application program to re-define and re-label these screen-labeled softkeys as required. With the screen labels there is never any confusion as to the function performed by the keys.

These softkeys are also pre-programmed to enable the user to access ease of use features including text editing, tab and margin control, display enhancement definition and terminal configuration.

The local editing feature can be used in either block/forms mode or modify mode. During conversational mode operation, the user can use modify mode to edit and transmit a selected line from the terminal's memory. Insert and delete character, insert and delete line, clear line and clear display are features included in the editing capability. Modify mode combined with local editing can reduce the number of key-strokes needed and speed computer session time.

Cursor control and display roll up and roll down keys give the user added control over his application. The HP 2382A even has a cursor column-and-row indicator (in the 25th line) to speed cursor positioning on the display. This is particularly useful in text editing applications for setting tabs and margins, and aligning columns.

Easy to Install

The HP 2382A is designed to be set up and made operational by the user. The soft configuration feature allows the user to set data communication and terminal configuration by simply filling in display menus using the screen-labeled softkeys. Power-on default data communications and terminal configuration parameters are set using 24 switches located on the back of the terminal.

The HP 2382A is designed to work with Hewlett-Packard computers and most other computers supporting full duplex, asynchronous, ASCII communications via EIA RS232-C (CCITT V.24).

Flexible data communications handshaking using hardware lines or control characters allows interfacing to a wide range of computers. The HP 2382A responds to clear-to-send (hardware), ENQ/ACK, HP DC1/DC2 and XON/XOFF handshakes.

The HP 2382A is Bell 103A/212A modem compatible.

Dependability and Serviceability

The HP 2382A maintains the same high standard of quality, dependability and safety that is built into every Hewlett-Packard product.

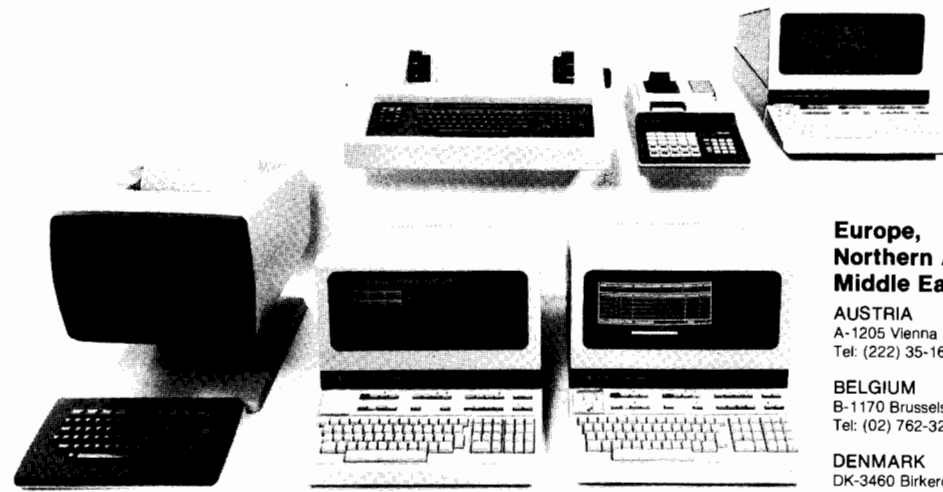
The self-test feature of the HP 2382A provides the user with immediate verification of proper terminal operation. In the event of a failure the modular design of the HP 2382A makes repair fast, minimizing terminal downtime.

The HP 2382A is backed worldwide by more than 180 Hewlett-Packard service centers in 39 countries. Your nearest HP Sales Office can fill you in about HP 2382A service contracts.



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