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.
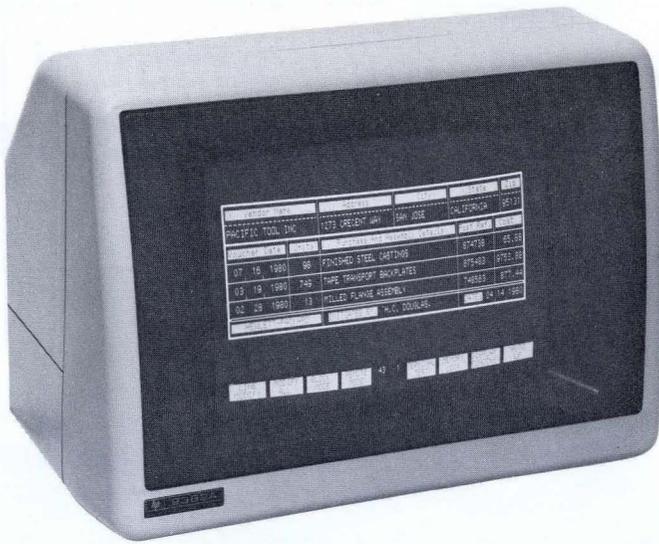
Designed with the User in Mind

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.

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.

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 9×15 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.

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, excape 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

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.	$1700
	-001	Swedish/Finnish character set and keyboard*	$ 80
	-002	Norwegian/Danish character set and keyboard*	$ 80
	-003	French character set and keyboard*	$ 80
	-004	German character set and keyboard*	$ 80
	-005	United Kingdom character set and keyboard*	$ 80
	-006	Spanish character set and keyboard*	$ 80
	-013	240V, 50 Hz operation	N/C
	-014	100V, 60 Hz operation	N/C
	-015	220V, 50 Hz operation	N/C
	-016	100V, 50 Hz operation	N/C
	-202	Line Drawing Character Set (Do not order with options 001-006)	$ 80

*Includes option 202

Accessories	Option	Description	Price
13242M	—	European Modem Cable — Male, 5 meters	$79
13242N*	—	US Modem Cable — Male, 5 meters	$79
13242Y	—	EMP protect cable — Male, 5 meters	$74
02620-60062	—	Data communication interface loopback test connector.	$22

*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 diplay are features included in the editing capability. Modify mode combined with local editing can reduce the number of keystrokes 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.
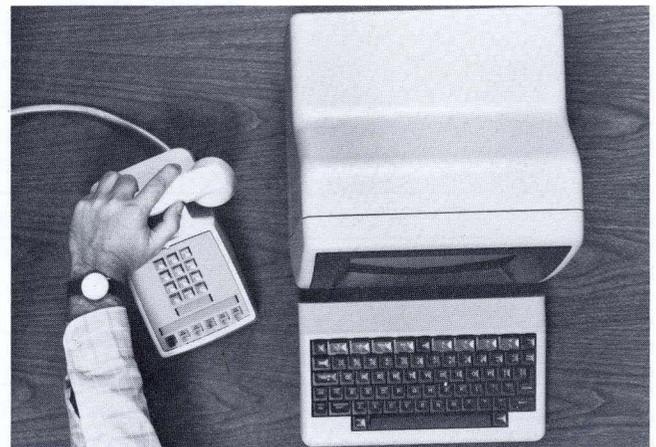
The HP 2382A is Bell 103A/212A modem compatible.

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.

Contact Hewlett-Packard
We'll introduce you to our whole family
of data terminals.

United States

ALABAMA
Huntsville
Tel: (205) 881-4591

ARIZONA
Phoenix
Tel: (602) 273-8000

CALIFORNIA
Canoga Park
Tel: (213) 702-8300
Fullerton
Tel: (714) 870-1000
Los Angeles
Tel: (213) 970-7500
North Hollywood
Tel: (213) 877-1282
Palo Alto
Tel: (415) 857-8000
Sacramento
Tel: (916) 929-7222
San Diego
Tel: (714) 279-3200
Santa Clara
Tel: (408) 988-7000

COLORADO
Englewood
Tel: (303) 771-3455

CONNECTICUT
Wallingford
Tel: (203) 265-7801

FLORIDA
Ft. Lauderdale
Tel: (305) 973-2600
Orlando
Tel: (305) 859-2900

GEORGIA
Atlanta
Tel: (404) 955-1500

HAWAII
Honolulu
Tel: (808) 526-1555

ILLINOIS
Rolling Meadows
Tel: (312) 255-9800

INDIANA
Indianapolis
Tel: (317) 842-1000

IOWA
Iowa City
Tel: (319) 351-1020

KENTUCKY
Louisville
Tel: (502) 426-0100

LOUISIANA
Kenner
Tel: (504) 443-6201

MARYLAND
Hanover
Tel: (301) 796-7700
Rockville
Tel: (301) 948-6370

MASSACHUSETTS
Lexington
Tel: (617) 861-8960

MICHIGAN
Farmington Hills
Tel: (313) 476-6400

MINNESOTA
St. Paul
Tel: (612) 644-1100

MISSOURI
Kansas City
Tel: (816) 763-8000
St. Louis
Tel: (314) 878-0200

NEW JERSEY
Paramus
Tel: (201) 265-5000
Piscataway
Tel: (201) 981-1199

NEW MEXICO
Albuquerque
Tel: (505) 292-1330

NEW YORK
Albany
Tel: (518) 458-1550
Fairport
Tel: (716) 223-9950
New York City
Tel: (212) 971-0800
Syracuse
Tel: (315) 455-2486
Woodbury
Tel: (516) 921-0300

NORTH CAROLINA
Greensboro
Tel: (919) 852-1800

OHIO
Cleveland
Tel: (216) 243-7300
Dayton
Tel: (513) 859-8202

OKLAHOMA
Oklahoma City
Tel: (405) 946-9499
Tulsa
Tel: (918) 665-3300

OREGON
Wilsonville
Tel: (503) 682-8000

PENNSYLVANIA
King of Prussia
Tel: (215) 265-7000
Pittsburgh
Tel: (412) 782-0400

SOUTH CAROLINA
Columbia
Tel: (803) 782-6493

TEXAS
Houston
Tel: (713) 776-6400
Richardson
Tel: (214) 231-6101
San Antonio
Tel: (512) 434-8241

UTAH
Salt Lake City
Tel: (801) 974-1700

VIRGINIA
Richmond
Tel: (804) 285-3431

WASHINGTON
Bellevue
Tel: (206) 643-4000

WISCONSIN
Brookfield
Tel: (414) 784-8800

Canada

ALBERTA
Calgary
Tel: (403) 253-2713

BRITISH COLUMBIA
Richmond
Tel: (604) 270-2277

NOVA SCOTIA
Dartmouth
Tel: (902) 469-7820

ONTARIO
Mississuaga
Tel: (416) 678-9430
Ottawa
Tel: (613) 820-6483

QUEBEC
Kirkland
Tel: (514) 697-4232

Central and South America

ARGENTINA
Buenos Aires
Tel: 792-1293

BRAZIL
06400 Barueri-SP
Tel: 421-1311
22471 Rio de Janeiro-RJ
Tel: 286-0237

EL SALVADOR
San Salvador
Tel: 252787

GUATEMALA
Guatemala City
Tel: 316627, 314786,
66471-5, ext. 9

MEXICO
Mexico 23, D.F.
Tel: (905) 676-4600

PERU
Lima 1
Tel: 41-4325

VENEZUELA
Caracas 1071
Tel: 239-4133

Europe, Northern Africa, Middle East

AUSTRIA
A-1205 Vienna
Tel: (222) 35-16-210

BELGIUM
B-1170 Brussels
Tel: (02) 762-32-00

DENMARK
DK-3460 Birkerod
Tel: (02) 81-66-40

FINLAND
SF-02100 Espoo 10
Tel: (90) 455-0211

FRANCE
F-69130 Ecully
Tel: (78) 33-81-25
F-93153 Le Blanc Mesnil
Tel: (01) 865-44-52
F-91947 Orsay
Tel: (1) 907-78-25
F-31081 Toulouse
Tel: (61) 40-11-12

GERMAN FEDERAL REPUBLIC
D-1000 Berlin 30
Tel: (030) 24-90-86
D-7030 Boblingen
Wurttemberg
Tel: (07031) 667-1
D-4000 Dusseldorf 11
Tel: (0211) 5971-1
D-6000 Frankfurt 56
Tel: (0611) 50-04-1
D-2000 Hamburg 60
Tel: (040) 63804-1
D-3000 Hannover 91
Tel: (0511) 46-60-01

GREAT BRITAIN
Altrincham,
Cheshire, WA14 1NU
Tel: (061) 928-6422
Castleford,
Yorkshire, WF10 1AE
Tel: (0977) 550016
London Colney,
Hertfordshire, AL2 1HA
Tel: (0727) 24400
Shirley, Solihull
West Midlands, B90 3BJ
Tel: (021) 7458800
Winnersh, Wokingham
Berkshire, RG11 5AR
Tel: (0734) 784774

GREECE
Athens 133
Tel: 32-30-303, 32-37-371

IRELAND
Dublin 2
Tel: 680424, 26

ITALY
I-20063 Cernusco Sul
Navliglio
Tel: (02) 903691
I-35100 Padova
Tel: (049) 664888
I-00143 Roma
Tel: (06) 54831
I-10133 Torino
Tel: (011) 682245/659308

LUXEMBURG
B-1200 Brussels
Tel: (02) 762-32-00

NETHERLANDS
Amstelveen
Tel: (20) 47-20-21

NORWAY
1345 Oesteraas
Tel: (02) 17-11-80

SCOTLAND
South Queensferry,
West Lothian, EH30 9TG
Tel: (031) 331-11000

SPAIN
E-Barcelona 29
Tel: (3) 322-2451, 321-7354
Madrid 16
Tel: 458-2600

SWEDEN
S-161 Bromma 20
Tel: (08) 730-05-50

SWITZERLAND
CH-1219 LeLignon-Geneva
Tel: (022) 96-03-22
CH-8967 Widen
Tel: (57) 50-111

USSR
Moscow 101000
Tel: 294-2024

Southern Africa, Asia, Australasia

AUSTRALIA
Blackburn, Victoria 3130
Tel: 89-6351
Fyshwick A.C.T. 2069
Tel: 804-244
Nedlands, W.A. 6009
Tel: 386-5455
North Ryde, N.S.W. 2113
Tel: 887-1611
Parkside, S.A. 5063
Tel: 272-5911
Spring Hill, QLD, 4000
Tel: 229-1544

HONG KONG
Hong Kong
Tel: 5-8323211

INDIA
Bangalore 560 025
Tel: 55668
Prabhadevi, Bombay 400 025
Tel: 422-3101
New Dehli 110 024
Tel: 682547

JAPAN
Suginami-ku, Tokyo 168
Tel: (03) 331-6111
Yodogawa-ku, Osaka 532
Tel: (06) 304-6021

NEW ZEALAND
Epsom, Aukland
Tel: 68-7159
Kilbirnie, Wellington 3
Tel: 877-199

PHILIPPINES
Metro Manila
Tel: 85-35-81, 85-34-91

SINGAPORE
Singapore 0511
Tel: 631788

SOUTH AFRICA
Sandton, 2144
Tel: 802-5111

TAIWAN
Kaohsiung
Tel: 241-2318
Taipei
Tel: 751-0404

For Countries and Areas Not Listed:

EASTERN USA
Paramus, New Jersey
Tel: (201) 265-5000

MIDWESTERN USA
Rolling Meadows, Illinois
Tel: (312) 255-9800

SOUTHERN USA
Altanta, Georgia
Tel: (404) 955-1500

WESTERN USA
Los Angeles, California
Tel: (213) 877-1282

CANADA
Mississauga, Ontario
Tel: (416) 678-9430

EAST EUROPEAN AREAS
Vienna, Austria
Tel: (222) 35-16-210

EUROPEAN AREAS
Meyrin 2, Switzerland
Tel: (022) 83-81-11

MEDITERRANEAN AND MIDDLE EAST AREAS
Athens, Greece
Tel: 808-0359, 808-0429

ALL OTHER AREAS
Hewlett-Packard Intercontinental
3495 Deer Creek Road
Palo Alto, California 94304, USA
Tel: (415) 857-1501

Rev. 6/1/81

5953-2069 (42)D Printed in U.S.A. 7/81

hp HEWLETT PACKARD