



Model 2626A



The HP 2626A is a high performance terminal using silicon on sapphire components to provide unique display capabilities and data communications flexibility.

The HP 2626 allows division of the display memory into four independent workspaces and the display screen into separate windows to examine and manipulate the contents of the workspaces. Independent terminal configurations may be attached to each workspace allowing four virtual terminals.

In addition dual data communications ports may be linked to workspaces to display data from two different sessions or computers.

An optional forms copy integral printer can provide copies of forms or, using a compressed mode, print 132 column reports on the 8-1/2 inch wide paper.

The extraordinary power and flexibility of this terminal is made easy to use via screen labeled function keys which allow the system designer to create forms interactively or configure the terminal through different menus.

For an application, user operation may be further simplified and in fact the power and flexibility of the terminal hidden from the user by specifying operation through the screen labeled user keys and providing audio cues to create a superb man-machine interface. The capabilities may be applied to provide high performance data entry systems using low speed lines, for increasing programming productivity, implementing advanced office applications, and many more.

## FEATURES

### Multiple Workspaces\*

- Up to 4 available
- Line lengths from 80 to 160 columns
- 119 eighty character lines to
- 59 one hundred sixty character lines

### Multiple Windows\*

- Up to 4 available
- Two vertical
- Four horizontal

### Dual Data Communications Ports\*

- Simultaneous communication to two computers or serial printer
- Point-to-point, multipoint
- Asynchronous, synchronous

### Horizontal Scrolling\*

- Accommodates lines up to 160 characters long

### Forms Copy Integral Printer (optional)

- Compressed mode for 132 column lines
- Expanded print for larger characters
- Report modes with 60 or 64 line pages

### User Definable Softkeys

- 16 character screen labels for 8 keys
- Return and Enter keys programmable

### Interactive Forms Design (via Function Keys)

- Single, double, and bold lines
- Display enhancements: inverse video, underline and blink
- Character edits: Alpha, alphanumeric, numeric

### Programmable Audio Feedback

- 15 tones – 16 durations – two volumes

### HP 2645A escape sequence compatible

### Character sets and keyboards for six optional languages

- French, German, Danish/Norwegian, Finnish/Swedish, Spanish and United Kingdom (optional)

### Extended Character Sets

- Line drawing set of 96 characters
- Math character set (optional)
- Large character set (optional)

### Reliability and Serviceability

- Self test capabilities for terminal, data communications, and integral printer.

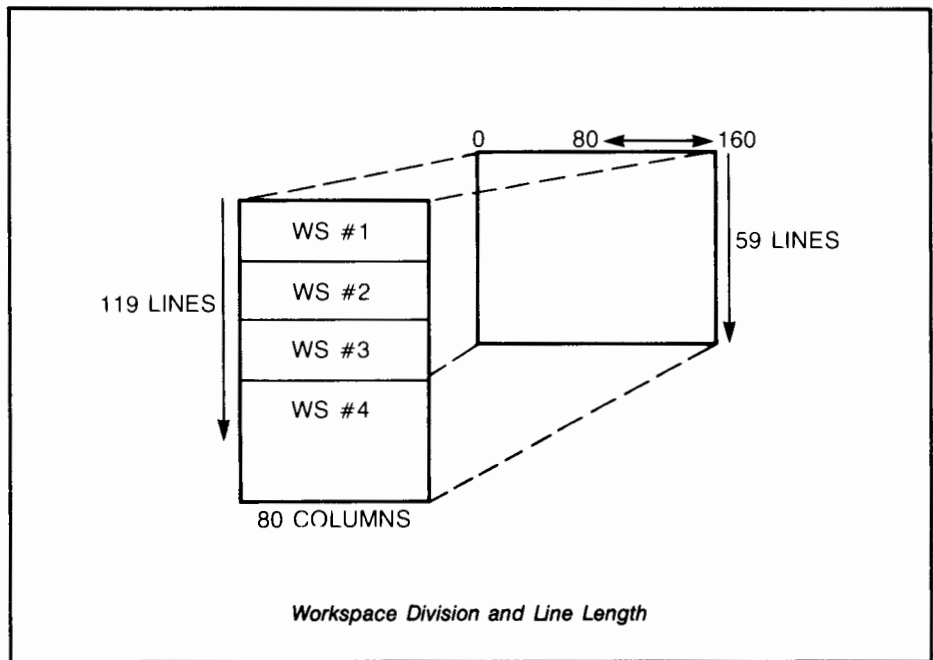
\*Capabilities made possible through custom LSI.

# Memory

## WORKSPACES DIVIDE MEMORY

Display memory may be divided into up to four individual workspaces. Each workspace may be independently viewed, controlled and configured including attachment to a data comm port. (For example memory lock, auto line feed, etc., may be set in a particular workspace.) Data may be transferred from one workspace to another, to the integral printer, or to an external device. This capability amounts to four virtual terminals which may be changed from application to application or system to system.

The number of lines in a workspace may vary; however, the total number of lines in all workspaces must be less than or equal to the total number of lines of memory. The total amount of memory available is 9520 displayed characters independent of control codes for display enhancements, field definitions, and edits. The line length for all workspaces may be set from 80 to 160 characters so that 132 column reports as well as double width pages may be handled. Viewing is via horizontal scrolling.



# Display

## WINDOWS DIVIDE SCREEN

The display screen can be divided into up to four windows. The windows are attached to workspaces to view and manipulate the contents. To view the entire contents of a workspace, data may be scrolled horizontally and vertically or the size of a window may be changed from the keyboard. The screen may be divided into up to four horizontal segments and two vertical segments. The total maximum number of different screen windows is four.

The screen displays 1920 characters in a 24 line by 80 column format with two additional lines used for the labeling of function/softkeys, or as a system error/status window.

Optional character sets provide math and large characters as well as capabilities for French, German, Danish/Norwegian, Finnish/Swedish, Spanish, and United Kingdom characters. These language character sets operate in seven bit ASCII or eight bit International Standards Organization (ISO) modes. The handling of mute characters is also selectable as is the keyboard layout in French (AZERTY or QWERTY).

The display itself offers high quality and resolution using a 7 x 9 dot matrix in a 9 x 15 character cell with full interstitial dots, a technique providing the best display quality yet in a terminal from Hewlett-Packard.

<b>Vendor Name</b>		<b>Address</b>		<b>City</b>	
PACIFIC TOOL INC		1273 CRECENT WAY		SAN JOSE	
<b>Voucher</b>	<b>Date</b>	<b>Units</b>	<b>Purchase Assembly</b>		
07	16 1979	97	FINISHED STEEL CASTINGS		
03	19 1979	749	TAPE TRANSPORT BACKPLATES		
02	28 1979	13	MILLED FLANGE ASSEMBLIES		
<b>HEWLETT PACKARD</b>		<b>INITIATED BY: H.C. DOUGLAS</b>			

Interoffice Memo

To: Beth and John

The meeting which previously had been scheduled for next week will take place on Thursday at 8:00.

There is obviously a great deal of emphasis being placed on the importance of our project.

Bob

```

340 FOR C1=C+7 TO LEN(A$)
350 IF A$(C1,C1)<>" " OR LEN(A$)=C1 THEN DO
360 CONVERT C1-C TO C$
370 A$(C1)'27"&a+"+DEB$(C$)+"C"+A$(C1)
380 GO TO 310
390 DOEND
400 NEXT C1
    
```

$$\int \int \int \ddot{y} * \begin{bmatrix} -h & n\ddot{y} \\ 2\sigma_1 & nt \end{bmatrix} dv =$$

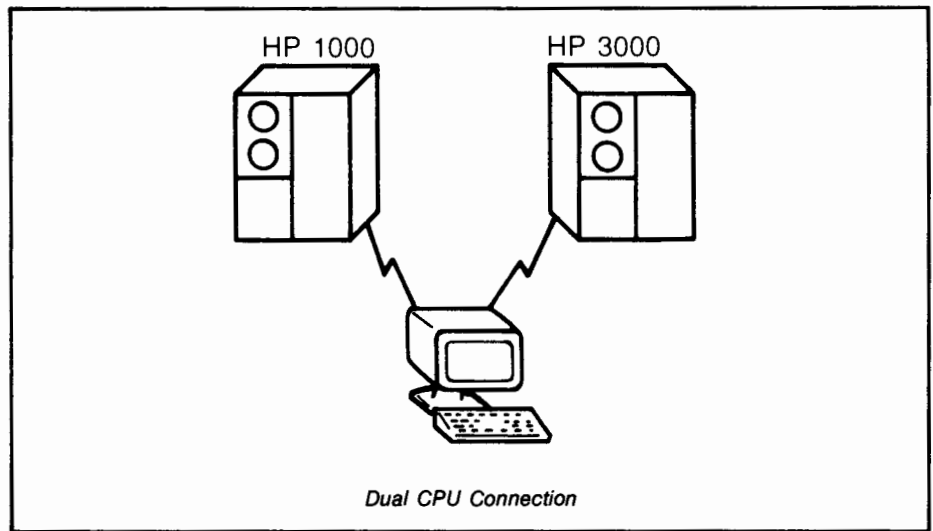
NEXT WINDOW	NEXT WORKSPACE	BORDER LEFT	BORDER RIGHT	1	1	BOTTOM BORDER UP	BOTTOM BORDER DN	TOP BORDER UP	TOP BORDER DN
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*Four Windows with Window Control Functions*

## Data Communications

### DUAL DATA COMM PORTS

Two communications ports allow simultaneous communications with two computers, two sessions on the same computer, or with a computer and an external RS232C serial printer. Data may be displayed or passed through the terminal to a local printer. Data may be communicated to the computer using block, line, line modify, or character modes. The line modify mode allows a user to take advantage of the editing capabilities of the terminal while using character mode applications on the computer.



Data communications flexibility is extensive. The HP 2626A provides point-to-point and asynchronous or synchronous multipoint capabilities, full and half duplex operation, flexible handshaking, and expandable buffers. RS232C interfacing or 20mA current loop is available. Data communications set-up is made easy by a series of configuration menus which present only the options required for a particular capability. Default values provide for the most common choices.

```

FULL DUPLEX MODEM #1
BaudRate 300 Parity 0000 DataBits 7 BufSize 128 XmitClkSource Int
Asterisk CS StopBits 2 EngAck Y1% RecvClkSource Int
TR(CD) III Chk Parity Y1% SR(CH) L0 StripNulDel Y1% XmitClkOut x16
ExtClkIn x16

RecvPace None RR(CF)Recv NO
XmitPace None

FULL DUPLEX Hardwired #1
BaudRate 9600 Parity 000 DataBits 7 BufSize 128 XmitClkSource Int
Asterisk 011 StopBits 2 EngAck Y1% RecvClkSource Int
TR(CD) III Chk Parity Y1% SR(CH) L0 StripNulDel Y1% XmitClkOut x16
ExtClkIn x16

RecvPace None SRRXmit NO RR(CF)Recv NO
XmitPace None SRRInvert NO CS(CB)Xmit Y1%
    
```

### Data Comm Menu

### FORMS COPY INTEGRAL PRINTER

The printer makes dot copies of information in workspaces, windows, or as displayed on the screen. It duplicates line drawing, math, and large characters as well as the characters associated with the language options. Inverse video fields are copied by outlining with a box. In addition a compressed print mode may be used to copy lines of up to 132 columns on the 8-1/2 inch wide paper. Longer line lengths are printed by wrapping the characters. An "expanded print" mode prints double sized characters. A report mode formats data into 60 line 11 inch pages and the metric mode formats data into 64 line A4 size pages.

RUN DATE 05/19/80		PURCHASED PART STD VS CUR COST COMPARISON							PAGE 2	
PART CATEGORY ANALYSIS										
PART-NUMBER	DESCRIPTION	ACCT REFL	USE	STD-MATL	CUR-MATL	6-DIFF	STD-EXTD	CUR-EXTD	DIFF-EXTD	Z-DIFF
0371-1259	CAP RT BKTPAR CB	3521 0000	11113	.0490	.0490	.0000	544.5370	544.5370	.0000	.00
0371-1260	CAP BKSLH BR CB	3521 0000	11113	.0490	.0490	.0000	544.5370	544.5370	.0000	.00
0371-1261	KEYCAP :: CDC BR	3521 0000	10381	.0490	.0490	.0000	508.6690	508.6690	.0000	.00
0371-1262	KEYCAP "" CDC BR	3521 0000	10381	.0490	.0490	.0000	508.6690	508.6690	.0000	.00
0371-1263	KEYCAP < CDC BR	3521 0000	10381	.0490	.0490	.0000	508.6690	508.6690	.0000	.00
0371-1264	KEYCAP > CDC BR	3521 0000	10381	.0490	.0490	.0000	508.6690	508.6690	.0000	.00
0371-1265	KEYCAP /? CDC BR	3521 0000	10381	.0490	.0490	.0000	508.6690	508.6690	.0000	.00
0371-1266	CAP ESC DEL CBRN	3521 0000	9755	.0490	.0490	.0000	477.9950	477.9950	.0000	.00
0371-1267	CAP BACKSPC CBRN	3521 0000	13790	.0490	.0490	.0000	675.7100	675.7100	.0000	.00
0371-1268	CAP CAPS CD BRN	3521 0000	13790	.0490	.0490	.0000	675.7100	675.7100	.0000	.00
0371-1269	CAP CTRL CDC BRN	3521 0000	13790	.0490	.0490	.0000	675.7100	675.7100	.0000	.00
0371-1270	CAP ENTER CDC BR	3521 0000	13790	.0490	.0490	.0000	675.7100	675.7100	.0000	.00
0371-1271	CAP NULN CDC BRN	3521 0000	9755	.0490	.0490	.0000	477.9950	477.9950	.0000	.00
0371-1272	CAP BREAK CD BRN	3521 0000	9755	.0490	.0490	.0000	477.9950	477.9950	.0000	.00
0371-1273	CAP TAB/BKTB CBR	3521 0000	13790	.1900	.1900	.0000	2620.1000	2620.1000	.0000	.00
0371-1274	CAP SHIFT CD BRN	3521 0000	27580	.1900	.1900	.0000	5240.2000	5240.2000	.0000	.00
0371-1275	CAP RETURN CDBRN	3521 0000	13790	.2600	.2600	.0000	3565.4000	3565.4000	.0000	.00
0371-1276	CAP BLANK ADBRN	3521 0000	9755	.0490	.0490	.0000	477.9950	477.9950	.0000	.00
0371-1277	SPCBAR ASSY CBRN	3521 0000	13790	1.2500	1.2500	.0000	17237.5000	17237.5000	.0000	.00
0371-1278	CAP HOMEUP ADBRN	3521 0000	3202	.1900	.1900	.0000	608.3800	608.3800	.0000	.00
0371-1279	CAP HOMEIN ADBRN	3521 0000	3202	.1900	.1900	.0000	608.3800	608.3800	.0000	.00
0371-1280	CAP ROLLUP ADBRN	3521 0000	3202	.1900	.1900	.0000	608.3800	608.3800	.0000	.00
0371-1281	CAP ROLLIN ADBRN	3521 0000	3202	.1900	.1900	.0000	608.3800	608.3800	.0000	.00
0371-1282	CAP CUR LT ADBRN	3521 0000	3202	.1900	.1900	.0000	608.3800	608.3800	.0000	.00
0371-1283	CAP CUR RT ADBRN	3521 0000	3202	.1900	.1900	.0000	608.3800	608.3800	.0000	.00
0371-1284	CAP CUR LP ADBRN	3521 0000	3202	.1900	.1900	.0000	608.3800	608.3800	.0000	.00
0371-1285	CAP CUR DN ADBRN	3521 0000	3202	.1900	.1900	.0000	608.3800	608.3800	.0000	.00
0371-1352	CAP CUR LF ADBRN	3521 0000	3202	.1900	.1900	.0000	608.3800	608.3800	.0000	.00

### Using Integral Printer

device modes	" from" device	" to" devices	ADVANCE PAGE	1	1	ADVANCE LINE	COPY ALL	COPY PAGE	COPY LINE
device control	SCREEN COPY	LOG BOTTOM	LOG TOP	1	1	EXPAND PRINT	COMPRESS PRINT	REPORT PRINT	METRIC PRINT

### Printer Control Function Keys - Screen Labels

## INTERACTIVE FORMS DESIGN

Function keys provide access to a sketch forms capability for drawing horizontal and vertical lines with single, double line, and bold definitions. Data Frame and Margin Frame keys are also provided. Fields may be defined as protected, unprotected, or transmit only and are accessed through a Define Field function. The edit function assigns character edits for alphanumeric, alpha, and numeric data. The display enhancements include inverse video, underline, and blinking in any of eight possible combinations. A Security Video enhancement allows passwords to be entered but not displayed. These capabilities are all accessed via function keys. No special codes to learn and memorize. A capability guaranteed to shorten the development time for forms.

Vendor Name		Address		City	State	Zip
PACIFIC TOOL INC		1273 CRESCENT WAY		SAN JOSE	CALIFORNIA	95131
Voucher Date	Units	Purchase And Assembly Details			Post Ref.	Cost
07 16 1976	98	FINISHED STEEL CASTINGS			874738	65.88
03 19 1976	749	TAPE TRANSPORT BACKPLATES			875483	9753.88
02 28 1976	13	MILLED FLANGE ASSEMBLY			748563	877.44
	19					.
	19					.
HEWLETT-PACKARD		INITIATED BY: H.C. DOUGLAS			DATE:	04 14 1976

Typical Form

f1	f2	f3	f4	f5	f6	f7	f8
sketch forms	ERASE MODE	FROM CURSOR	TO CURSOR	HORIZONTAL LINE	VERTICAL LINE	HORIZONTAL SEGMENT	VERTICAL SEGMENT
draw lines	SINGLE LINE	DOUBLE LINE	BOLD LINE	INVERSE VIDEO	UNDERLINE VIDEO	BLINK VIDEO	

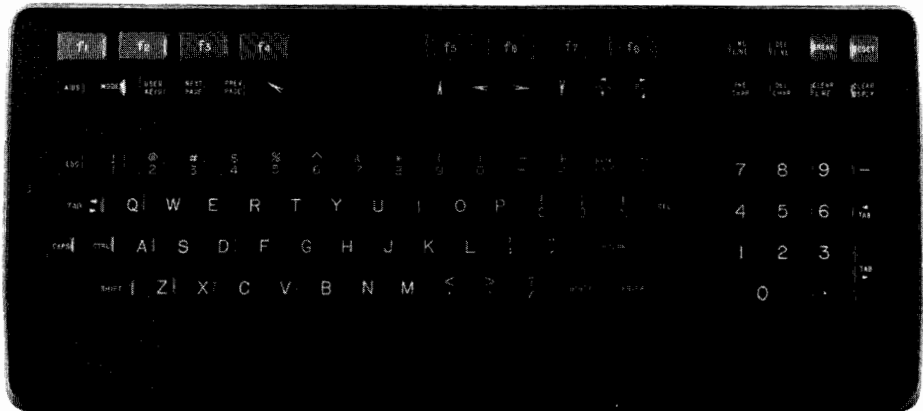
Forms Drawing Function Keys - Screen Labels

enhance video	START UNPROTECT	START TRANSMIT FLD	STOP FIELD	ALPHA NUMERIC	ALPHA ONLY	NUMERIC ONLY	FORMAT MODE
define fields	modify char set	SET ENHNCMNT	SECURITY VIDEO	INVERSE VIDEO	BLINK VIDEO	UNDERLINE VIDEO	BACKGRND INVERSE

Define Fields and Enhance Video Function Keys - Screen Labels

## SCREEN LABELED USER KEYS

Eight soft keys can be labeled on the screen using two lines of eight characters each. This capability offers a new level of operator/application program interfacing by allowing the program to re-define and re-label the keys as required to increase ease of use. In addition the Return and Enter keys are programmable. The Return key could tab for example, or the Enter key could change workspaces revealing a hidden form. Also the Tab key can be set to transmit spaces to the computer. Both forward tab and back tab keys are located on the separate numeric pad to speed and ease the task of data entry.



## PROGRAMMABLE AUDIO FEEDBACK

Audio cues to alert operators to conditions or status within an application program may be provided using the programmable tone which has fifteen pitches with sixteen durations and two volume levels. Distinctive tone phrases may be used to signify types of errors, tell a person of completed processes, or status.



## HP 2645A ESCAPE SEQUENCES

In the continuing effort to protect and leverage software investments made by users, the HP 2626A escape sequences (control codes) are compatible with the HP 2645A. (If performance compatibility in a particular application is a concern, testing with the application program is recommended.)

## RELIABILITY/SERVICEABILITY

The HP 2626A terminal provides several levels of self test capability including a "Power On Test" which provides a complete test of the terminal including memory, a terminal test which does not disturb data, a Data Comm test, and a printer test. These tests allow the user to verify proper operation and aid service personnel in diagnosis. In addition the terminal is constructed for easy access to components, provides a list ROMs function for easy identification of components, and has sockets for all major components.

Not only has the terminal design been subjected to environmental tests involving temperature, humidity, vibration, and electro-static discharge susceptibility, but the terminal and its components have been tested, inspected, and burned-in so that the terminal meets Hewlett-Packard's standards of reliability. In addition Hewlett-Packard works with safety agencies around the world to assure that our products are safe as well as reliable.

## Product Support

### HARDWARE SUPPLIED

2626A Display Station  
Option 050 Integral Printer (includes two rolls of paper).

### DOCUMENTATION SUPPLIED

2626 User's Manual (02626-90001)  
2626 Reference Manual (02626-90002)

### DOCUMENTATION AVAILABLE

2626 Service Manual (02626-90003)

## HP SYSTEMS SUPPORT

Refer to appropriate HP system data sheet for use and support of the HP 2626 in systems. If this product is used in a customer-assembled system, the overall operation responsibility of the system rests with the customer.

## WARRANTY

The HP 2626 is warranted against defects in materials and workmanship. Contact the local HP Sales Office for terms and conditions. NOTE: *For warranty coverage on the 2626 Option 050, HP qualified printer paper must be used (92160A or 92160B).*


POWER ON TEST      MONITOR MODE      TERMINAL TEST      IDENTIFY ROMS      DATA COMM TEST      INT. PRINTER TEST

### Service Function Keys – Screen Labels

```

Character ROMs
1AC1-6018 ROMAN & EXTENDED LINE DRAWING (UPPER BYTE) REV B
1AC1-6017 ROMAN & EXTENDED LINE DRAWING (LOWER BYTE) REV B
1AC1-6020 EXTENDED MATH, EXTENDED LARGE, & ROMAN EXTENSION (UPPER BYTE)
1AC1-6019 EXTENDED MATH, EXTENDED LARGE, & ROMAN EXTENSION (LOWER BYTE)

Firmware ROMs
1818-1255 2004
1818-1256 2004
1818-1257 2004
1818-1258 2004
1818-1259 2004
1818-1260 2004
1818-1261 2004
1818-1262 2004
1818-1263 2004
1818-1264 2004
    
```



*Identify ROMS Key Output*

```

Data Comm Test

Port 1
Test type Loopback (Local/Remote Modem)
Result Pass Err# 0

Data Comm Test Menu
    
```

```

@ABC DEF GHIJK LMNOPQRS TUVWXYZ[ \]^_`abc defghijk lmnopqrs tuvxyz{ }~|
@ABC DEF GHIJK LMNOPQRS TUVWXYZ[ \]^_`abc defghijk lmnopqrs tuvxyz{ }~|
@ABC DEF GHIJK LMNOPQRS TUVWXYZ[ \]^_`abc defghijk lmnopqrs tuvxyz{ }~|
@ABC DEF GHIJK LMNOPQRS TUVWXYZ[ \]^_`abc defghijk lmnopqrs tuvxyz{ }~|
@ABC DEF GHIJK LMNOPQRS TUVWXYZ[ \]^_`abc defghijk lmnopqrs tuvxyz{ }~|
    
```

*Integral Printer Test Output*

# Specifications

## GENERAL

Screen Size:	150 mm (6 inches) × 215 mm (8.5 inches) diagonal measurement 262 mm (10.4 inches)
Screen Capacity:	24 lines × 80 columns (1920 characters). 25th and 26th for labeling of function/softkeys or as message/status lines
Character Generation:	7 × 11 enhanced dot matrix with interstitial dots; 9 × 15 dot character cell; non-interlaced raster scan.
Character Size:	2.4 mm (.094 inches) × 3.5 mm (.138 inches).
Character Set:	Upper/lower case, displayable control codes, extended line drawing. Optional math symbols, large characters, Finnish/Swedish, Danish/Norwegian, French, German, Spanish and U.K. characters.
Cursor:	Blinking-underline, blinking-square for insert mode.
Display Enhancements:	Inverse video, underline, blink, security
Refresh Rate:	60 Hz (50 Hz optional)
Tube Phosphor:	P4
Implosion Protection:	Tension Band
Memory:	80 characters by 119 lines including a default data comm buffer. (Buffer expandable to 2K bytes — reduces memory to 80 characters by 107 lines.) 128 bytes non-volatile configuration memory (battery powered).
Keyboards:	Full ASCII code keyboard; eight screen labelled keys; cursor controls; 14 key numeric pad; auto-repeat; N-key roll-over; detached with 1.2M (4 foot) cable. Optional Finnish/Swedish, Danish/Norwegian, French, German, Spanish, and U.K. keycaps.

## DATA COMMUNICATIONS


Data Rate:	110, 134.5, 150, 200, 300, 600, 1200, 1800, 2000, 2400, 4800, 9600 baud and external. Operation with control codes, escape sequences, integral printer, or baud rates above 4800 may require CPU supplied delays or handshakes. Typical printer throughput is 60 cps. Full 24 × 80 line character screen copies in 18 seconds.
Port 1 Asynchronous/Synchronous Interface (50 pin):	EIA standard RS232C; fully compatible with Bell 103A, 202C/D/S/T modems. Choice of main channel and/or reverse channel in half duplex. CCITT V.24 hardware handshaking available. Accessory PODS provide current loop, (13266A); asynchronous or synchronous multipoint, (13267A first terminal, and 13268A daisy-chain terminal. 300 Baud Modem 13268A U.S. only)
Transmission Modes:	Full or half-duplex, asynchronous, synchronous
Port 2 Asynchronous/Synchronous Interface (25 pin):	EIA standard RS232C; fully compatible with Bell 103A modems, 202C/D/S/T modems. Choice of main channel and/or reverse channel in half duplex. CCITT V.24, hardware handshaking for control of external printer.
Transmission Modes:	Full or half duplex, asynchronous, synchronous (Does not support HP Multipoint polled protocol)
Operating Modes (Both Ports):	On-line; off-line; character, line modify, line and block
Parity:	Selectable; even, odd, none, 0, 1

## POWER REQUIREMENTS

Input Voltage:	120V (+5%, -10%) at 60 Hz (±5%)	100V (+5%, -10%) at 60 Hz (±5%)
	100V (+5%, -10%) at 50 Hz (±5%)	220V (+5%, -10%) at 50 Hz (±5%)
	240V (+5%, -10%) at 50 Hz (±5%)	
with Option -050	115V (+10%, -25%) at 50/60 Hz (±5%)	230V (+10%, -15%) at 50 Hz (±5%)
Power Consumption:	75W	
with Option -050	120W	

## ENVIRONMENTAL CONDITIONS

Temperature, Free Space	Non-Operating: -40 to +60°C (-40 to +140°F)
Ambient:	Operating: 0 to +55°C (+32 to +131°F)
with Option -050:	Operating: + 5 to +40°C (+41 to +104°F)
Humidity:	5 to 95% (non-condensing)
with Option -050:	5 to 80% (non-condensing)
Altitude:	Non-Operating: Sea level to 15240 meters (50,000 feet)
	Operating: Sea level to 4572 meters (15,000 feet)
Vibration and Shock:*	Vibration: 0.38 mm, (0.015") pp, 5 to 55 Hz, 3 axis
	Shock: 20 g, 1/2 sine

\*Type tested to  for normal shipping and handling in original shipping container.

## PRODUCT SAFETY

Product Meets: The requirements of the following safety agencies for EDP equipment and/or office equipment in the following countries: Canada — CSA, Finland — FEI, Germany — VDE, Switzerland — SEV, U.K. — BSI, United States — U.L.

## PHYSICAL SPECIFICATIONS

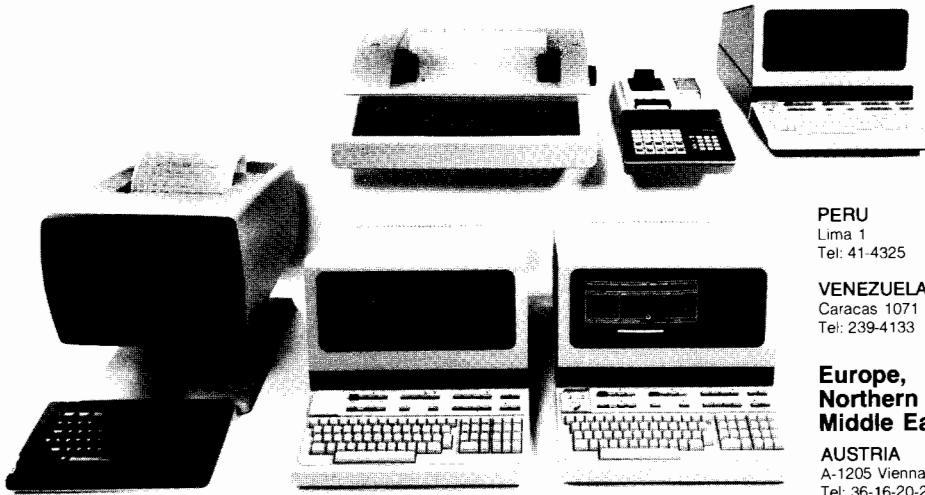
Display Monitor Weight: 16.8 kg (37 pounds)  
 with Option -050: 19.0 kg (42 pounds)  
 Keyboard Weight: 2.0 kg (4.4 pounds)  
 Display Monitor Dimensions: 380 mmW × 475 mmD × 440 mmH (15.0"W × 18.7"D × 17.3"H); (665 mmD (26.2"D) including keyboard)  
 Keyboard Dimensions: 430 mmW × 190 mmD × 75 mmH (17.0"W × 7.5"D × 3.0"H)

## Ordering Information

Product Number	Option	Description	U.S. Price
2626A	— -001 -002 -003 -004 -005 -006 -013 -014 -015 -016 -050 -201	Display Station. ASCII keyboard with numeric pad, 80 character by 119 lines display memory, serial I/O port, 60 Hz, 110 volt operation  Finnish/Swedish character set and keyboard† Danish/Norwegian character set and keyboard† French character set and keyboard† German character set and keyboard† United Kingdom character set and keyboard† Spanish Language character set and keyboard† 240V, 50 Hz operation 100V, 60 Hz operation 220V, 50 Hz operation 100V, 50 Hz operation Integral forms copy thermal printer, 120 characters-per-second using 8-1/2 inch wide paper Math and Large Character sets. (Standard with any language option)	
†Deletes U.S. keyboard and includes math and large character sets.			
	Accessories	Description	U.S. Price
Cables for Port 1 (50 Pin)	13222C 13222M 13222N 13222W 13222Y 13232R	RS232 cable — female, 2 meters European modem cable — male, 5 meters U.S. modem cable — male, 5 meters HP 300 System cable RS232 EMP protect cable — male, 5 meters Multipoint extension cable — female/male, 100 feet	
Cables for Port 2 RS232 Connector (25 Pin)	13242G 13242H 13242M 13242N 13242Y  13265A 13266A 13267A -001 13268A -001 92160A 92160B 1420-0259 02620-60056 02620-60062	RS232 printer cable — male/male, 5 meters RS232 printer cable — male/female, 5 meters European modem cable — male, 5 meters U.S. modem cable — male, 5 meters RS232 EMP protect cable — male/male, 5 meters  300 baud modem pod (U.S. only) Current loop pod Asynchronous multipoint interface pod for 1st terminal Synchronous capability — 10 meter cable included Asynchronous multipoint daisy-chain interface pod Synchronous capability — 10 meter cable included Package of blue thermal paper, 8-1/2" × 100' (24 rolls) Package of black thermal paper, 8-1/2" × 100' (24 rolls) 4.2 mercuric battery Port 1 Data Comm Loopback Connector Port 2 Data Comm Loopback Connector	

# 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) 244-1361

#### 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

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#### 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

Las Cruces  
Tel: (505) 526-2484

#### 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) 721-0200

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: (801)974-1700

#### UTAH

Salt Lake City  
Tel: (801) 974-1700

Las Cruces  
Tel: (505) 526-2484

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#### WASHINGTON

Bellevue  
Tel: (206) 454-3971

#### WISCONSIN

Brockfield  
Tel: (414) 784-8800

#### Canada

Mississauga  
Tel: (416) 678-9430

Ottawa  
Tel: (613) 820-6483

#### BRITISH COLUMBIA

Richmond  
Tel: (604) 270-2277

#### NOVA SCOTIA

Dartmouth  
Tel: (902) 469-7820

#### ONTARIO

Mississauga  
Tel: (416) 678-9430

Ottawa  
Tel: (613) 820-6483

#### QUEBEC

Pointe Claire  
Tel: (514) 697-4232

#### Central and South America

Argentina  
Tel: 286-0237

Buenos Aires  
Tel: 792-1293

#### BRAZIL

06400 Barueri-SP  
Tel: 421-1311

90000-Porto Alegre-RS  
Tel: 22-2998, 22-5621

20000-Rio de Janeiro-RJ  
Tel: 286-0237

#### EL SALVADOR

San Salvador  
Tel: 252787

#### GUATEMALA

Guatemala City  
Tel: 316627, 314786,

66471-5, ext. 9

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#### IRELAND

Dublin 2  
Tel: 680424, 26

#### ITALY

I-20063 Milano  
Tel: (02) 903691

I-35100 Padova  
Tel: (049) 664888

I-00143 Roma  
Tel: (06) 54 69 61

I-10133 Torino  
Tel: (011) 682245/659308

#### PERU

Lima 1  
Tel: 41-4325

#### VENEZUELA

Caracas 1071  
Tel: 239-4133

### Europe, Northern Africa, Middle East

#### AUSTRIA

A-1205 Vienna  
Tel: 36-16-20-29

#### 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: (1) 865.44.52

F-91401 Orsay  
Tel: (6) 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  
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

#### JAPAN

Yodogawa-ku, Osaka, 532  
Tel: 06-304-6021

Suginami-ku, Tokyo 168  
Tel: 03-331-6111

#### NEW ZEALAND

Epsom, Auckland  
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

Atlanta, Georgia  
Tel: (404) 955-1500

#### WESTERN USA

North Hollywood, California  
Tel: (213) 877-1282

#### CANADA

Mississauga, Ontario  
Tel: (416) 678-9430

#### EAST EUROPEAN AREAS

Vienna, Austria  
Tel: (222) 35-16-20

#### EUROPEAN AREAS

Geneva, Switzerland  
Tel: (022) 98-96-51

#### MEDITERRANEAN AND MIDDLE EAST AREAS

Athens, Greece  
Tel: 808-0359, 808-0429

#### FAR EAST AREA HEADQUARTERS:

Kowloon, Hong Kong  
Tel: 3-7211443/8

#### SOCIALIST COUNTRIES, CONTACT:

Vienna, Austria  
Tel: 35-16-20-29

#### ALL OTHER AREAS

Hewlett-Packard Intercontinental  
3495 Deer Creek Road  
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