



HEWLETT
PACKARD

HP 2670 Series Printers

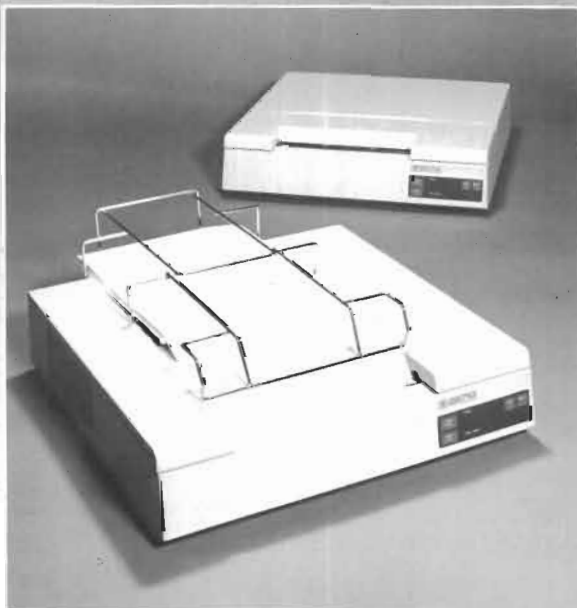


Technical Data



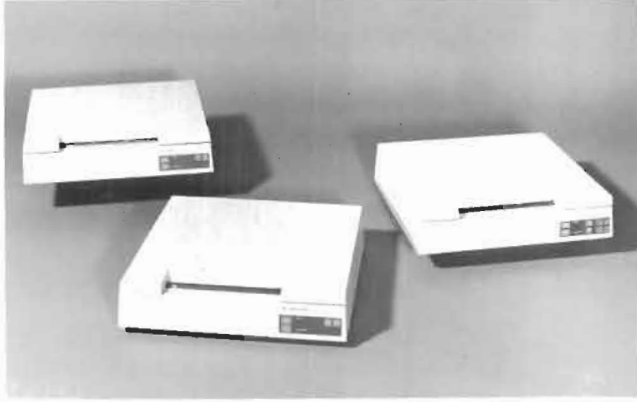
2671A Printer
2671G Graphics Printer
2673A Intelligent Graphics Printer

The HP 2670 Series Printers: three low-cost ways to enter the world of quiet thermal printing with easy-to-read text printing, high quality raster graphics, and friendly user-convenience features.



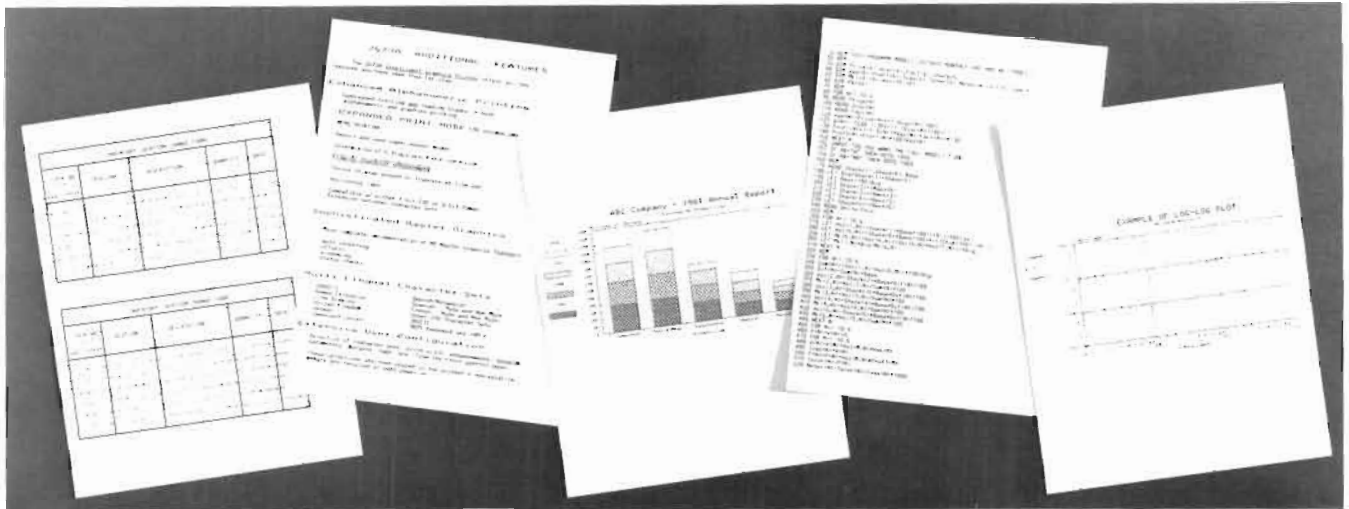
- FAST 120 CPS BI-DIRECTIONAL PRINTING
- 9 x 15 DOT MATRIX CHARACTERS
- 128 ASCII, INTERNATIONAL AND LINE DRAWING CHARACTER SETS
- MULTIPLE PASS PRINTING
- FLAT FAN-FOLD THERMAL PAPER
- HIGH RESOLUTION RASTER GRAPHICS
- NON-VOLATILE CONFIGURATION
- QUIET OPERATION
- FCC APPROVAL FOR HOME USE
- INTERFACE FLEXIBILITY
 - HP-IB (IEEE-488)
 - RS-232C (CCITT V.24) Serial
 - HP and Centronics Parallel

HP 2670 Series Printers



All three printers feature fast 120 character per second bi-directional printing, a 9 × 15 dot matrix character cell and true descenders for character sharpness, quiet operation, and interface flexibility for a wide range of applications. Flat, fan-fold paper eliminates the curl problem normally associated with roll paper.

The versatile HP-IB (IEEE-488) interface is standard with all three printers. RS-232C (CCITT V.24) serial and both HP and Centronics-compatible parallel interface options provide convenient interfacing to a broad range of products and systems.



Forms, text, program listings, and graphics demonstrate the printing versatility of the 2670 series.



The 2671A's standard forms printing capability is compatible with HP 2640 and HP 2620 series terminals.

THE 2671A PRINTER: the entry level printer for text printing. The 2671A features the full 128 USASCII character set, Roman Extension characters for international use, and Line Drawing characters to create forms. Print modes are normal (10 CPI) and compressed (16.2 CPI). Compressed mode allows up to 132 characters to be printed on a line.

Margins, print mode, primary/secondary character sets, and an underlining character enhancement are selected through simple escape sequences transmitted from the host device. A convenient front panel contains form feed, paper feed, self test and printer reset buttons.

The 2671A is ideal for applications requiring fast, quiet text printing: desktop and personal computers, development stations, and character mode terminals.

THE 2671G GRAPHICS PRINTER: clean text printing and dot-for-dot graphics copies. The 2671G offers all the features of the 2671A plus high resolution graphics printing of charts, tables, illustrations, graphs, etc. Single keystrokes or convenient binary drivers control the transfer of graphics from HP raster devices to the 2671G. Software routines can be written to copy dot-addressable graphics from non-HP devices.

The 2671G provides a cost effective solution for diverse applications that require both text printing and graphics copy: desktop and personal computers, graphics terminals, mini-computers, small office and business systems, development stations, and test measurement systems.



The 2671G and the 2673A copy screen graphics directly from HP 2647A and HP 2648A terminals.



Incremental 2673A features include non-volatile configuration, HPL characters, and increased text and graphics capabilities.

THE 2673A INTELLIGENT GRAPHICS PRINTER: sophisticated graphics, full format text printing, and interactive non-volatile configuration. The 2673A offers all the capabilities of the 2671A and 2671G plus many additional user-convenience features. Margins, tabs, print mode, character sets, page format, and datacomm parameters are selected via an expanded control panel and stored in the printer's non-volatile memory. Once

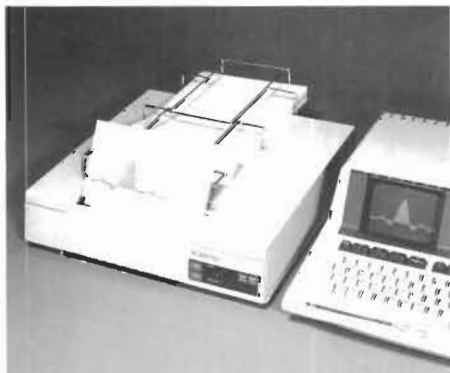
selected, these features come up automatically at printer power-on.

Print modes include expanded (5 CPI) in addition to normal and compressed. Enhancements include triple-pass printing, underlining, and character framing.

The 2673A features the full 128 USASCII character set plus six ISO national sets. JASCII, HPL, Roman Extension, and Line drawing. The six ISO national character sets include Norwegian/Danish, Swedish/Finnish, French, German, U.K., and Spanish.

Increased graphics flexibility is provided by auto-centering, windowing, and offset features. Auto-centering provides automatic horizontal centering of graphic data. Windowing allows the printing of a portion, or "window", of a larger piece of graphic data. The offset feature allows physical positioning of graphic output anywhere on a page.

The 2673A offers enhanced features and additional capabilities for applications that require text printing and graphics copy: desktop and personal computers, graphics terminals, mini-computers, small office and business systems, development stations, and test and measurement systems.



Simple binary drivers provide graphics output from personal computers.



Convenient front panel provides finger-tip control of printer functions.

Specifications

ALPHANUMERIC PRINTING

Print Speed

120 CPS bi-directional, optimized path

Character Structure

7 x 11 dot matrix character font in 9 x 15 character cell
128 USASCII character set – upper/lower case and control codes
Line Drawing character set
Roman Extension international characters (8-bit mode)
ISO international character sets (7-bit mode) (2673A)

Printing Format

10 CPI and 16.2 CPI (80 and 132 columns/line)
5 CPI (40 columns/line) (2673A)
6 lines per inch
Underlining character enhancement
Framing character enhancement (2673A)
Triple-pass mode (2673A)

RASTER GRAPHICS COPY (2671G, 2673A)

Type

Unidirectional raster graphics copy
90 dots per inch horizontal and vertical resolution
720 dots across a raster row

Output Format

Dot-for-dot copies from HP raster devices
Dot-addressable graphics can be software controlled by non-HP devices
Offsets, windowing, and auto-centering (2673A)

OUTPUT CONTROLS

General

Form feed button
Test button
Margin control
Auto-page mode (2673A)
Tabs (2673A)
Fan-fold or roll paper

Configuration

Front panel: Paper Feed, Form Feed, Self Test, and Reset buttons
Simple escape sequences control margins, print mode, character set selection
Non-volatile memory stores configuration information entered via the control panel (2673A)

Ordering Information

2671A Printer **\$1095.00 (U.S.)**

2671G Graphics Printer **\$1295.00 (U.S.)**

2673A Intelligent Graphics Printer **\$1895.00 (U.S.)**

Standard unit includes:

HP-IB interface, power cord, Owner's Manual, paper rack, and 1 pack of fan-fold paper.

Power supply voltage is user configurable to 100, 120, 220, or 240V.

Interface Options

—040 Delete HP-IB, add RS-232C serial interface (no cable) N/C
—042 Delete HP-IB, add Centronics parallel interface (no cable) N/C
—044 Delete HP-IB, add HP parallel interface (no cable) N/C
—240 HP 264X Character Terminal Interface Kit: Delete HP-IB, and HP parallel interface, 13238A Duplex Register Card and 13232J Interface Cable (2671A and 2673A) **\$120.00**

INTERFACES

HP-IB (IEEE-488), standard (2671A/2671G limited implementation)
HP 8-bit parallel (37 pin connector), optional
Centronics-compatible parallel (36 pin connector), optional
RS-232C (CCITT V.24) serial, optional (25 pin connector 2671A/G) (50 pin connector 2673A)

Input buffer: 2K characters
Receive rates: up to 9600 baud (19.2K baud on 2673A)
Transmission mode: full duplex, asynchronous
Parity: odd, even, zeroes, none
Handshakes: ENQ/ACK, X-ON/X-OFF, hardware, none

ELECTRICAL

Voltage (Switch selectable): 100, 120, 220, or 240V (+5%, -10%)

Frequency: 47.5 to 66 Hz

Power Consumption (maximum):

50 watts operating, 15 watts standby (2671A and 2671G)
75 watts operating, 30 watts standby (2673A)

DIMENSIONS

Width: 428 mm (16.9") Height: 105 mm (4.1")
Depth: 424 mm (16.7")

WEIGHT

Stand-alone:		Shipping:
2671A, 2671G	6.9 kg (15 lbs., 3 oz.)	12.7 kg (28 lbs.)
2673A	8.3 kg (18 lbs., 6 oz.)	14.1 kg (31 lbs.)

ENVIRONMENTAL

Operating Temperature:	Non-operating Temperature:
+0C to +55C	-40C to +75C
(+32F to +131F)	(-40F to +167F)
[Thermal paper limited to +40C (+104F)]	

Humidity

20% to 95% (Non-condensing)

PRODUCT SAFETY

UL Listed
CSA Certified
IEC 380 International Safety Standard Compliance

ELECTROMAGNETIC COMPATIBILITY

FCC Class B Certified Peripherals

Any questions concerning regulatory agency compliance should be directed to your local Hewlett-Packard sales office.

PAPER SUPPLIES

92160M (Blue)	Thermal Paper, Page-perforated and Fan-folded. 4 packs, 330 8.5"x11" sheets each pack.
92160N (Black)	
92160A (Blue)	Thermal Paper. 24 Rolls. 8.5"x100' each roll.
92160B (Black)	
92160C (Black)	Thermal Paper, Page-perforated. 24 rolls, 100 8.5"x11" sheets each roll.

HP thermal paper should be used to maintain HP Warranty and service contracts.

CABLES

13242G	RS-232C cable for connection of 2671A/2671G to 2620 terminals.
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Interface cables and paper may be conveniently ordered from your local Hewlett-Packard Supplies Operation

For more information, call either your local HP Sales Office or Regional Office: East (301) 948-6370 • Midwest (312) 225-9800 • South (404) 955-1500 • West (213) 877-1281. Or write to Hewlett-Packard: U.S.A.: 1507 Page Mill Road, Palo Alto, CA 94304. Europe: P. O. Box 999, 1180 AZ Amstelveen, The Netherlands. Canada: 6877 Goreway Drive, Mississauga, L4V 1M8, Ontario. Japan: YHP Ltd., Ohashi 29-21 Takaido-Higashi 3-chome, Suginami-ku, Tokyo 168.