

HEWLETT-PACKARD

LaserJet and LaserJet PLUS Printers

The Professional Printers from Hewlett-Packard



The LaserJet and LaserJet PLUS are true letter quality printers. They are fast, printing up to 8 pages per minute, and whisper quiet. The ability to mix different fonts (typesyles) on a single page as well as advanced graphics features gives the LaserJet family of printers unmatched flexibility in both personal computer and office workstation settings. In addition to the standard LaserJet features, the LaserJet PLUS offers electronic forms capabilities, more graphics per page, font downloading and macro abilities, and increased memory to meet additional personal or office printing needs. Where printing requirements range from 500-3000 pages per month, you'll find that the LaserJet and LaserJet PLUS printers are significant printing breakthroughs.

Feature Comparison

	LaserJet Printer	LaserJet PLUS Printer
Text Resolution	300 x 300 dpi	300 x 300 dpi
Character Height	Up to 14.4 pt. size	Up to 30 pt. size
Graphics Resolution (8 x 10 inch page) 75 dpi 100 dpi 150 dpi 300 dpi	Full page Half page Quarter page Sixteenth page	Full page Full page Full page Half page
Internal Fonts	Courier (10 CPI/ 12 point Portrait and Landscape)	Courier (10 CPI/ 12 point Portrait and Landscape) Compressed Line Printer (16.66 CPI/ 8.5 point Portrait)
Cartridge	Yes	Yes
Downloadable Fonts	No	Yes
Macros (User defined commands)	No	Yes
Software Forms Utilities	Cartridge-based character sets	Cartridge-based character sets; built-in rules, shading and patterns with automatic forms overlay
Downloadable Forms	No	Yes
Forms Overlay	No	Yes
User Memory	59K	360K
Total Memory	128K	512K
Hardware Interface	RS-232C/422	RS-232C/422 (Option 200) Parallel (Option 210)

LaserJet Printer Features

Excellent Print Quality

- True letter quality print
- Print resolution 300 x 300 dots-per-inch

Raster Graphics Capability

- Up to 59K Bytes of memory can be used to print raster graphics on a single page. This can be used to print single or multiple images on a page at four different resolutions (300, 150, 100, 75 dots per inch). Many current personal computer software packages take advantage of this capability.
- IBM PC screen raster graphics capability with software.
- Apple Macintosh screen raster graphics capability with software
- HP 150 screen raster graphics capability

Ideal for Office Information Systems

- Very quiet operation (<55 dBA)
- Compact desktop size
- Letter and legal size single sheet paper or envelopes
- Multiple fonts per page
- Workstation on-demand printing
- Duplex (two-sided) printing with manual feed
- Prints up to 8 pages per minute

Easy to Maintain and Operate

- Disposable EP cartridge containing the main electrophotographic components makes the printer easy to service and very reliable
- Simple preventative maintenance procedures

Font Flexibility

- Standard: Courier 10 CPI/12 point (Portrait & Landscape)
- Prints characters up to 14.4 point size
- A variety of word processing fonts in plug-in cartridges are available from HP's Direct Marketing Division
- Prints up to 8 fonts per page

Interface

- Standard RS-232C/422 Interface (300-19.2 baud)

LaserJet PLUS Printer Features

In addition to all of the features listed for the standard LaserJet printer, the LaserJet PLUS offers the advanced capabilities outlined here. Where applicable, these features replace those of the standard LaserJet. The standard LaserJet printer may easily be upgraded to a LaserJet PLUS.

Raster Graphics Capability

- Up to 360K Bytes of memory can be used to print raster graphics on a single page. This can be used to print single or multiple images on a page at four different resolutions (300, 150, 100, 75 dots per inch). Many current personal computer software packages take advantage of this capability.

HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

Forms Design

- Rules, gray shading and patterns
- Forms overlay to enable automatic forms printing
- Up to 32 forms can be stored in memory
- Downloadable macros (user defined commands for forms applications)
- Ideal for such things as tax forms, letterheads, page borders and logos

Font Flexibility

- Standard: Courier 10 CPI/12 point (Portrait & Landscape) and Compressed Line Printer 16.66 CPI/8.5 point (Portrait)
- Prints characters up to 30 point size
- Downloadable soft font capability available from disc for ease in printing multiple fonts per page
- Prints up to 16 fonts per page
- Up to 32 soft fonts can be stored in memory for increased printer sharing ability (dependent on memory used)
- Increased selection of fonts on disc

Interface

- Standard RS-232C/422 Interface (Option 200)
- Parallel Interface (Option 210)

Specifications

(LaserJet and LaserJet PLUS Printers)

Safety and Environment Compliance

- UL 478 listed
- CSA 22.2 154 Certified
- Complies with IEC 380 & IEC 435
- FCC level B.
- VDE 0836, VDE 0871B, IEC-TC76 and VBG 93 (level B)
- BRH Certified Class I Laser Product (safe for office/EDP use)

Print Capacity

- Print Speed: First page less than 18 seconds after receipt of data (22 seconds using manual feed). Subsequent pages at 8 pages per minute – print speed is application and system dependent
- Warm-Up Time: Less than two minutes from cold turn on
- Paper Tray Capacity: 100 sheets per input tray and 20 sheets per output tray
- Paper Feed: Single sheet, automatic. Two sided printing capability with manual feed for second pass. Paper stacking is done in reverse order.

Printing Process

- Dry type electrophotography

Paper

- Paper: Single sheet copier paper
- Weights: 16 to 21 lbs. (60-80 grams/square metre)
- Size: Letter (8.5 x 11 inch)
Legal (8.5 x 14 inch)
European A4 (210mm x 297mm)
European B5 (182mm x 257mm)

- Type: The printer was designed for use with high quality photocopier bond paper. The LaserJet printers can also accommodate a wide variety of special application paper, such as labels, colored and preprinted paper, as well as overhead transparency film designed for photocopiers. It is strongly recommended that all paper be tested before purchasing.

- Storage and use: Best results will be obtained if paper is kept within the listed ranges

Temperature: 17-23 degrees C (63-73 degrees F)

Relative Humidity: 40-50%

Printing

- Print Resolution: 300 x 300 dots-per-inch
- Print Orientation: Portrait (printing across the width of the page) and Landscape (printing across the length of the page)
- Optional Fonts: Additional fonts can be used by inserting a plug-in font cartridge (LaserJet and LaserJet PLUS)
- LaserJet Resident Fonts: Courier 10 CPI/12 point – Portrait and Landscape orientation
- LaserJet PLUS: Additional Line Printer 16.66 CPI/8.5 point resident font – Portrait orientation
- LaserJet PLUS: Fonts may be downloaded from discs for ease in printing multiple fonts per page and printer sharing



Printable Characters-Per-Line (Fixed Pitch)

Print Pitch	Portrait/Landscape			
	Std.	Legal	A4	B5
10	80/106	80/136	77/112	66/97
12	96/127	96/163	93/135	80/116
16.66	132/176	132/226	129/188	111/167

Printable Lines-Per-Page

Lines/Inch	Portrait/Landscape			
	Std.	Legal	A4	B5
6	62/48	80/48	66/46	56/39
8	84/63	108/63	89/61	76/52

Printable Surface

	Std.	Legal	A4	B5
Width: Inches	8.0	8.0	7.8	6.7
MM	203	203	198	170
Length: Inches	10.6	13.6	11.3	9.7
MM	269	345	287	247

Power

- Voltage/Frequencies: 115V+/-10% 60Hz
- Optional: 220V+/-10% 60Hz
240V+/-10% 60Hz
- Power Consumption at 115 VAC: 850 Watts Printing Maximum (2900 BTU/hour)

Environmental

Temperature (Printer & Cartridge)

Operating	10 to 32.5 degrees C. (50 to 91 degrees F.)
Storage	0 to 35 degrees C. (32 to 95 degrees F.)

Altitude			Audible Noise	
Operating	0 to 2,500 metres (0-8,200 feet)		Printing <55 dB(A)	Standby <45 dB(A)
Non-operating	0 to 15,000 metres (0-49,200 feet)		Physical	
Humidity			Width	47.5 cm. (18.5 inches)
Operating	20 to 80% RH		Depth (body only)	41.5 cm. (16.2 inches)
Non-Operating	10 to 80% RH		Depth (with trays)	72.3 cm. (28.2 inches)
			Height	29.3 cm. (11.4 inches)
			Weight	32 Kg. (71 pounds)

Ordering Information

LaserJet Printer	HP LaserJet 2686A	Professional PC Printer Includes: • Operator's Manual • Technical Reference Manual • 128K RAM Memory (up to 59K user memory) • Standard RS-232C/422 Interface • Image Processing Cartridge (good for about 3,000 pages) • Letter-size input and output trays • Courier 10 CPI/12 point font (Portrait and Landscape)
LaserJet PLUS Printer	Option 200 2686A	Includes everything in the standard LaserJet package, plus: • 512K Ram Memory (up to 360K user memory) • Standard RS-232C/422 Interface • Line Printer 16.66 CPI/8.5 point font (Portrait)
	Option 210 2686A	Includes everything in Option 200 except RS-232C/422 interface, plus: • Parallel Interface
Supplies and Accessories	92285A 92285B 92285C 92285D 92285E 26051A 26052A	Image Processing Cartridge Letter-size Input Paper Tray (8.5 x 11) Legal-size Input Paper Tray (8.5 x 14) A4-Size Input Paper Tray (210mm x 297mm) B5-Size Input Paper Tray (182mm x 257mm) LaserJet PLUS Upgrade Kit (to convert a standard LaserJet to LaserJet PLUS) LaserJet PLUS Parallel Interface Kit
RS-232C Cables	13242-60010 17255D 24542G 92219H 92219J	16.7-foot (5 meter) Male to Male HP 150 Cable 3.3-foot (1 meter) Male to Female IBM PC/XT Cable 10-foot (3 meter) Male to Female IBM PC/AT Cable 16-foot (5 meter) Male to Male HP 150 Cable 16-foot (5 meter) Male to Female IBM PC/XT Cable
Parallel Cables	13242D 24542D 92219K	6.6-foot (2 meter) Male to Female HP 150 Cable 6.6-foot (2 meter) Male to Male IBM PC/XT and PC/AT Cable 9-foot (2.3 meter) Male to Male IBM PC/XT and PC/AT Cable
Serial Extension Cables	92215F 92215T	50-foot (15 meter) Female to Male Cable 100-foot (30 meter) Female to Male Cable

LaserJet Printer Font Product Summary

Font Cartridges

92286A	Courier 1	92286L	Courier Portrait and Landscape
92286B	Tms Proportional 1	92286M	Prestige Elite Portrait and Landscape
92286C	International 1	92286N	Letter Gothic Portrait and Landscape
92286D	Prestige Elite	92286P	Tms Rmn Portrait and Landscape
92286E	Letter Gothic	92286Q	Memo 1
92286F	Tms Proportional 2	92286T	Tax 1
92286G	Legal Elite	92286U	Forms Portrait
92286H	Legal Courier	92286V	Forms Landscape
92286J	Math Elite	92286W	Bar Code 3-of-9/OCR-A
92286K	Math Tms		

Soft Fonts*

33411AA	Tms/Helv Base (USASCII, Hewlett-Packard 3½" disc)
33411AB	Tms/Helv Base (Roman-8, Hewlett-Packard 3½" disc)
33412AA	Tms/Helv Base (USASCII, IBM 5¼" disc)
33412AB	Tms/Helv Base (Roman-8, IBM 5¼" disc)

*Disc-based soft fonts can be used with the LaserJet PLUS printer only.

For information on fonts released after September 1985, contact your LaserJet Dealer or local HP Sales Office.

Supplies and accessories are available through Hewlett-Packard's Direct Marketing Division
Call toll free: 800-538-8787 (in California call 408-738-4133 collect)

Call your local HP Sales Office or nearest Region Office for more information: Eastern (301) 258-2000; Midwestern (312) 255-9800; Southern (404) 955-1500; Western (213) 877-1282; Canadian (416) 678-9430. Ask the operator for Hewlett-Packard computer sales, or write: Hewlett-Packard, 1820 Embarcadero Road, Palo Alto, CA 94303.

In Europe write: Hewlett-Packard GmbH, Computer Products, Herrenberger Strasse 110, D-703 Boeblingen, Postfach 1430 West Germany. In Canada write: Hewlett-Packard (Canada) Ltd., 6877 Goreway Drive, Mississauga, Ontario, Canada L4V 1M8. Elsewhere write: Hewlett-Packard Intercontinental, 3495 Deer Creek Road, Palo Alto, California 94304.