
HP PaintJet Series Color Graphics Printers



Technical Data

Versatile printers for
color graphics and text

Features

HP PaintJet Series

- Quality color graphics
- Eight primary colors and up to thousands of shades and hues
- Fast near-letter quality (NLQ) text; 167 characters per second at 10 pitch
- Disposable print cartridges for convenience and reliability
- Compatible with leading hardware and software
- **HP quality and reliability**, backed by a **one-year warranty**

HP PaintJet adds

- A4/A-size print capability
- Manual feed cut-sheet paper and film
- Sprocket feed Z-fold paper
- Affordable price, for shared or personal use



HP PaintJet XL adds

- Faster print speed (software, computer, and interface dependent)
- Automatic sheet feed for paper and transparency film—a must in shared and high-volume environments
- A4/A and A3/B print capability
- Presentation Mode, for highest-quality graphics on paper
- Transparency Mode, for top-quality printing on overhead transparency film
- Convenient front-panel controls
- Built-in image enhancement capabilities
- Large standard buffer for downloadable fonts, including the HP *Type Director* font library
- Optional *Font Cartridge* for hand-tuned CG Times, CG TriumvirateTM and Prestige Elite typefaces
- Optional *HP-GL/2 Cartridge* for HP-GL/2 compatibility (available Spring, 1990)

Graphics and Text in One

Powerful graphics. Eight primary colors and up to thousands of shades and hues, depending on your software's use of color. Add near-letter quality text, and you're looking at HP PaintJet Series color graphics printers.

Two Versatile Models

Choose from two models: the HP PaintJet color graphics printer for affordable *personal* printing, and the HP PaintJet XL for *shared* and *high-volume* use. Both are so versatile, they handle business and presentation graphics as easily as CAD, technical, and scientific applications.

The HP PaintJet color graphics printer gives you color graphics and text on A4/A-size Z-fold and cut-sheet paper. HP PaintJet prints on A4/A-size transparency film too, for powerful presentations. And its desktop size makes it a convenient personal printer for a wide range of applications.

Added speed and unattended operation make the HP PaintJet XL the printer of choice in higher volume and shared environments. You'll find its A3/B-size print capability an added advantage for printing spreadsheets and technical graphics. A built-in paper tray automatically feeds up to 200 sheets of A4/A- or A3/B-size paper and up to 70 sheets of A4/A-size transparency film. And you can manually feed non-standard media, including untrimmed ISO sizes.*

Quality Color Graphics

Thermal inkjet technology makes our fast, quality, printing possible. Micro-thermal resistors regulate ink flow to within one drop per twenty-five thousandths of a second, for printing when and where you need it. Convenient, disposable print cartridges contain the electronics *and* the ink you need to print on both paper and transparency film. That makes these printers reliable and virtually maintenance free.

HP PaintJet Series paper and print cartridges work together to control ink dot size *precisely*, while keeping pigment close to the surface for brightest colors. And they print larger dots than most color printers, spaced so closely together you won't see gaps. That's why we recommend HP paper for *top* quality.

HP PaintJet Series printers print an extra layer of dots in Transparency Mode, for eye-catching transparencies. And for the highest quality output on paper, use HP PaintJet XL's Presentation Mode. Press a button, and PaintJet XL's intelligent firmware comes into action for more consistent, even colors. Print time may take longer, but the results are *worth* it. With Presentation Mode, *you* choose the quality and speed of your output.

HP PaintJet Series printers print eight primary colors and up to thousands of color shades and hues, depending on your software's color capabilities. Supported software applications can access PaintJet XL's built-in image processing capabilities *directly*, for smoother color gradations and an even greater color palette.

The HP PaintJet color graphics printer prints an average A4/A-size page of graphics on paper in just four minutes. When teamed with a workstation or today's more powerful personal computers, the HP PaintJet XL can print the same page in 1.5 minutes or less! (Print times will vary according to image complexity, software, computer, and interface.)

Fast NLQ Text

High-speed text printing makes these printers more than *just* graphics tools. HP PaintJet and PaintJet XL print black near-letter quality text at a rapid 167 characters per second (10 characters per inch), using any of three internal fonts. The HP PaintJet prints a typical A4/A-size page of text on paper in 30 to 40 seconds. An HP PaintJet XL can print the same page in even less time! You can print text in six other primary colors, too.

*Non-standard sized media is not available from HP. Use HP PaintJet Series media for best results.

In the Windows environment, *HP Color PrintKit for Microsoft® Windows*, available February 1990, gives you 12 scalable and 16 hand-tuned fonts for the HP PaintJet and PaintJet XL. Use them to create matching printer and screen fonts in medium, bold, italic, and bold italic. Small font sizes are perfect for merged text and graphics. Larger point sizes add punch to presentation materials.

There's also an optional *Font Cartridge* for the HP PaintJet XL. It gives you hand-tuned, proportional and fixed-space CG Times, CG Triumvirate™ and Prestige Elite typefaces† in medium, bold, italic, and a variety of sizes. HP PaintJet XL's large standard buffer lets you *download* soft fonts, too—including fonts created from the HP *Type Director* font library.‡ And with the right software, you can print text in both portrait *and* landscape modes.

Enhance Your System

A choice of three interfaces (Centronics, RS-232-C, and HP-IB) makes it easy to connect an HP PaintJet Series color graphics printer to most personal computers, including the HP Vectra, IBM XT/AT and compatibles, and IBM PS/2.

Team an HP PaintJet Series printer with our interface kit for Apple® Macintosh™ Plus, SE, and II compatibility (a hard disk is required to access printer fonts).

Because it takes a powerful computer to make the most of the HP PaintJet XL's speed, it's a good match with engineering workstations, mini-computers, and personal computers with a 16 MHz (or greater) clock speed. And for *top* graphics print speed, use a parallel interface (Centronics or HP-IB).

Software Says it All

HP PaintJet Series printers are so versatile they're supported by leading PC productivity, word processing, utility, and presentation packages. PC CAD software support includes AutoCAD™, AutoShade™, VersaCAD, and CADKEY.

Apple® Macintosh users have support on leading packages, including MacDraw®, Cricket Presents, Microsoft® Word, Excel, and Power Point, and many more.

Add Power and HP-GL/2 Compatibility

We designed the HP PaintJet XL with the future in mind. We'll offer an optional *HP-GL/2 Cartridge*, for compatibility with the HP-GL/2 graphics language, in Spring 1990. When you run HP-GL/2 programs, the cartridge acts as a vector-to-raster converter. You can also use the cartridge's two megabyte page buffer to make multiple copies of your output. And for word processing, the cartridge includes the same fonts as our optional *Font Cartridge*.

Meeting Your Graphics Needs

With the addition of the HP PaintJet XL, Hewlett-Packard sets a new standard in color graphics printing.

Look to HP PaintJet Series color graphics printers when you need quality color graphics *and* text. The HP PaintJet personal printer, for A4/A-size color printing on paper and transparency film. And the HP PaintJet XL with automatic sheet feed, A3/B-size media handling, added speed and features for higher volume and shared environments. Both are so reliable, we back them with a full one-year warranty. And if you'd like a service contract after the first year, you'll pay one of the lowest prices in the industry.

HP PaintJet Series color graphics printers: versatile printers with Hewlett-Packard quality and reliability.

†CG Times is HP's Times Roman-like typeface. CG Triumvirate™ is HP's Helvetica-like typeface.

‡HP Type Director support available Spring, 1990.

Technical Information

Performance Characteristics

Printing Process	Thermal inkjet drop-on-demand printing		
Text Print Speed	167 characters per second at 10 pitch, 200 characters per second at 12 pitch		
Graphics Resolution	180 × 180 dots per inch		
Printing Format	Print Mode	Print size	Char./in. Char./line
	Courier	12 point	10 80
	Letter Gothic	12 point	12 96
	Letter Gothic	8 point	18 144
	Also bold, underline, superscript, and subscript		
Media Types	Paper, transparency film		
	HP PaintJet		HP PaintJet XL
Media Handling Capability	Manual feed: cut-sheet paper and film		Manual feed: cut-sheet paper and film
	Sprocket feed: Z-fold paper		Automatic sheet feed: cut-sheet paper and film
Media Sizes	A4/A		A4/A and A3/B*
Graphics Print Speed†			
A4/A-size paper	4 minutes or less		1.5 minutes or less
A4/A-size film	8 minutes or less		6 minutes or less (< 3 min. in Fast Mode)
A3/B-size paper	N/A		3 minutes or less
Print Cartridges	1 black, 1 multicolor		1 black, 1 cyan, 1 magenta, 1 yellow
Command Language	HP PCL I with extensions		HP PCL Level 3 with Imaging Extensions‡
Internal Character Sets	HP Roman8, PC8, PC8 (Danish/Norwegian), ECMA94, US ASCII, ISO 7-bit languages: German, French, Italian, Norwegian, Swedish, Spanish, United Kingdom		HP Roman8, PC8, PC8 (Danish/Norwegian), PC850, ECMA94, ISO 7-bit languages: German, French, Italian, Norwegian, Swedish, United Kingdom, Spanish, US ASCII
I/O Buffer Size	5 to 8 Kbytes§ (contained in I/O buffer)		17.2 Kbytes
Downloadable Font Buffer	RS-232-C/CCITT V.24 serial or Centronics parallel or HP-IB (IEEE 488-1978)		189 Kbytes**
Interface Options			Dual I/O: RS-232-C/CCITT V.24 serial and Centronics parallel or HP-IB (IEEE 488-1978)

Environmental Ranges

Temperature	
Operating	15 to 30 degrees C (59 to 86 degrees F)
Storage	-40 to 70 degrees C (-40 to 158 degrees F)
Humidity	
Paper	20 to 80% RH (at 15 to 30 degrees C)
Transparency film	20 to 70% RH (at 15 to 30 degrees C)
Acoustics, Printing (per ISO DP 7779 standard)	
Sound pressure level-Lpa††	45 dB(A)
Sound power level-Lwa	5.7 Bels(A)
Acoustics, Standby	
Sound pressure level-Lpa††	<20 dB(A)
Sound power level-Lwa	<3.6 Bels(A)

Power Requirements

Source	100, 120, 220, 240 volts AC (± 10%)	
Frequency	50-60 Hz	
Consumption	20 W maximum	65 W maximum, continuous

Physical Specifications

Height × Width × Depth	98 mm × 442 mm × 302 mm (3.86 in. × 17.40 in. × 11.89 in.)	230 mm × 750 mm × 441 mm (9.06 in. × 29.53 in. × 17.36 in.)
Net weight	5 kg (11 lb)	17.5 kg (39 lb)
Shipping weight	10.6 kg (23.3 lb)	24 kg (53 lb)

Product Certifications

CSA Certified; UL Listed; TUV GS Licensed; NEMKO Approved; IEC 950/EN 60950 Compliant; FCC Certified, Class B; VDE 0871-B/P Radio Protection Mark (FTZ 1046/84); Registered VCCI, Class 2

*Also uses intermediate paper sizes, including untrimmed ISO. (These sizes are not available from HP.)

†Output times will vary depending on image complexity, application file size, software, model of computer, and interface. Print times will be longer when Presentation Mode is used.

‡Imaging extension capability is software dependent. PCL Level 3 is compatible with HP PaintJet's programming language.

§Will vary depending on your use of downloaded characters.

**This buffer is reduced to 70 Kbytes when the HP-GL/2 Cartridge is installed.

††At 1 meter bystander position.

Ordering Information

Standard Unit

HP PaintJet, Model 3630A

Option Number:

001 RS-232-C/CCITT V.24 serial interface

002 HP-IB (IEEE 488-1978) interface

004 Centronics parallel interface

HP PaintJet XL, Model C1602A

Option Number:

1AX RS-232-C/CCITT V.24 serial interface & Centronics parallel interface

1A8 HP-IB (IEEE 488-1978) interface

Note: Interface cables must be ordered separately.

Accessories Included

HP PaintJet and PaintJet XL

User documentation

Power cord

HP PaintJet paper

HP PaintJet transparency film

Brush

HP PaintJet also includes:

Power module

Two print cartridges (black, color)

HP PaintJet XL also includes:

Four print cartridges (black, cyan, yellow, magenta)

A4/A-size media tray*

A4/A-size transparency film stacker*

Documentation holder

Accessories Available

Media

HP PaintJet and PaintJet XL:

51630Y A-size cut-sheet paper, 8.5 X 11 in., 200 sheets

51630Z A4-size cut-sheet paper, 210 mm X 297 mm, 200 sheets

51630Q A-size transparency film, 50 sheets with plastic sleeves

51630S A4-size transparency film, 50 sheets with plastic sleeves

HP PaintJet only:

51630P Z-fold paper, 8.5 X 11 in., 250 sheets

51630R Z-fold paper, 210 X 350 mm, (12 in.), 250 sheets

HP PaintJet XL only:

51631A B-size cut-sheet paper, 11 x 17 in., 200 sheets

51631B A3-size cut-sheet paper, 297 X 420 mm, 200 sheets

Print Cartridges

HP PaintJet only:

51606A Black print cartridge

51606C Color print cartridge

HP PaintJet XL only:

51606A Black print cartridge

51606B Cyan print cartridge

51606R Magenta print cartridge

51606Y Yellow print cartridge

Accessories

HP PaintJet and PaintJet XL:

17390A HP Color PrintKit for Microsoft® Windows‡

17305B HP Color PrintKit for Macintosh Computers (English)†

17306B HP Color PrintKit for Macintosh Computers (French)†

17307B HP Color PrintKit for Macintosh Computers (German)†

HP PaintJet XL only:

C1607A HP PaintJet XL Font Cartridge (CG Times, CG Triumvirate,™ and Prestige Elite typefaces)

C1608A HP-GL/2 Cartridge with two megabyte page buffer and font‡

C1609A A-size media tray (for automatic sheet feed)

C1610A A4-size media tray

C1611A B-size media handling kit (tray and 200 sheets of paper)

C1612A A3-size media handling kit (tray and 200 sheets of paper)

*Size depends on destination.

†Requires RS-232-C interface.

‡Available Spring 1990.

Interface and Cable Requirements

System	Interface	Cable
HP Vectra PC with HP 24540A/B serial/parallel interface card	Parallel	HP 92284A
HP Vectra PC with HP 24540A/B serial/parallel interface card or HP 24541A/B dual serial interface card using 9-pin connector	Serial	HP 24542G
HP Vectra PC with HP 24541A/B dual serial interface card using 25-pin connector	Serial	HP 17255M
HP Touchscreen PC	Parallel	HP 13242D
HP Touchscreen PC	Serial	HP 17255M
HP Touchscreen PC and HP 9000, Series 300	HP-IB	HP 10833A (1 m) HP 10833B (2 m) HP 10833C (4 m) HP 10833D (0.5 m)
IBM PS/2, PC, PC-XT, & compatibles	Parallel	HP 92284A
IBM PS/2, PC, PC-XT, & compatibles	Serial	HP 17255D
IBM AT & compatibles	Parallel	HP 92284A
IBM AT & compatibles	Serial	HP 24542G
Apple Macintosh Plus, SE, & II	Serial	HP 17302A§

§Included in the HP Color PrintKit for the Apple® Macintosh computers.

For your nearest authorized HP dealer in the United States, call toll-free: 1-800-752-0900. For HP regional and worldwide offices, refer to the list below:

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5201 Tollview Drive
Rolling Meadows, IL 60008
(312) 255-9800

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