HP Designjet 30 Series Printers

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Printers for creative professionals—the affordable HP Designjet 30 wide-format printing systems create fade-resistant, photo-quality images with consistent colors for professional photos, prints and proofs.

Color images that last

- **Fade-resistant, photo-quality images.** The HP Designjet 30 Series printing systems bring impressive photo quality to your images. New inks, designed together with HP Premium Plus Photo and HP Proofing Gloss papers, produce images that resist fading longer than traditionally processed photos.[1] Professionals can rest assured that the images they create will maintain their impact.

- **Rich color depth, minimal dot visibility and uniform gloss.** A six-ink writing system combines HP color layering technology, 2400 dpi maximum resolution and a four-picoliter ink drop size for fine details, smooth tonal transition, a broad gamut of colors and gloss uniformity.

- **Media that shows off your ideas.** With a wide range of HP media weights and types, you can choose the media type that best conveys your concepts. The HP Designjet 30 Series printers can handle stock in weights up to 80 lb, as well as thick or rigid media (up to .015 in). Choose from a variety of media finishes, including gloss, satin and matte.

Reliable color

- **See reliable, consistent color from print to print.** The HP Designjet 30 Series printers feature automatic closed-loop color calibration to provide consistent color, print to print and printer to printer.

- **Graphics drivers for Mac and Windows®.** Optimized drivers provide key features for creative professionals, including RGB ICC profile support and Apple ColorSync compatibility for color matching throughout your RGB workflow.

- **Optional RIPs for advanced color management.** With optional Adobe® PostScript® 3™ software RIPs, graphics customers have access to a wide array of HP color technologies, including automatic PANTONE®[2] calibration, CMYKplus support and offset emulation for robust color management in a CMYK workflow.

Time to design

- **See results and get client approval fast.** Print images up to 4 mpp for B size (11 x 17 in) in Normal mode, with fast color stability. Proofs and prints can be reviewed and approved in real time.

- **Easy setup for immediate productivity.** Set up, connection and operation are easy in both Macintosh and Windows environments. Standard interfaces and network capability (standard on 30n) ensure smooth operation in virtually all environments.

- **Less interaction means more creating.** Modular HP ink cartridges and printheads require minimal user intervention and infrequent maintenance. Reliable operation further enhances the cost-effectiveness and efficiency of this printing system.

[1] Preliminary results from tests conducted by Wilhem Imaging Research, Inc. indicate that prints made with HP 85 ink cartridges and HP Premium Plus Photo and HP Proofing Gloss paper may be displayed indoors under glass for approximately 70 years before noticeable fading and staining will occur. See www.wilhelm-research.com for details.

[2] Pantone, Inc.'s check-standard trademark for color.
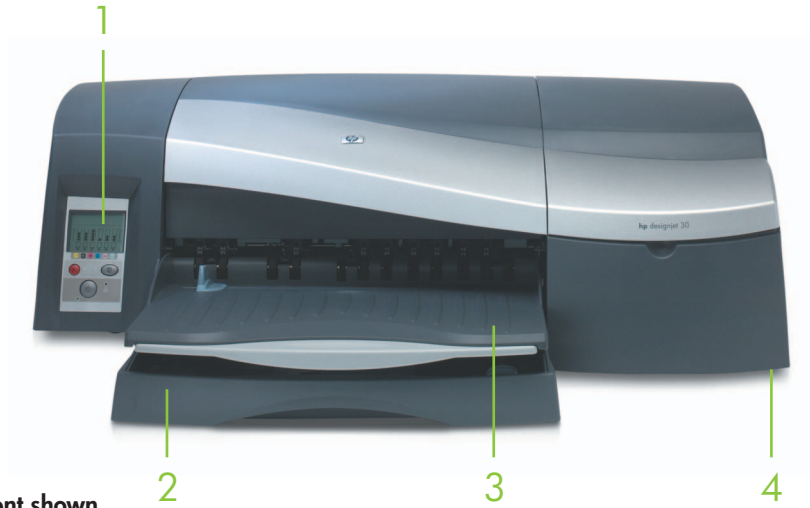
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HP Designjet 30 Series Printers

1. LCD printer status indicator for ink supply maintenance and print message alerts

2. Media tray holds up to 150 sheets of standard and custom-size media (up to 13 x 19 in)

3. Front bypass allows you to print on single sheets as small as postcards

4. Small footprint allows placement of printer on tabletop or in common work area

5. USB and parallel connections plus network capability (standard on 30n) ensure easy system integration

6. Rear bypass slot handles heavy and rigid media of weights up to 80 lb (300 g/m²)

Internal color sensor for color consistency

Fade-resistant inks with 4 pl drop size for fade-resistant, photo-quality images

Modular ink system with six independently replaceable ink cartridges allows you to replace only the ink colors you need
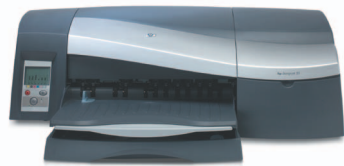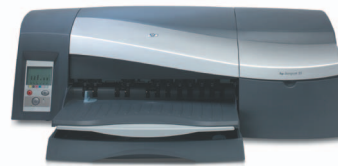
HP Designjet 30 front shown

HP Designjet 30 rear shown

Series at a glance

HP Designjet 30
- 150-sheet input tray for sheets up to 13 x 19 in
- One open EIO slot for optional network connectivity

HP Designjet 30n

All the features of the 30 model, plus:
- HP Jetdirect 620n internal EIO print server

Optional accessories
- HP Software RIP for HP Designjet 30
- EFI Designer Edition 4.0 for HP M

As a creative professional, you need more than reliability, performance and value. Your world is all about color. That's why HP has implemented technologies and solutions that deliver the color quality, consistency and control you need for a superior color experience.

Color solutions for your workflow

RGB or CMYK. Printing or proofing. Pleasing color or accurate color. With the HP Designjet 30 printing system, you can choose the solution that best fits your needs, your workflow and your environment.

HP Designjet 30 drivers

Optimized Mac and Windows drivers deliver outstanding color output for photographers or designers printing images in an RGB workflow. Support for RGB ICC profiles means you have the choice of managing color in the applications or via ICM profile or ColorSync tools. The drivers also allow you to balance color channels individually when you need one last tweak.

HP Software RIP

Designed for creatives who need color management in a CMYK workflow, this optional RIP adds the capabilities designers need to generate accurate layouts, comps or concept proofs that integrate images with text, logos or illustrations. A true Adobe PostScript 3 solution, the RIP offers complete ICC profile management, including input and output profiles, as well as automatic PANTONE®2 calibration to easily and accurately print corporate or specific colors.

EFI Designer RIP for HP M

This EFI solution is ideal for agencies and service bureaus whose workflow requires incremental production, color management or proofing capabilities. It offers in-RIP separations for the composite workflow, as well as the ability to define non-standard spot colors. It also offers job management tools including job ticket and control strip ability as well as job nesting for paper savings. You can easily emulate offset presses or other printing devices via ICC profiles, and CMYKplus support allows you to produce images perceptually consistent with offset output, but with the richer and more vibrant colors possible with a digital printer.
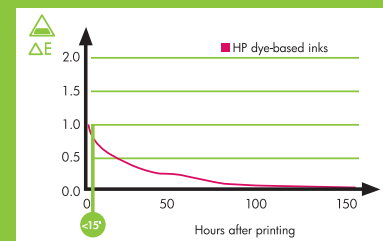
Third-party RIPs

HP has worked with virtually all the leading RIP vendors in digital photography, large-format printing and pre-press proofing fields to ensure you can choose the solution that best matches your color workflow.

Color technology by HP

Inks and media deliver fade resistance and stability
New, dye-based inks, combined together with HP papers, produce images that stabilize in minutes vs. hours and last for years. HP inks, media and printers are designed together for results that do justice to your ideas.
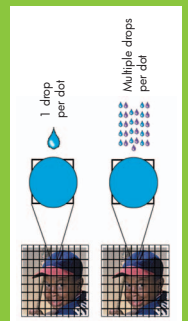

HP Designjet 30 Series printers (using HP Proofing Semi-Gloss Paper)

ΔE — HP dye-based inks

Hours after printing

HP color layering technology
Like artists creating new colors by mixing the standard paints on their palettes, multi-layering technology uses the basic CMYKcm palette to achieve a much broader range of printable colors.

By layering ultra small (4 pl) drops within a single dot, HP Designjet 30 printers produce smoother gradations between tones for virtually grain-free images.

1 drop per dot

Multiple drops per dot

Automatic color calibration
The automatic closed-loop color (CLC) calibration process enables consistent and accurate color reproduction.

The CLC process is based on measuring, via a color sensor, reflected energy from primary color tiles that are illuminated with a narrow-bond light source. The process works in much the same way as a classical densitometer. The printer generates a target, scans the pattern and adjusts based on the results.

HP Designjet 30 Series Printers

Technical specifications	HP Designjet 30 (Product number: C7790D)	HP Designjet 30n (Product number: C7790E)
Print speed, using N5 file	B size: up to 4 min/page (Normal, glossy); B size: up to 6 min/page (Best, glossy)	
Resolution, maximum	Up to 2400 x 1200 dpi	
Print margins	Top: 0.2 in; bottom: 0.47 in; left: 0.2 in; right: 0.2 in	
Memory	64 MB	
Media		
Media handling	150-sheet input tray, single sheet rear feed and 50-sheet output tray	
Types	Plain, coated, glossy and heavyweight paper; transparencies	
Weight (by paper path)	Tray 1: 17 to 40 lb; manual single-sheet feed: 17 to 40 lb; rear path: up to 80 lb	
Thickness (by paper path)	Tray 1: up to 0.008 in, envelopes up to 0.015 in; manual sheet feed: up to 0.008 in	
Media size	Postcard, letter, legal, B, B+	
Printing		
Print technology	HP Thermal Inkjet, HP color layering technology, PhotoREt IV	
Print cartridge colors	Black, cyan, magenta, yellow, light cyan, light magenta	
Ink types	Fade-resistant dye-based	
HP Professional Color technologies	Automatic color calibration, automatic PANTONE® calibration, offset simulation and CMYKplus	
Connectivity		
Interfaces	Standard: USB 1.1 (USB 2.0 compliant), Centronics parallel IEEE-1284 (ECP compliant), 1 EIO slot; optional: HP Jetdirect 620n print server for Fast Ethernet	USB 1.1 (USB 2.0 compliant), Centronics parallel IEEE-1284 (ECP compliant), 1 EIO slot, HP Jetdirect 620n print server for Fast Ethernet
Languages	Standard: PCL3-GUI RGB 24-bit Contone; optional: Adobe PostScript 3 via software RIP	
Drivers (included)	Raster driver for Mac OS (9.x, X.1, X.2, X.3), PCL3-GUI Windows® driver, Microsoft Windows drivers (95, 98, Me, NT 4.0, 2000, XP) including support for AutoCAD 2000, USB, ECP drivers	
Standard operating systems	Microsoft Windows NT 4.0 Server, 2000 Server, XP, Mac (OS 9.1, 9.2, X.2, X.3)	
Network operating systems	Microsoft Windows XP, NT 4.0 Server, 2000 Server, 2002 Server; Novell; Mac OS	
System requirements		
Minimum	**Windows:** Microsoft Windows 95, 98: Pentium® I, 133 MHz, 128 MB RAM, 300 MB available hard disk space; Microsoft Windows NT: Pentium II, 300 MHz, 128 MB RAM, 400 MB available hard disk space; Microsoft Windows 2000, 2003: Pentium II, 300 MHz, 128 MB RAM, 400 MB available hard disk space; Microsoft Windows XP: Pentium III, 733 MHz, 256 MB RAM, 400 MB available hard disk; **Mac:** iMac G3, G4, G5 dual processor, iBook, PowerBook, eMac, Mac (OS 9.1, OS X v 10.1.5): 128 MB RAM, 100 MB available hard disk space	
Recommended	**Windows:** Microsoft Windows 95, Me: Pentium II, 300 MHz, 128 MB RAM, 1 GB available hard disk space; Microsoft Windows NT: Pentium III, 733 MHz, 128 MB RAM, 2 GB available hard disk space; Microsoft Windows 2000: Pentium III, 733 MHz, 256 MB RAM, 2 GB available hard disk space; Microsoft Windows XP: Pentium IV, 1 GHz, 256 MB RAM, 2 GB available hard disk; **Mac:** Dual 1 GHz PowerPC G4, 512 MB RAM	
Dimensions		
Printer	28.5 x 17.4 x 8.8 in	
Maximum	28.5 x 21.3 x 8.8 in	
Shipping	34 x 23.3 x 15.7 in	
Weight		
Printer	27.5 lb	
Shipping	41.9 lb	
What's in the box	HP Designjet 30 printer, power cord, USB cable, printheads (6), print cartridges (6), input/output tray, macroinstaller, user documentation CD, setup poster, Quick Start Guide, media samples, customer care document	HP Designjet 30n printer, power cord, USB cable, printheads (6), HP Jetdirect 620n LAN card, print cartridges (6), input/output tray, macroinstaller, user documentation CD, setup poster, Quick Start Guide, media samples, customer care document

Environmental ranges

Operating temperature:	41 to 104° F (5 to 40° C)
Recommended operating temperature:	59 to 95° F (15 to 30° C)
Storage temperature:	-4 to 131° F (-20 to 55° C)
Operating humidity:	20 to 80% RH
Recommended humidity:	25 to 75% RH
Storage humidity:	0 to 95% RH

Acoustics

Sound pressure:	50 dB(A)
Sound pressure, standby:	39 dB(A)
Sound power:	6.4 B(A)
Sound power, standby:	5.2 B(A)

Power requirements

Input voltage:	100 to 240 VAC (± 10%), 50/60 Hz (± 3Hz), 2 amps maximum

Power consumption

Maximum:	65 watts
Standby:	18 watts

Power certification

Safety certifications:	IEC 950-compliant, EU LVD and EN60950 compliant, CSA certified for US and Canada
Electromagnetic compatibility:	Compliance for Class B products, Class A when connected to LANs, EU (EMC Directive), USA (FCC rules), Canada (DoC)
ENERGY STAR® compliant	
Warranty	One-year warranty

Ordering information

Product number	HP product
C7790D	HP Designjet 30
C7790E	HP Designjet 30n

Supplies and accessories
Ink supplies

C9420A	HP 85 cyan printhead
C9421A	HP 85 magenta printhead
C9422A	HP 85 yellow printhead
C9423A	HP 85 light cyan printhead
C9424A	HP 85 light magenta printhead
C5019A	HP 84 black printhead
C9425A	HP 85 cyan ink cartridge
C9426A	HP 85 magenta ink cartridge
C9427A	HP 85 yellow ink cartridge
C9428A	HP 85 light cyan ink cartridge
C9429A	HP 85 light magenta ink cartridge
C5016A	HP 84 black ink cartridge

Media[3]

Q5492A	HP Photo Matte B+, 50 sheets
Q5486A	HP Premium Plus Photo and Proofing Gloss B+, 25 sheets
Q5489A	HP Premium Plus Photo Satin B+, 25 sheets

Network and software

Q5671A	HP Software RIP for HP Designjet 30
J7934A	HP Jetdirect 620n print server for Fast Ethernet (30 model only)
Q6641A	EFI Designer Edition 4.0 for HP M

[3] For a complete list of all media that work with the HP Designjet 30 Series printers, please take a look at www.hp.com/media.

HP recommends Microsoft® Windows® XP Professional for mobile computing.

For more information visit our website at www.hp.com

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