

HP Designjet 820 MFP



Get powerful printing, scanning and copying with an integrated all-in-one solution. The HP Designjet 820 MFP easily handles all sorts of large format documents. The integrated design saves workspace, the intuitive operation means less user training.



HP Designjet 820 MFP

Ideal for copy shops who need an affordable, versatile multifunction device, and repro houses who require a reliable and cost effective colour production system. It is also perfect for architectural, engineering and construction companies and GIS users like cartographers, telecommunication and utility professionals, who need colour accuracy and high resolution images.

A fully integrated solution for seamless printing, scanning and copying at an affordable cost.

- Copy your large colour/black-and-white documents on a wide range of HP media up to 1067 mm (42") wide
- Make precise copies with resolution up to 2400 x 1200 dpi using HP Color Layering Technology
- Scan photos and drawings up to 1092 mm (43") wide, and up to 15.2 mm thick
- Get ultimate scan quality with 508 dpi optical and 2400 dpi enhanced resolution from 3 cameras and a line accuracy of 0.15%
- With scan speed up to 127 mm (5") per sec the HP Designjet 820 MFP delivers outstanding performance.

An intuitive and easy-to-operate device that integrates large-format printing, scanning and copying.

- Use the 15" touch-screen graphical display for simple, intuitive operation
- Get advanced copy features to streamline your job
- Enlarge or reduce images and adjust margins to create the ideal image
- Use the nesting option to save media, and make extra-large enlargements easily with the panelling option
- Save scanned files to a network folder or burn them on CD or DVD
- Communicate seamlessly across a network, using 10/100Base-T networking and TCP/IP protocols.

Get colour accuracy with integrated print-scan-copy system which connects to 3rd party applications.

- Use advanced colour management, image enhancement and calibration features to get the best copies
- HP's Calibration Wizard ensures outstanding quality in all outputs
- Use the multifunction system as a standalone device or easily plug it into your workflow
- Integrate the MFP with a variety of industry-leading third party applications such as raster-to-vector-conversion.

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1. Prints, scans and copies up to 42-inch (1067 mm) wide. Scans at an impressive speed of 1.5-inch (38 mm) per second for colour and 5-inch (127 mm) per second for mono originals, and prints up to 7.9m²/hr
2. 15-inch touch-screen graphical display for easy, intuitive operation
3. DVD/CD reader/writer to save files directly to disc
4. Built-in fast image processing for excellent copy and scan performance
5. Intuitive software provides easy-to-use scanning, copying and network printing
6. The integrated product design saves workspace
7. Print output basket for high volume batch jobs



The HP multifunctional advantage

You can count on HP superior quality and reliability with the HP Designjet 820 MFP - a single, integrated solution combining smart software with a scanner, printer, and touch-screen display for all your business needs. HP also offers a variety of support options to assist you in the set-up and maintenance of your HP Designjet 820 MFP.

Scanner

- Three digital cameras scan at a resolution of up to 2400 dpi enhanced, 508 dpi optical resolution with 0.15 % line accuracy
- Full vivid colour with 24-bit colour and 8-bit graytone
- High-speed, 200 dpi colour scanning at 1.5 inches (38 mm) per second and 200 dpi monochrome scanning at 5 inches (127 mm) per second
- Scan media up to 42 inches (1067 mm) wide and up to 0.6 inches (15.2 mm) thick, for handling oversized, heavyweight originals, even cardboard
- Color 2D Adaptive Thresholding provides colour correction and 2D-filters for colour sharpening, image softening, and blur
- Dual 2D Adaptive Gray enhancement technology produces clean, crisp scans even from poor quality originals

Software

- Preview your image for a high quality, precision job
- Copy, enlarge, reduce or adjust colours and settings, comparable or even better than your originals
- Scan to file, DVD, CD in file formats including PDF, TIFF, JPEG and CALSG4
- Print locally or print through the network to HP Designjet 500, 800, 1000, 4000, 4500, 5000, 5500 series printers
- Use the nesting option to save media
- Make enlargements easily with the paneling option
- Track your usage using the integrated accounting features

Touchscreen display

- Pentium IV, 2.6 Ghz and 23 GB of memory for scanned jobs
- Small keyboard included for easy data entry
- DVD/CD reader/writer included for efficiency and versatility
- Fast network connection (TCP/IP)

Printer

- HP Designjet 800ps printer prints up to 42 inches (1067 mm) wide on a variety of media
- Virtual computer inside, including Adobe® PostScript RIP, embedded HP-GL/2 processor, 160 MB of RAM, and a network interface
- Achieve excellent image quality with HP Color Layering Technology, up to 2400 x 1200 dpi resolution, and 0.2% line accuracy
- Fast efficient printing with speeds up to 7.9 m²/hr in fast mode
- HP smart printing technology supplies produce excellent, quality printing every time
- Replace only the ink supplies you need. Modular, individually replaceable supplies make colour cost effective
- A complete selection of media choices for the look you need

Support and service

- One-year onsite warranty
- Additional support options include physical installation with or without network configuration, three-year warranty extension, and a one-year post warranty
- 24-hour online support via www.hp.com/go/designjet provides troubleshooting tips, driver downloads, user forums, and documentation

Technical specifications

Print technology	HP ColorThermal Inkjet	
Printhead nozzles	304	
Print quality	Up to 2400 x 1200 dpi	
Colour technology	HP ColorLayering Technology	
Number of inks	Black, cyan, magenta, yellow	
Ink types	Black: HP pigment ink; Cyan, Magenta, Yellow: HP dye-based ink	
Ink drop size	18 pl (black), 4 pl (colour)	
Print speed	Economic quality: 90 sec for A1 line drawing, 7.9 m ² /hr for colour images. Productivity quality: 3.3 m ² /hr. Photo quality: 2 m ² /hr. Colour images approximate speed on HP Coated Paper, line drawings approximate speed on HP Bright White Inkjet Paper	
Line	Line accuracy: Scanner: +/- 0.15%, Printer: +/- 0.2%. Minimum width: 0.0423 mm	
Print languages	Adobe® PostScript® 3™, HP-GL/2, HP RTL, CALS G4	
Memory	Printer: 160 MB RAM, Scanner: 1 GB RAM, 23 GB Hard disc drive	
Print margins (mm)	Roll	Sheet
	top:	5 mm (with HP-GL/2 driver)
	bottom:	5 mm (with HP-GL/2 driver)
	left:	5 mm
	right:	5 mm
Media types	Paper (bond, inkjet, natural tracing paper, clear film, matte film, coated paper, heavyweight coated paper, high-gloss photo paper, semi-gloss photo paper, paper-based semi-gloss, satin poster paper, studio canvas), banners, colourfast adhesive vinyl	
Media sizes	Standard: A0 (ISO), A1 (ISO), A2 (ISO), A3 (ISO), A4 (ISO), B1 (JIS), B2 (JIS), B3 (JIS), B4 (JIS)	
Maximum media length	Roll: 45.7 m. Sheet: 1897 mm	
Maximum media width	1067 mm	
Media handling	Printer: single-sheet feed, roll feed, automatic cutter, standard bin; scanner: straight-through scan paper path for sheet and cardboard originals, all-wheel drive (contour adjustment, precision rollers)	
Scan	Technology: Sheetfed Optical resolution: Up to 508 dpi Enhanced resolution: black and white 2400 x 2400 dpi Bit-depth: 24-bit colour and 8-bit greyscale Scan speed: Colour(200 dpi): 1.5 in/sec (38 mm/sec), black & white (200 dpi): 5 in/sec (127 mm/sec). Scan to print time: 22 sec File format: TIFF, JPEG, PDF, CALS G4 Maximum scan size: 1067 mm x limited by HDD and file type	
Copy	Copy resolution: colour text and graphics: 300 x 300 dpi Reduce/enlarge: 1 to 10000%. Maximum copies: Up to 99 copies Copy settings: Type of original, image crop and align preview, best/normal/fast copy quality, enlarge/reduce, lightness, mirror copy, nesting, paneling, saturation and RGB controls, sharpen/blur, tiling	
Interface and connectivity	Standard: Printer: Centronics parallel IEEE 1284-compliant (ECP), HP Jetdirect EIO 10/100 Internal Print Server; scanner: Fast Ethernet 10/100 Base-TX network card	
Control panel	Printer: front LCD, 5 front-panel buttons; Scanner: 15" LCD touch screen	
Drivers included	Printer: Microsoft® Windows® 95, 98, ME, NT 4.0 without USB, 2000, XP, 2003 Server; Mac OS X or higher, AutoCAD™ 2000-2004, AutoCAD Release 13, 14, UNIX®: TIFF and JPEG files are accepted via ZEHRAster Plus software, supplied with the printer. Scanner: drivers for HP Designjet 500, 800, 1000, 5000, 5500, 4000 and 4500 series printers	
Software	PostScript drivers for Microsoft® Windows® 95, 98, ME, NT 4.0 without USB, 2000, XP, 2003 Server; Mac OS X or higher; HP GL/2-RTL drivers for Microsoft® Windows® (95, 98, ME, NT 4.0, 2000, XP, 2003 Server); drivers for AutoCAD™ 2000-2004, AutoCAD Release 13, 14; UNIX®, TIFF, and JPEG files are accepted via ZEHRAster Plus software; system recovery software for the scanning system including HP Macroinstaller with Windows drivers for HP Designjet 500, 800, 1000, 5000, 4000 and 4500 series printers	
Operating systems compatibility	Printer: Windows® 95, 98, NT 4.0, 2000, Me, XP home, XP Professional; Mac OS X or higher; ZEHRAster for UNIX®; Scanner: Windows 95, 98, NT 4.0, 2000, Me, XP Home, XP Professional; Mac OS X or higher; UNIX®; linux. Latest printer information and drivers available from HP Designjet Web site, http://www.hp.com/go/designjet	
Network operating systems compatibility	Printer: Novell™ NetWare v 3.11, 3.12, 4.x, 5.0; NDS; NDPS; Windows® 95, 98, NT 4.0, 2000, XP Professional; IBM™ OS/2 WARP v 3.0, 4.0; HP-UX v 10.x, 11.x; Sun Solaris™ 2.5x, 2.6; IBM AIX v 3.2.5 and higher; MPE-IX v 5.5; Mac OS X or higher; Artisoft LANtastic v 7.0; Scanner: NDPS; Windows 95, 98, NT 4.0, 2000, XP Professional; IBM OS/2 WARP v 3.0, 4.0; HP-UX v 10.x, 11.x; Sun Solaris 2.5x, 2.6; IBM AIX v 3.2.5 and higher; MPE-IX v 5.5; Mac OS X or higher	
Power	Supply: Universal power supply. Consumption: 330 watts maximum	
Dimensions (w x d x h)	Out of package: 2034 x 1040 x 1600 mm. Packaged: Printer package: 2180 x 730 x 1110 mm Scanner package: 1900 x 680 x 1565 mm	
Weight	Out of package: 183.47 kg. Packaged: Printer package: 98 kg Scanner package: 168 kg	
Operating environment	Operating temperature: 5 to 40° C. Recommended operating temperature: 18 to 32° C. Operating humidity: 20 to 80% RH. Operating humidity recommended: 25 to 75% RH. Storage temperature: -20 to 55° C. Storage humidity: 20 to 80% RH. Noise level per ISO 9296: sound power: LwAd 6.9 B(A). Sound pressure: LpAm 53 dB(A)	
Certifications	Safety: Compliant with ITE requirements including EU LVD and EN60950, UL or CSA certified for US and Canada, and others. EMC certifications: Compliant with Class A ITE requirements including EU (EMC Directive), USA (FCCrules), Canada (DoC), Australia (ACA), New Zealand (MoC), Japan (VCCI)	
Warranty	One-year, next-business-day, on-site warranty	

Ordering information

Q6685A HP Designjet 820 MFP, Fast Ethernet 10/100 Base-TX network card, printer and scanner stands, media bin, spindle, power cords, ink cartridges (4), printheads (4), roll of media, print/scan/copy software, HP Macroinstaller with Windows® drivers for HP Designjet 500, 800, 1000, 4000, 4500, 5000 and 5500 series printers, HP-GL/2, AutoCAD and PostScript drivers for Windows, PostScript driver for Macintosh, ZEHRAster Plus for UNIX, system recovery software CD, quick reference guide, setup poster, user documentation CD (interface cables must be ordered separately)

Media supplies

C6036A HP Bright White Inkjet Paper 90 g/m²-36"/914 mm x 45.7 m

C6020B HP Coated Paper 90g/m²-36"/914 mm x 45.7 m

Q1406A HP Universal Coated Paper 95 g/m²-42"/1067 mm x 45.7 m

C3875A HP Clear Film 174g/m²-36"/914 mm x 22.9 m

51642B HP Matte Film 160g/m²-36"/914 mm x 38.1 m

C6569C HP Heavyweight Coated Paper 130 g/m²-42"/1067 mm x 30.5 m

Q1428A HP Universal High-gloss Photo Paper 190 g/m²-42"/1067 mm x 30.5 m

Q1422A HP Universal Semi-gloss Photo Paper 190 g/m²-42"/1067 mm x 30.5 m

Ink supplies

C4844AE HP 10 Black Ink Cartridge

C4911A HP 82 69 ml Cyan Ink Cartridge

C4912A HP 82 69 ml Magenta Ink Cartridge

C4913A HP 82 69 ml Yellow Ink Cartridge

C4810A HP 11 Black Printhead

C4811A HP 11 Cyan Printhead

C4812A HP 11 Magenta Printhead

C4813A HP 11 Yellow Printhead

Service & support

UE189A/E Next Business Day On Site, 3 years

UE191A/E 4H 13x5 On Site, 3 years

UE180PA/PE Post Warranty Next Business Day On Site, 1 year

UE181PA/PE Post Warranty 4H 13x5 On site, 1 year

UE187E Next Business Day On Site, 4 years

UE188E Next Business Day On Site, 5 years

H4518A/E Installation & Network Configuration

For a complete list of supplies, accessories and services, please refer to <http://www.hp.com/go/designjet>

<http://www.hp.com> <http://www.hp.com/go/designjet>



Published in EMEA 04/06 4AA0-5291EEE

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