HP DesignJet Z9+ PostScript® Printer series

Professional photo prints, fast and simple. More quality with fewer inks.



*Product image may differ from actual product

AMAZING—Deliver high quality with confidence

- Impress the most demanding customers with smooth transitions and sharp details thanks to HP Pixel Control.
- No need for light inks using new high-definition HP printheads with dual drop technology.
- Achieve expanded gamut with RGB HP Vivid Photo Inks and the embedded spectrophotometer.[1]
- Get superior gloss uniformity by upgrading your printer to include HP Gloss Enhancer.[2]

FAST—Work without delays

- Cut post-processing labor time up to 20% with the first printer to include an integrated vertical trimmer.[3]
- Print up to 2.5 times faster[4] without losing quality, with 2400 nozzle-per-inch high-definition printheads.
- Spend less time on media changes and adjustments with dual roll support and automatic roll switching.[3]

SIMPLE—New tools for you and your customers

- Easily design applications from posters to banners and canvas with the HP Applications Center.[5]
- No disruption to your workflow, keep using your current RIPs, validated with HP RIP certification program.[6]
- Get remote visibility and control to better manage your print production environment with HP PrintOS.
- Enjoy one-click printing that also helps reduce media waste using HP Click printing software.[7]

This printer is intended to work only with cartridges that have a new or reused HP chip, and it uses dynamic security measures to block cartridges using a non-HP chip. Periodic firmware updates will maintain the effectiveness of these measures and block cartridges that previously worked. A reused HP chip enables the use of reused, remanufactured, and refilled cartridges. More at: http://www.hp.com/learn/ds

Messaging Footnotes

[1] Embedded in the HP DesignJet Z9+ Printer series is an i1 spectrophotometer from X-Rite. Close collaboration between HP and X-Rite ensures a reliable solution that's been thoroughly tested to meet customer demands for ease, quality, and dependability.
[2] Based on internal HP testing, comparing to HP DesignJet Z9+ series printers without gloss enhancer. HP Gloss Enhancer can be used on photo paper, with the exception of matte-finish papers. Optional upgrade available second half 2018.
[3] Vertical trimmer and dual rolls included with the HP DesignJet Z9+dr 44-in PostScript® Printer with V-Trimmer only. Up to 20% reduction in post-processing labor time based on internal HP testing compared to HP DesignJet Z9+dr series printers without built-in vertical trimmer.
[4] Based on internal HP testing. Up to 2.5 times faster printing compared to the HP DesignJet Z3200 Photo Printer series. May vary depending on print mode and media type.
[5] Requires an HP Applications Center account, Internet connection, and connected Internet-capable device. For more information, see http://www.hpapplicationscenter.com
[6] For a list of HP certified RIPs, visit: http://www8.hp.com/us/en/large-format-printers/designjet-printers/zseries-rips.html
[7] Once image is selected, one-click printing when printing the entire file without any modifications to the print settings. Applicable to PDF, JPEG, TIFF, and HP-GL/2 files.

For more information, please visit http://www.hp.com/go/designjetZ9

POWERED BY Adobe PDF Print Engine

Datasheet

Technical specifications

Print

Print speed	24-in.; Fast: 55.7 m²/hr on plain media; Normal: 13.4 m²/hr on coated media; Best: 3.5 m²/hr on glossy media; 44-in.; Fast: 71.4 m²/hr on plain media; Normal: 17.2 m²/hr on coated media; Best: 4.5 m²/hr on glossy media[1]
Print resolution	Up to 2400 x 1200 optimised dpi
Technology	HP Thermal Inkjet
Margins	Roll: 5 x 5 x 5 x 5 mm (borderless on selected media[3], or on all media with V-Trimmer[4]) Sheet: 5 x 17 x 5 x 5 mm
Ink types	Pigment-based
Print Cartridges, Number	9 (cyan, magenta, yellow, matte black, photo black, chromatic red, chromatic green, chromatic blue, grey), optional gloss enhancer
Ink drop	7/3 pl dual-drop weight (M, C, PK, CB, G); 6 pl single-drop weight (Y, CR, MK, CG)
Print cartridge volume	HP 746 Ink Cartridge: cyan, magenta, chromatic red, yellow, matte black, photo black (300 ml); HP 747 Ink Cartridge: chromatic green, chromatic blue, grey (300 ml)
Printheads	5 universal printheads (valid for all colours)
Printhead nozzles	2112 per colour; 21,120 in total
Line accuracy	±0.1%[5]
Minimum line width	0.02 mm (PDF addressable @ 1200 dpi)
Guaranteed minimum line width	0.08 mm (ISO/IEC 13660:2001(E))[6]
Color accuracy	Median < 1.6 dE2000, 95% of colors < 2.8 dE2000[7]
Short-term color stability	< 1 dE2000 in less than 5 minutes[8]
Long-term print-to-print repeatability	Average < 0.5 dE2000, 95% of colours < 1.4 dE2000[8]
Max optical density	4 L* min/2.5 D[8]

Media

Applications	Digital fine art; Exhibition and event graphics; Graphics design; Photos; Point of sale/display; Posters
Handling	Single-roll: Roll feed, rear sheet feed, media output bin, automatic horizontal cutter; Dual-roll: Two automatic roll feeds, smart roll-switching, top sheet feed, media output bin, automatic horizontal cutter and vertical trimmer (cuts all HP Z-series printer-qualified media, including most canvas)
Roll size	24-in: 279 to 610-mm; 44-in: 279 to 1118-mm
Maximum roll diameter	135 mm
Sheet size	24-in: 210 x 279 to 610 x 1676 mm 44-in: 210 x 279 to 1118 x 1676 mm
Standard media sizes supported	24-in: A4, A3, A2, A1 44-in: A4, A3, A2, A1, A0
Media Weight Recommended	80 to 500 g/m²
Media thickness (maximum)	Up to 0.8 mm
Media types	Photographic, fine art printing material, self-adhesive, banner and sign, bond and coated, backlit

Embedded controller

Memory	128 GB (virtual)[9]
Hard disk	500 GB self-encrypting
Native print languages	Adobe PostScript 3, Adobe PDF 1.7, TIFF, JPEG, CALS G4, HP-GL/2, HP-RTL

Connectivity

Interfaces	Gigabit Ethernet (1000Base-T) (802.3, 802.3u, 802.3ab); Hi-Speed USB 2.0 certified interface for direct printing from USB flash drive
Printing paths	Apple AirPrint, direct printing from USB flash drive, email printing, HP Click, HP driver for macOS, HP driver for Windows, HP driver for Linux, printing support for Chrome OS, HP Print Service Plugin for Android, HP Smart app for iOS and Android, HP SmartStream
Mobile printing features	Direct print from mobile apps on iOS, Android and Chrome OS; email printing with HP ePrint and HP Smart app for iOS and Android.
Drivers	Raster and PostScript drivers for Windows and macOS; PDF driver for Windows 8 and above
Security features	HP Secure Boot, Whitelisting, Role Based Access Control, SNMPv3, HTTPS, Secure-IPP, IPsec/Firewall, Certificates management, 802.1X, TLS 1.0/1.1/1.2, HP Web Jetadmin compatible, HP JetAdvantage Security Manager compatible, Secure Disk erase (DoD 5220.22-M), Secure File erase, self-encrypted HDD, PIN printing

Dimensions (W x D x H)

Product	24-in: 1293 x 695 x 998 mm; 44-in: 1802 x 695 x 998 mm
Shipping	24-in: 1440 x 766 x 718 mm; 44-in: 1950 x 766 x 718 mm

Weight

Product	72-98 kg
Shipping	102-137 kg

Included

What's in the box	HP DesignJet Z9+ PostScript Printer, printheads, introductory ink cartridges, printer stand and media bin, spindle, 3-in core adapter[10], quick reference guide, setup poster, power cord
HP Software and solutions	HP Click printing software, HP PrintOS, HP Web Jetadmin, HP DesignJet Utility including HP Color Center, HP Partner Link, HP JetAdvantage Security Manager (optional), HP SmartStream (optional)

Environmental ranges

Operating temperature	5 to 40ºC
Operating humidity	20 to 80% RH
Storage temperature	-25 to 55ºC

Acoustics

Sound pressure	Printing: 42-45 dB(A) (operating), 33 dB(A) (idle), <16 dB(A) (sleep)
Sound power	Printing: 6.0-6.3 B(A) (operating), 5.1 B(A) (idle), <3.4 B(A) (sleep)

Power

Consumption	<100 W (printing); <32 W (ready); <6.5 W (sleep); 0.1 W (off)
Requirements	Input voltage (auto ranging): 100-240 V (±10%), 50/60 Hz (±3 Hz), 2 A max

Certifications & Compliance

Safety	USA and Canada (CSA certified); EU (LVD and EN 60950-1 compliant); Russia, Belarus, Khazakstan (EAC); Singapore (PSB); China (CCC); Argentina (IRAM); India (BIS)
Electromagnetic	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI), Korea (KCC), South Africa (SABS)
Sustainable impact specifications	30% post-consumer recycled plastic; Free, convenient HP ink cartridge and printhead recycling with HP Planet Partners; Highest WIR Print Permanence Ratings in the Industry; ENERGY STAR® certified; EPEAT® registered
Environmental	ENERGY STAR; ErP; WEEE; RoHS (EU, China, Korea, India); REACH; EPEAT
Warranty	One-year limited hardware warranty

Ordering information

Product

HP DesignJet Z9+ PostScript Printer series

W3Z71A	HP DesignJet Z9+ 24-in PostScript Printer
W3Z72A	HP DesignJet Z9+ 44-in PostScript Printer
X9D24A	HP DesignJet Z9+dr 44-in PostScript Printer with V-Trimmer

Accessories

1QF38A	HP DesignJet 44-in Take-up Reel
2QX55A	HP Gloss Enhancer Upgrade Kit
5EK00A	HP HD Pro 2 42-in Scanner
5EK01A	HP SD Pro 2 44-in Scanner
8SW00A	HP SmartStream USB Preflight Manager
8SW00AAE	HP SmartStream Preflight Manager
8SW01A	HP SmartStream Print Controller USB for HP DesignJet Printers
8SW01AAE	HP SmartStream Print Controller for HP DesignJet Printers
CN538A	HP DesignJet 3-in Core Adapter
CQ783A	HP DesignJet 24-in Spindle
Q6709A	HP DesignJet 44-in Spindle

Original HP printing supplies

P2V25A	HP 746 DesignJet Printhead
P2V78A	HP 746 300-ml Magenta DesignJet Ink Cartridge
P2V79A	HP 746 300-ml Yellow DesignJet Ink Cartridge
P2V80A	HP 746 300-ml Cyan DesignJet Ink Cartridge
P2V81A	HP 746 300-ml Chromatic Red DesignJet Ink Cartridge
P2V82A	HP 746 300-ml Photo Black DesignJet Ink Cartridge
P2V83A	HP 746 300-ml Matte Black DesignJet Ink Cartridge
P2V84A	HP 747 300-ml Chromatic Green DesignJet Ink Cartridge
P2V85A	HP 747 300-ml Chromatic Blue DesignJet Ink Cartridge
P2V86A	HP 747 300-ml Gray DesignJet Ink Cartridge
P2V87A	HP 747 300-ml Gloss Enhancer DesignJet Ink Cartridge

Use Original HP inks and printheads, and HP large format printing materials, to experience consistent high quality and reliable performance that enable less downtime. These critical components are designed and engineered together as an optimized printing system, and Original HP inks are designed to maximize the life of HP printheads. Protect your HP printer investment by using Original HP inks for full HP warranty protection. For more information, visit https://hp.com/go/OriginalHPinks

Original HP large format printing materials

HP Universal Instant-dry Satin Photo Paper (FSC® certified)[11] (Recyclable)[12]
HP Artist Matte Canvas
HP Heavyweight Coated Paper (FSC® certified)[11] (Recyclable)[12]
HP Everyday Matte Polypropylene (Recyclable)[12]
HP Premium Matte Photo Paper (FSC® certified)[11] (Recyclable)[12]

For the entire HP Large Format Printing Materials portfolio, please see HPLFMedia.com.

Service and Support

U9ZC1E HP 3 year Next Business Day plus Defective Media Retention Support for HP DesignJet Z9+ 24-in PostScript Printer
U9ZA6E HP 3 year Next Business Day plus Defective Media Retention Support for HP DesignJet Z9+ 44-in PostScript Printer
U9ZF7E HP 3 year Next Business Day plus Defective Media Retention Support for HP DesignJet Z9+dr 44-in PostScript Printer with V-Trimmer

HP Support Services offer installation and extended support services (e.g. 2, 3, 4, and 5 years). For more information, please visit http://www.hp.com/go/cpc

Specification Footnotes

[1] Maximum rate of output for colour image 100% colour coverage. Printed on maximum roll size, with Original HP Vivid Photo Inks.
[2] Mechanical printing time with Original HP Vivid Photo Inks. Measured on a 44-in printer.
[3] Borderless printing available on photo gloss, photo satin, polypropylene, and backlit roll media.
[4] Except self-adhesive vinyls and non-cuttable medias.
[5] ±0.1% of the specified vector length or ±0.2 mm (whichever greater) at 23ºC, 50-60% relative humidity, on A0 HP Matte Film in Best or Normal mode with HP Vivid Photo Inks.
[6] Measured on HP Matte Film.
[7] ICC absolute colourimetric accuracy on HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks.
[8] With HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks.
[9] Based on 4 GB RAM.
[10] Not included in the box for 24-in models.
[11] BMG trademark license code FSC®-C115319, see http://www.fsc.org . HP trademark license code FSC®-C017543, see http://www.fsc.org . Not all FSC®-certified products are available in all regions.
[12] Recyclable HP papers can be recycled through commonly available recycling programs, or according to region-specific practices, or can be returned through the HP Large Format Media take-back program. Recycling programs may not exist in your area. See http://www.HPLFMedia.com/hp/ecosolutions for details.

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