# HP DesignJet Z9+ PostScript® Printer series

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



### 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]

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

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

[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.

# Technical specifications

## Print

| | |
|---|---|
| Print speed | 24-in:<br>Fast: 55.7 m²/hr on plain media<br>Normal: 13.4 m²/hr on coated media<br>Best: 3.5 m²/hr on glossy media<br>44-in:<br>Fast: 71.4 m²/hr on plain media<br>Normal: 17.2 m²/hr on coated media<br>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])<br>Sheet: 5 x 17 x 5 x 5 mm |
| Ink types | Pigment-based |
| Ink drop | 7/3 pl dual-drop weight (M, C, PK, CB, G); 6 pl single-drop weight (Y, CR, MK, CG) |
| 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) |
| 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

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|---|---|
| Handling | Single-roll: Roll feed, rear sheet feed, media output bin, automatic horizontal cutter<br>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<br>44-in: 279 to 1118-mm |
| Sheet size | 24-in: 210 x 279 to 610 x 1676 mm<br>44-in: 210 x 279 to 1118 x 1676 mm |
| Standard sheets | 24-in: A4, A3, A2, A1<br>44-in: A4, A3, A2, A1, A0 |
| Grammage | 80 to 500 g/m² |
| Thickness | Up to 0.8 mm |
| Applications | Digital fine art; Exhibition and event graphics; Graphics design; Photos; Point of sale/display; Posters |
| Memory | 128 GB (virtual)[9] |
| Hard disk | 500 GB self-encrypting |

## Connectivity

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|---|---|
| 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 |
| Native print languages | Adobe PostScript 3, Adobe PDF 1.7, TIFF, JPEG, CALS G4, HP-GL/2, HP-RTL |
| 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 |
| Drivers | Raster and PostScript drivers for Windows and macOS<br>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)

| | |
|---|---|
| Printer | 24-in: 1293 x 695 x 998 mm<br>44-in: 1802 x 695 x 998 mm |
| Shipping | 24-in: 1440 x 766 x 718 mm<br>44-in: 1950 x 766 x 718 mm |

## Weight

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|---|---|
| Printer | 72-98 kg |
| Shipping | 102-137 kg |
| 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), HP SmartTracker (optional) |

## Environmental ranges

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

## Acoustics

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|---|---|
| Sound pressure | 42-45 dB(A) (operating), 33 dB(A) (idle), <16 dB(A) (sleep) |
| Sound power | 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 |

## Certification

| | |
|---|---|
| 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 B requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI), Korea (KCC), South Africa (SABS) |
| Environmental | ENERGY STAR; ErP; WEEE; RoHS (EU, China, Korea, India); REACH; EPEAT |
| Warranty | One-year limited hardware warranty |

# Ordering information

## Product

| | |
|---|---|
| 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 |
| 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 |
| 8SW11A | HP SmartTracker USB for DesignJet |
| 8SW11AAE | HP SmartTracker for DesignJet |
| CN538A | HP DesignJet 3-in Core Adapter |
| CQ783A | HP DesignJet 24-in Spindle |
| G6H50B | HP SD Pro 44-in Scanner |
| N7P47AA | HP USB 3.0 to Gigabit LAN Adapter |
| 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 hp.com/go/OriginalHPinks.

## Original HP large format printing materials

Q6581A HP Universal Instant-dry Satin Photo Paper (FSC® certified)[11] (Recyclable)[12] 1067 mm x 30.5 m (42 in x 100 ft)

E4J57A HP Artist Matte Canvas 1118 mm x 15.2 m (44 in x 50 ft)

C6569C HP Heavyweight Coated Paper (FSC® certified)[11] (Recyclable)[12] 1067 mm x 30.5 m (42 in x 100 ft)

CH025A HP Everyday Matte Polypropylene, 2 Pack (Recyclable)[12] 1067 mm x 30.5 m (42 in x 100 ft)

CG460B HP Premium Matte Photo Paper (FSC® certified)[11] (Recyclable)[12] 914 mm x 30.5 m (36 in x 100 ft)

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

# ECO highlights

- ENERGY STAR® certified[1], EPEAT® registered as environmentally preferable product[2]
- Breakthrough color consistency can help reduce unnecessary reprints
- Printer made from 30% post-consumer recycled plastic; free HP printing supplies recycling[3]
- FSC®-certified papers[4], range of recyclable HP media with a take-back program[5]

Please recycle large-format printing hardware and printing supplies. Find out how at our website: http://www.hp.com/ecosolutions

[1] ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.
[2] EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country.
[3] Program availability varies. Please check http://www.hp.com/recycle for details.
[4] 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.
[5] HP Large Format Media take-back program availability varies. Some recyclable HP papers can be recycled through commonly available recycling programs. Recycling programs may not exist in your area. See http://www.HPLFMedia.com/hp/ecosolutions for details.

[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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