Datasheet

HP DesignJet Z6 PostScript® Printer series

High-definition prints, fast and secure. More quality with fewer inks.



PRECISE—Clearly distinguish subtle details

- Read details more clearly and see high-contrast colour with new high-definition HP printheads.
- No need for light inks with HP's dual drop technology.
- Get smooth gradients, even for challenging colour combinations, with HP Pixel Control.
- Work with water- and fade-resistant prints, indoors and out, with HP Vivid Photo Inks.[1]

FAST—Work without delays

- Handle even the most complex files with powerful processing architecture and the Adobe PDF Print Engine.[2]
- Cut maps to different sizes in fewer steps with the first printer including an integrated vertical trimmer.[3]
- Print up to 20% faster[4] with 2400 nozzle-per-inch, high-definition HP printheads.
- Spend less time on media changes and adjustments with dual roll support and automatic roll switching.[3]

SECURE—Protect your work and your information

- Protect printers/data from unauthorized access with HP Secure Boot, whitelisting, and encrypted hard disk.
- Protect documents, preserve confidentiality with authentication solutions like PIN printing, card readers.[5]
- Secure your printers with HP JetAdvantage Security Manager; manage your fleet remotely with HP Web Jetadmin.

For more information, please visit http://www.hp.com/go/designjetZ6

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] Performance may vary based on writing system differences. Print permanence estimates by HP Image Permanence Lab based on the same formulation of HP Vivid Photo Inks used with the HP DesignJet Z6200 Photo Production Printer, using 6 inks. Water resistance performance varies based on printer and print profile. Water resistance testing by HP Image Permanence Lab on a range of HP media and follows ISO 18935 method. Display permanence rating for interior displays/away from direct sunlight by HP Image Permanence Lab on a range of HP media. For more information, see http://www.HPLFMedia.com/printpermanence
[2] The Adobe PDF Print Engine (APPE) is Adobe's high speed, high fidelity print platform. Version 4 extends APPE's leading edge for print reproduction with new performance efficiencies and breakthrough rendering features. APPE 4 enables printers to increase workflow efficiency and capitalize on the profit potential of innovations in inkjet print technology. To learn more, visit https://www.adobe.com/products/pdfprintengine.html
[3] Vertical trimmer and dual rolls included with the HP DesignJet Z6dr 44-in PostScript® Printer with V-Trimmer only.
[4] Based on internal HP testing. Up to 20% faster printing compared to the HP DesignJet Z2600 PostScript® Printer and HP DesignJet Z5600 PostScript® Printer. May vary depending on print mode and media type.
[5] Card reader functionality enabled through optional third-party solutions.

Technical specifications

Print	
Print speed	24-in: Fast: 66.9 m²/hr on plain media Normal: 15.2 m²/hr on coated media Best: 7.9 m²/hr on glossy media 44-in: Fast: 80.5 m²/hr on plain media Normal: 18.8 m²/hr on coated media Best: 9.7 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
Ink drop	7/3 pl dual-drop weight (M, C, PK); 6 pl single-drop weight (Y, CR, MK)
Printheads	3 universal printheads (valid for all colours)
Printhead nozzles	2112 per colour; 12,672 in total
Line accuracy	±0.1%[5]
Minimum line width	0.02 mm (PDF addressable @ 1200 dpi)
Short-term color stability	< 1 dE2000 in less than 5 minutes[7]
Long-term print-to-print repeatability	Average < 0.5 dE2000, 95% of colours < 1.4 dE2000[7]
Max optical density	4 L* min/2.5 D[7]
Media	
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
Sheet size	24-in: 210 x 279 to 610 x 1676 mm 44-in: 210 x 279 to 1118 x 1676 mm
Standard sheets	24-in: A4, A3, A2, A1 44-in: A4, A3, A2, A1, A0
Grammage	80 to 500 g/m²
Thickness	Up to 0.8 mm
Applications	Banners; Exhibition and event graphics; Light boxes - film; Maps; Orthophotos; Point of sale/display; Posters
Memory	128 GB (virtual)[8]
Hard disk	500 GB self-encrypting
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
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 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 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	
Printer	66-96 kg
Shipping	97-132 kg
What's in the box	HP DesignJet Z6 PostScript Printer, printheads, introductory ink cartridges, printer stand and media bin, spindle, 3-in core adapter[9], 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	
Operating temperature	5 to 40ºC
Operating humidity	20 to 80% RH
Storage temperature	-25 to 55ºC
Acoustics	
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	
T8W15A	HP DesignJet Z6 24-in PostScript Printer
T8W16A	HP DesignJet Z6 44-in PostScript Printer
T8W18A	HP DesignJet Z6dr 44-in PostScript Printer with V-Trimmer

Accessories	
1QF38A	HP DesignJet 44-in Take-up Reel
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
8SW11A	HP SmartTracker USB for DesignJet
8SW11AAE	HP SmartTracker for DesignJet
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

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)[10] (Recyclable)[11] 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)[10] (Recyclable)[11] 1067 mm x 30.5 m (42 in x 100 ft)
CH025A HP Everyday Matte Polypropylene, 2 Pack (Recyclable)[11] 1067 mm x 30.5 m (42 in x 100 ft)
CG460B HP Premium Matte Photo Paper (FSC® certified)[10] (Recyclable)[11] 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	
U9WQ0E	HP 3 year Next Business Day plus Defective Media Retention Support for HP DesignJet Z6 24-in PostScript Printer
U9YZ1E	HP 3 year Next Business Day plus Defective Media Retention Support for HP DesignJet Z6 44-in PostScript Printer
U9ZE2E	HP 3 year Next Business Day plus Defective Media Retention Support for HP DesignJet Z6dr 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 colour 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] With HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks.
[8] Based on 4 GB RAM.
[9] Not included in the box for 24-in models.
[10] 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.
[11] 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.

© Copyright 2023 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

gb-en June 2023