Data sheet

HP Designjet Z6800 Photo Production Printer

Fastest 60-in graphics production printer with unrivaled print quality[1]

Designed for speed and productivity

- Print as fast as 1500 ft^2/hr (140 m^2/hr) in fast mode and 212 ft^2/hr (20 m^2/hr) in high-quality mode[2]
- Cut turnaround times and effortlessly handle large data loads thanks to high file-processing power
- Create quality prints at top speed with HP Double Swath Technology and the HP Optical Media Advance Sensor
- Confidently print unattended thanks to heavy media rolls, 775-ml HP ink cartridges, and a built-in take-up reel

Unrivaled color and black-and-white image quality

- Print exceptional colors—HP Vivid Photo Inks with a chromatic red offer a wide color gamut and uniform gloss
- Create unique black-and-white prints—three shades of black HP ink deliver rich density and smooth transitions
- Offer your customers durable prints that last up to 200 years, using HP Vivid Photo Inks[3]
- Produce posters, photos, canvas prints, backlit signs, POP displays, and maps with unrivaled image quality

Advanced color management backed by HP reliability

- Create custom ICC profiles and achieve color accuracy with the embedded spectrophotometer and color center[4]
- Achieve color accuracy —complete coverage of SWOP, ISO, GRACOL, 3DAP, EUROSCALE, TOYO, and FOGRA gamuts
- Choose how you want to print—send jobs right from your preferred design applications or through third-party RIPs
- Gain color reliability with HP Professional PANTONE® color emulation and embedded Adobe® PostScript®/PDF[5]

Eco Highlights

- Breakthrough color consistency can help reduce unnecessary reprints
- Free, convenient HP ink cartridge and printhead recycling[1]
- FSC®-certified papers,[2] range of recyclable HP media with a take-back program[1]
- ENERGY STAR® qualified and EPEAT Bronze registered[3]

ENERGY STAR   epeat BRONZE

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1   Program availability varies. Please check hp.com/recycle for details.
2   BMG trademark license code FSC®-C115319, see fsc.org. HP trademark license code FSC®-C017543, see fsc.org. Not all FSC®-certified products are available in all regions.
3   EPEAT registered where applicable/supported. See epeat.net for registration status by country.

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

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1   Compared with large-format inkjet printers under $25,000 USD for graphic applications. Based on the fastest-rated color speeds as published by manufacturers as of October 2013. Test methods vary.
2   Using plain paper and fast mode, the HP Designjet Z6800 Photo Production Printer can achieve speeds up to 1500 ft^2/hr (140 m^2/hr). Using glossy paper and normal mode, the Z6800 can achieve print speeds up to 212 ft^2/hr (20 m^2/hr).
3   Display permanence rating for interior displays/away from direct sunlight by HP Image Permanence

Lab, and by Wilhelm Imaging Research, Inc. on a range of HP media. For more information, see globalBMG.com/hp.
4   Embedded in this HP Designjet Printer 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.
5   HP Professional PANTONE color emulation and embedded Adobe PostScript/PDF upgrade kit sold separately.

1. With Aurasma installed, please go to the HP Designjet channel at http://auras.ma/s/ke25m
2. Without Aurasma installed, please download it:
    a. Google Play - http://auras.ma/s/android
    b. Apple Store - http://auras.ma/s/ios
    Once done, go to the HP Designjet channel at http://auras.ma/s/ke25m
3. Open the application and point to the image to view the HP Designjet video

Technical specifications

Print	Maximum print speed[6]	140 m²/hr (1500 ft²/hr) on plain media
	Color images[7]	Best: 3.2 min/page on A1/D or up to 13.1 m²/hr (141 ft²/hr) on glossy media Normal: 2.1 min/page on A1/D or up to 19.7 m²/hr (212 ft²/hr) on glossy media
	Print resolution	Up to 2400 x 1200 optimized dpi
	Margins	5 x 5 x 5 x 5 mm (0.2 x 0.2 x 0.2 x 0.2 in)
	Ink types	Pigment-based
	Technology	HP Thermal Inkjet
	Ink cartridges	Chromatic red, magenta, yellow, light cyan, light gray, light magenta, matte black, photo black
	Line accuracy	+/- 0.1%[8]
	Minimum line width	0.02 mm (0.0008 in) (HP-GL/2 addressable)
	Guaranteed minimum line width	0.067 mm (0.0026 in) (ISO/IEC 13660:2001(E)) [9]
Image quality	Color accuracy	Median < 1.19 dE2000, 95% of colors < 2.77 dE2000[10]
	Short term color stability	< 1 dE2000 in less than 5 minutes[11]
	Long term print-to-print repeatability	Average < 0.5 dE2000, max < 1 dE2000[11]
	Maximum optical density	4.5 L* min/2.31 D[12]
Media	Handling	Roll feed, automatic cutter, take-up reel
	Media types	Bond and coated paper, technical paper, film, photographic paper, proofing paper, backlit, self-adhesive, banner and sign, fabric, fine art printing material
	Size	279 to 1524-mm (11 to 60-in) rolls
	Thickness	Up to 0.56 mm (22 mil)
Applications		Posters, Banners, Mockups, Photos, Digital fine art, Proofs, Displays, POP/POS, Light boxes – film, Exhibition, Event graphics
Memory		64 GB (virtual)[13], 320 GB hard disk
Connectivity	Interfaces (standard)	Gigabit Ethernet (1000Base-T), EIO Jetdirect accessory slot
	Print languages (standard)	HP-GL/2, HP-RTL, CALS G4
	Print languages (optional)	Adobe PostScript 3, Adobe PDF 1.7, TIFF, JPEG
	Printing paths	Printer driver, HP Embedded Web Server
	Drivers (included)	HP-GL/2, HP-RTL drivers for Windows; PostScript Windows and Mac drivers with optional PostScript/PDF Upgrade Kit
Dimensions (w x d x h)	Printer	2430 x 690 x 1370 mm (95.7 x 27.2 x 53.9 in)
	Shipping	2700 x 750 x 1200 mm (106.3 x 29.5 x 47.2 in)
Weight	Printer	190 kg (419 lb)
	Shipping	252 kg (555.6 lb)
What's in the box		HP Designjet Z6800 Photo Production Printer, spindle, printheads, introductory ink cartridges, maintenance cartridge, printer stand, take-up reel, 3-in spindle adaptor kit, quick reference guide, setup poster, startup software, power cord
Environmental ranges	Operating temp.	-20 to 55 C (-4 to 131 F)
	Storage temp.	-20 to 55 C (-4 to 131 F)
	Operating humidity	20 to 80% RH
Acoustic	Sound pressure	53 dB(A) (printing); 39 dB(A) (ready); 39 dB(A) (sleep)
	Sound power	7.0 B(A) (printing); 5.5 B(A) (ready); 5.5 B(A) (sleep)
Power	Consumption	270 watts (printing); 420 watts (maximum); < 48 watts (ready); < 5 watts (sleep); < 0.3 watts (off)
	Requirements	Input voltage (auto ranging): 100 to 127 VAC (+/- 10%), 5 A; 220 to 240 VAC (+/- 10%), 3 A; 50/60 Hz (+/- 3 Hz)
Certification	Safety	USA and Canada (CSA certified), EU (LVD and EN 60950-1 compliant), Russia (GOST), Singapore (PSB), China (CCC), Argentina (IRAM), Mexico (NYCE), Korea (KATS)
	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 (KC)
	Environmental	ENERGY STAR 2.0, WEEE, RoHS (EU, China, Korea, India), REACH, EPEAT Bronze
Warranty		One-year limited hardware warranty

[6] Mechanical printing time. Printed in Fast mode with HP Vivid Photo Inks.
[7] Mechanical printing time. Printed with HP Vivid Photo Inks.
[8] +/- 0.1% of the specified vector length or +/- 0.2 mm (whichever greater) at 23 C (73 F), 50-60% relative humidity, on A0/E HP Matte Film in Best or Normal mode with HP Vivid Photo Inks.
[9] Measured on HP Matte Film.
[10] absolute Colorimetric accuracy with HP Vivid Photo Inks.
[11] With HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks, right after calibration.
[12] With HP Premium Instant-dry Gloss Photo Paper with HP Vivid Photo Inks.
[13] Based on 1 GB RAM. Expandable to 1.5 GB RAM through a Designjet qualified SODIMM included only in the optional HP Designjet PostScript®/PDF Upgrade Kit accessory.
[14] in select US channels only

Ordering information

Product	F2S72A	HP Designjet Z6800 60-in Photo Production Printer
Accessories	CQ654C	HP Designjet HD Scanner
	CQ745B	HP Designjet PostScript/PDF Upgrade Kit
	CQ754A	HP Designjet 60-in Spindle
	J8025A	HP Jetdirect 640n Print Server
	Q6714A	HP Designjet 60-in Media Bin
	Q6715A	HP Designjet User Maintenance Kit
Original HP printheads	CE017A	HP 771 Matte Black and Chromatic Red Designjet Printhead
	CE018A	HP 771 Magenta and Yellow Designjet Printhead
	CE019A	HP 771 Light Magenta and Light Cyan Designjet Printhead
	CE020A	HP 771 Photo Black and Light Gray Designjet Printhead
Original HP ink cartridges and maintenance supplies	B6Y15A	HP 771A 775-ml Matte Black Designjet Ink Cartridge
	B6Y17A	HP 771A 775-ml Magenta Designjet Ink Cartridge
	B6Y18A	HP 771A 775-ml Yellow Designjet Ink Cartridge
	B6Y20A	HP 771A 775-ml Light Cyan Designjet Ink Cartridge
	B6Y21A	HP 771A 775-ml Photo Black Designjet Ink Cartridge
	B6Y22A	HP 771A 775-ml Light Gray Designjet Ink Cartridge
	B6Y39A	HP 771A 3-pack 775-ml Matte Black Designjet Ink Cartridge
	B6Y41A	HP 771A 3-pack 775-ml Magenta Designjet Ink Cartridge
	B6Y42A	HP 771A 3-pack 775-ml Yellow Designjet Ink Cartridge
	B6Y44A	HP 771A 3-pack 775-ml Light Cyan Designjet Ink Cartridge
	B6Y45A	HP 771A 3-pack 775-ml Photo Black Designjet Ink Cartridge
	B6Y46A	HP 771A 3-pack 775-ml Light Gray Designjet Ink Cartridge
	C1Q21A	HP 773A 775-ml Matte Black Designjet Ink Cartridge[14]
	C1Q23A	HP 773A 775-ml Magenta Designjet Ink Cartridge[14]
	C1Q24A	HP 773A 775-ml Yellow Designjet Ink Cartridge[14]
	C1Q26A	HP 773A 775-ml Cyan Designjet Ink Cartridge[14]
	C1Q27A	HP 773A 775-ml Photo Black Designjet Ink Cartridge[14]
	C1Q28A	HP 773A 775-ml Light Gray Designjet Ink Cartridge[14]
	CH644A	HP 771 Designjet Maintenance Cartridge
Original HP large format printing materials	Q8000A	HP Premium Instant-dry Satin Photo Paper (FSC® certified)[15][16] 1524 mm x 30.5 m (60 in x 100 ft)
	Q6578A	HP Universal Instant-dry Gloss Photo Paper (FSC® certified)[15][16] 1524 mm x 30.5 m (60 in x 100 ft)
	Q8707A	HP Artist Matte Canvas 1524 mm x 15.2 m (60 in x 50 ft)
	Q8750A	HP Premium Vivid Colour Backlit Film [17] 1524 mm x 30.5 m (60 in x 100 ft)

Service and support

H4518E	HP Installation Service with Network Setup
U1ZS8E	HP 2 years Next Business Day Onsite Support with DMR*
U1ZS9E	HP 3 years Next Business Day Onsite Support with DMR*
U1ZT0E	HP 5 years Next Business Day Onsite Support with DMR*
U1ZT2PE	HP 1 years Post Warranty, Next Business Day Onsite Support with DMR*
U1ZT1PE	HP 2 years Post Warranty, Next Business Day Onsite Support with DMR*
U1XV4E	HP Preventive Maintenance Service

* Defective Media retention keeps your sensitive data safe. To comply with security regulations you can keep the defective hard-drive or data-retentive memory component while getting a new replacement disk or memory.

HP Designjet Support Services offer solutions for business critical environments— installation, extended support and maintenance, as well as variety of value-added services. For more information, please visit hp.com/go/designjet/support

Use HP Vivid Photo Inks and printheads to experience consistent high-quality and reliable performance that enable less downtime and increased productivity. These critical printing system components are designed and engineered together to provide optimized efficiency, a wide color gamut, and prints with over 200 years fade resistance.[18] For more information, visit hp.com/go/OriginalHPinks

For the entire HP Large Format Printing Materials portfolio, please see globalBMG.com/hp

[15] BMG trademark license code FSC®-C115319, see fsc.org. HP trademark license code FSC®-C017543, see fsc.org. Not all FSC®-certified products are available in all regions.
[16] North America, recyclable in consumer collection systems that can accept mixed paper (may not be recyclable in your area).
[17] Large Format HP Media take-back program availability varies. Recycling programs may not exist in your area. See hp.com/recycle for details.
[18] Display permanence rating for interior displays/away from direct sunlight, under glass by HP Image Permanence Lab and/or by Wilhelm Imaging Research, Inc. on a range of HP media with Original HP inks. See globalBMG.com/hp

For more information, please visit
hp.com/go/DesignjetZ6800