Datasheet

HP DesignJet Z6810 Production Printer series

The fastest high-quality production printing solution[1]

IMPRESSIVE – Meet high-quality expectations

- Help your customers stand out from impactful photos to detailed maps/line drawings, with optimised printheads.
- Avoid rework with consistent, accurate colour across prints and printers, with embedded spectrophotometer.[3]
- Meet your customers' expectations for precise colours with HP Professional PANTONE® colour emulation.[4]

PRODUCTIVE – Increase your production volumes

- Accommodate production peaks with print speeds up to 19.7 m²/h (212 ft²/h) on glossy and 140 m²/h (1506.9 ft²/h) on plain paper.[5]
- Handle more jobs with 500 GB hard disk capacity.
- Work without interruption with long media rolls, 775-ml HP ink cartridges, and a built-in take-up reel.

RELIABLE – No need to change the way you work

- Seamlessly integrate with the market-leading RIPs, enabled by HP's RIP certification program.[2]
- Turn operator efficiency into operating profit with HP SmartStream job preparation and processing software.
- Easily create content and submit jobs using the HP Applications Center.[6]
- 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/designjetz6810

Dynamic security enabled printer. Only intended to be used with cartridges using an HP original chip. Cartridges using a non-HP chip may not work, and those that work today may not work in the future. More at: http://www.hp.com/go/learnaboutsupplies

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[1] Compared with large-format photo inks inkjet printers under €25,000 for graphics applications. Based on the fastest-rated colour speeds as published by manufacturers as of June, 2017. Test methods vary.
[2] For a list of HP Certified RIPs, visit: http://www8.hp.com/us/en/large-format-printers/designjet-printers/zseries-rips.html.
[3] Embedded in the HP DesignJet Z6810 Production 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.
[4] HP Professional PANTONE® color emulation and Adobe PostScript®/PDF upgrade kit sold separately.
[5] Using glossy paper and Normal mode, HP DesignJet Z6810 Production Printers can achieve print speeds up to 19.7 m²/h (212 ft²/h). Using plain paper and Fast mode, HP DesignJet Z6810 Production Printers can achieve speeds up to 140 m²/h (1506.9 ft²/h).
[6] Requires an HP Applications Center account, internet connection, and connected internet-capable device. For more information, see http://www.hpapplicationscenter.com.
[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	42-in: Fast-Economode: 113.6 m²/hr (1225 ft²/hr) on plain media Normal: 21.9 m²/hr (236 ft²/hr) on coated media Best: 11 m²/hr (118 ft²/hr) on glossy media 60-in: Fast-Economode: 140 m²/hr (1500 ft²/hr) on plain media Normal: 26.3 m²/hr (283 ft²/hr) on coated media Best: 13.1 m²/hr (141 ft²/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
Ink types	Pigment-based
Printheads	8 (2x matte black/chromatic red, 2x magenta/yellow, 2x light magenta/cyan, 2x photo black/light gray)
Printhead nozzles	2112 per colour
Line accuracy	±0.1%
Minimum line width	0.02 mm (HP-GL/2 addressable)
Color accuracy	Median < 1.25 dE2000, 95% of colours < 2.75 dE2000[6]
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 < 1.25 dE2000[7]
Max optical density	4.5 L* min/2.31 D[7]

Media

Handling	Roll feed, automatic horizontal cutter, media bin[2], take-up reel[3]
Roll size	42-in: 279 to 1067 mm 60-in: 279 to 1524 mm
Grammage	80 to 500 g/m²
Thickness	Up to 0.6 mm
Applications	Exhibition and event graphics; Graphics design; Indoor posters; Layouts and comps; Light boxes - paper; Line drawings; Maps; Office Graphics; Orthophotos; Photo maps; Point of sale/display; POP/POS; Posters; Presentations; Renderings; Schematics; Technical presentations
Memory	64 GB (virtual)[4]
Hard disk	500 GB

Connectivity

Interfaces	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
Drivers	Raster driver for Windows PostScript driver for Windows and macOS with optional PostScript/PDF Upgrade Kit
Security features	SNMPv3, Control Panel lock levels, Certificates management, IPsec, SSL, Secure file erase, Secure disk erase

Dimensions (w x d x h)

Printer	42-in: 1970 x 690 x 1370 mm (77.5 x 27.2 x 53.9 in) 60-in: 2430 x 690 x 1370 mm (95.7 x 27.2 x 53.9 in)
Shipping	42-in: 2280 x 735 x 1200 mm (89.8 x 28.9 x 47.2 in) 60-in: 2684 x 750 x 1200 mm (105.6 x 29.5 x 47.2 in)

Weight

Printer	42-in: 123 kg (271 lb) 60-in: 190 kg (419 lb)
Shipping	42-in: 177 kg (390.2 lb) 60-in: 222 kg (489.4 lb)
What's in the box	HP DesignJet Z6810 Production Printer; Spindle; Printheads; Introductory ink cartridges; Maintenance cartridge; Printer stand; Media bin[2]; Take-up reel[3]; 3-in spindle adapter kit; Quick reference guide; Setup poster; Startup software; Power cord
HP Software and solutions	Free: HP Applications Center, HP Click, printer drivers, HP DesignJet Utility including HP Color Center, HP Partner Link Pay-per-use, HP Web JetAdmin Pay: HP SmartStream

Environmental ranges

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

Acoustics

Sound pressure	53 dB(A) (operating), 39 dB(A) (idle), 39 dB(A) (sleep)
Sound power	7.0 B(A) (operating), 5.5 B(A) (idle), 5.5 B(A) (sleep)

Power

Consumption	270 W (printing); < 48 W (ready); < 5.3 W (sleep); < 0.3 W (off)
Requirements	Input voltage (auto ranging): 100-127 V (±10%), 5 A; 220-240 V (±10%), 3 A; 50/60 Hz (±3 Hz)

Certification

Safety	EU (LVD and EN 60950-1 compliant); Russia (GOST)
Electromagnetic	Compliant with Class A requirements, including: EU (EMC Directive)
Environmental	ENERGY STAR; WEEE; RoHS (EU); REACH; EPEAT Bronze
Warranty	One-year limited hardware warranty

Ordering information

Product

2QU12A	HP DesignJet Z6810 42-in Production Printer
2QU14A	HP DesignJet Z6810 60-in Production Printer

Accessories

5EK00A	HP HD Pro 2 42-in Scanner
CQ754A	HP Designjet Z6200 60-in Spindle
Q6714A	HP DesignJet 60-in Media Bin
Q6715A	HP DesignJet User Maintenance Kit
CQ752A	HP DesignJet Z6200 1067mm Take-Up Reel
CQ745B	HP DesignJet PostScript/PDF Upgrade Kit
L3J69AAE	HP SmartStream Preflight Manager
L3J79AAE	HP SmartStream Print Controller for HP DesignJet Z6xx0 Production Printers

Original HP printing supplies

P2V97A	HP 774 Matte Black/Chromatic Red DesignJet Printhead
P2V98A	HP 774 Light Magenta/Cyan DesignJet Printhead
P2V99A	HP 774 Magenta/Yellow DesignJet Printhead
P2W00A	HP 774 Photo Black/Light Gray DesignJet Printhead
P2W02A	HP 774 775-ml Chromatic Red DesignJet Ink Cartridge
C1Q37A	HP 773C 775-ml Matte Black DesignJet Ink Cartridge
C1Q39A	HP 773C 775-ml Magenta DesignJet Ink Cartridge
C1Q40A	HP 773C 775-ml Yellow DesignJet Ink Cartridge
C1Q41A	HP 773C 775-ml Light Magenta DesignJet Ink Cartridge
C1Q42A	HP 773C 775-ml Cyan DesignJet Ink Cartridge
C1Q43A	HP 773C 775-ml Photo Black DesignJet Ink Cartridge
C1Q44A	HP 773C 775-ml Light Gray DesignJet Ink Cartridge
CH644A	HP 771 DesignJet Maintenance 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

CH027A HP Everyday Matte Polypropylene, 2 Pack 1524 mm x 30.5 m (60 in x 100 ft)
E4J58B HP Artist Matte Canvas 1524 mm x 15.2 m (60 in x 50 ft)
Q6630B HP Super Heavyweight Plus Matte Paper (FSC® certified)[8] (Recyclable)[9] 1524 mm x 30.5 m (60 in x 100 ft)
Q8000A HP Premium Instant-dry Satin Photo Paper (FSC® certified)[8] (Recyclable)[9] 1524 mm x 30.5 m (60 in x 100 ft)
Q8750A HP Premium Vivid Color Backlit Film 1524 mm x 30.5 m (60 in x 100 ft)

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

Service and Support

U9WE3E HP 3 year Next Business Day plus Defective Media Retention Support for HP DesignJet Z6810 42-in Production Printer
U9ZH4E HP 3 year Next Business Day plus Defective Media Retention Support for HP DesignJet Z6810 60-in Production Printer

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

ECO highlights

- ENERGY STAR® certified[1], EPEAT® Bronze registered as environmentally preferable product[2]
- Breakthrough colour consistency can help reduce unnecessary reprints
- Free, convenient HP ink cartridge and printhead 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] Mechanical printing time with Original HP Vivid Photo Inks.
[2] Not included in the box for 60-in models.
[3] Not included in the box for 42-in models.
[4] Based on 1 GB RAM.

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Solutions Store

topconsolutions.com
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