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 optimized printheads.

- Avoid rework with consistent, accurate color across prints and printers, with embedded spectrophotometer.[3]

- Meet your customers' expectations for precise colors with HP Professional PANTONE® color emulation.[4]

PRODUCTIVE—Increase your production volumes

- Accommodate production peaks with print speeds up to 212 ft²/hr on glossy and 548 ft²/hr 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

Technical specifications

Print

Max print speed	140 m²/hr[1] (1500 ft²/hr[1]) on plain media
Color images	Normal: 1.5 min/page[2] on A1/D or up to 26.3 m²/hr[1] (283 ft²/hr[1]) on coated media Best: 3.2 min/page[2] on A1/D or up to 13.1 m²/hr[1] (141 ft²/hr[1]) on glossy media
Print resolution	Up to 2400 x 1200 optimized dpi
Technology	HP Thermal Inkjet
Margins	Roll: 5 x 5 x 5 x 5 mm (0.2 x 0.2 x 0.2 x 0.2 in) Sheet:
Ink types	Pigment-based
Ink cartridges	8 (magenta, yellow, matte black, photo black, chromatic red, cyan or light cyan, light gray, light magenta)
Printheads	8 (2x matte black/chromatic red, 2x magenta/yellow, 2x light magenta/cyan, 2x photo black/light gray)

Image quality

Color accuracy	Median < 1.25 dE2000, 95% of colors < 2.75 dE2000[3]
Short-term color stability	< 1 dE2000 in less than 5 minutes[4]
Long-term print-to-print repeatability	Average < 0.5 dE2000, 95% of colors < 1.25 dE2000[4]
Max optical density	4.5 L* min/2.31 D[4]

Media

Handling	Roll feed, automatic horizontal cutter, media bin[5], take-up reel[6]
Roll size	42-in: 280 to 1067 mm; 60-in: 280 to 1524 mm;
Grammage	80 to 500 g/m²
Thickness	Up to 0.6 mm (Up to 22 mil)
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)[7]; 500 GB hard disk

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 drivers for Windows and macOS; PostScript drivers 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; 60-in: 2430 x 690 x 1370 mm
Shipping	42-in: 2280 x 735 x 1200 mm; 60-in: 2684 x 750 x 1200 mm

Weight

Printer	42-in: 123 kg; 60-in: 190 kg
Shipping	42-in: 177 kg; 60-in: 222 kg
What's in the box	HP DesignJet Z6810 Production Printer, spindle, printheads, introductory ink cartridges, maintenance cartridge, printer stand, media bin[5], take-up reel[6], 3-in spindle adapter kit, quick reference guide, setup poster, startup software, power cord
Software included	Printer drivers, HP Click, HP Applications Center, HP DesignJet Utility including HP Color Center

Environmental ranges

Operating temperature	5 to 40ºC
Operating humidity	20 to 80% RH

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	USA and Canada (CSA certified); EU (LVD and EN 60950-1 compliant); Russia (GOST); Singapore (PSB); China (CCC); Argentina (IRAM); Mexico (NYCE); Korea (KC)
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 (MSIP)
Environmental	ENERGY STAR; WEEE; RoHS (EU, China, Korea, India); 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

Q6715A	HP DesignJet User Maintenance Kit
CQ754A	HP DesignJet 60-in Spindle
Q6714A	HP DesignJet 60-in Media Bin
G6H51B	HP HD Pro 42-in Scanner
J8025A	HP Jetdirect 640n Print Server
CQ745B	HP DesignJet PostScript/PDF Upgrade Kit
L3J69AAE	HP SmartStream Preflight Manager
L3J79AAE	HP SmartStream Print Controller for HP DesignJet Z6x0 Production Printers

Printhead & Maintenance Cartridge

P2V97A	HP 774 Matte Black/Chromatic Red DesignJet Printhead
P2V98A	HP 774 Light Magenta/Light Cyan DesignJet Printhead
P2V99A	HP 774 Magenta/Yellow DesignJet Printhead
P2W00A	HP 774 Photo Black/Light Gray DesignJet Printhead
CH644A	HP 771 DesignJet Maintenance Cartridge

Original HP printing supplies

Product Description	774	771B 1-Pack	771B 3-Pack	773B 1-Pack
775-ml Chromatic Red DesignJet Ink Cartridge	P2W02A			
775-ml Chromatic Red DesignJet Ink Cartridges 3-pack	P2W04A			
775-ml Magenta DesignJet Ink Cartridge		B6Y01A	B6Y25A	C1Q31A
775-ml Yellow DesignJet Ink Cartridge		B6Y02A	B6Y26A	C1Q32A
775-ml Light Cyan DesignJet Ink Cartridge		B6Y04A	B6Y28A	
775-ml Light Magenta DesignJet Ink Cartridge		B6Y03A	B6Y27A	C1Q33A
775-ml Light Gray DesignJet Ink Cartridge		B6Y06A	B6Y30A	C1Q36A
775-ml Photo Black DesignJet Ink Cartridge		B6Y05A	B6Y29A	C1Q35A
775-ml Matte Black DesignJet Ink Cartridge		B6X99A	B6Y23A	C1Q29A
775-ml Cyan DesignJet Ink Cartridge				C1Q34A

Original HP large format printing materials

Q8000A	HP Premium Instant-dry Satin Photo Paper (FSC® certified)[8] (Recyclable)[9] 1524 mm x 30.5 m (60 in x 100 ft)
Q6578A	HP Universal Instant-dry Gloss Photo Paper (FSC® certified)[8] (Recyclable)[9] 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)
Q8750A	HP Premium Vivid Colour Backlit Film 1524 mm x 30.5 m (60 in x 100 ft)
Y3Z20A	HP Everyday Blockout Display Film 1524 mm x 30.5 m (60 in x 100 ft)

Service and **support**

U7VC0E	HP Installation Service High Level
U9WE3E	HP 3 year Next Business Day with Defective Media Retention Support for HP DesignJet Z6810 42in
U9ZH4E	HP 3 year Next Business Day with Defective Media Retention Support for HP DesignJet Z6810 60in
U9WE5E	HP 5 year Next Business Day with Defective Media Retention Support for HP DesignJet Z6810 42in
U9ZH6E	HP 5 year Next Business Day with Defective Media Retention Support for HP DesignJet Z6810 60in
U9WE6PE	HP 1 year Post Warranty, Next Business Day with Defective Media Retention Support for HP DesignJet Z6810 42in
U9ZH7PE	HP 1 year Post Warranty, Next Business Day with Defective Media Retention Support for HP DesignJet Z6810 60in

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/designjetsupport**.

Use **Original HP inks** 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**.

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

Eco Highlights

- ENERGY STAR® certified[1], EPEAT® Bronze registered as environmentally preferable product[2]
- Breakthrough color 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
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.

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[1] Maximum rate of output for color image 100% color coverage. Printed in Economode, on HP Bright White Inkjet Paper (bond), maximum roll size, with Original HP Vivid Photo Inks. Measured on a 60-in printer.

[2] Mechanical printing time with Original HP Vivid Photo Inks. Measured on a 60-in printer.

[3] ICC absolute colorimetric accuracy on HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks.

[4] With HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks.

[5] Not included in the box for 60-in models.

[6] Not included in the box for 42-in models.

[7] Based on 1 GB RAM.

[8] 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.

[9] 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.