Data sheet

HP DesignJet Z6810 Photo Production Printer

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
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: hp.com/go/learnaboutsupplies

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[1] Compared with large-format photo inks inkjet printers under $25,000 USD for graphics applications. Based on the fastest-rated color speeds as published by manufacturers as of June, 2017. Test methods vary.
[2] For a list of HP certified RIPs, visit: 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 212 ft²/hour. Using plain paper and Normal mode, HP DesignJet Z6810 Production Printers can achieve speeds up to 548 ft²/hour.
[6] Requires an HP Applications Center account, Internet connection, and connected Internet-capable device. For more information, see 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	Maximum 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 283 ft²/hr[1] (26.3 m²/hr[1]) on coated media Best: 3.2 min/page[2] on A1/D or up to 141 ft²/hr[1] (13.1 m²/hr[1]) on glossy media
	Print resolution	Up to 2400 x 1200 optimized dpi
	Technology	HP Thermal Inkjet
	Margins	0.2 x 0.2 x 0.2 x 0.2 in (5 x 5 x 5 x 5 mm)
	Ink types	Pigment-based
	Ink cartridges	8 (cyan, magenta, yellow, matte black, photo black, chromatic red, light gray, light magenta)
	Printheads	8 (cyan, magenta, yellow, matte black, photo black, chromatic red, light gray, light magenta)
Image quality	Color accuracy	Median < 1.25 dE2000, 95% of colors < 2.75 dE2000[3]
	Short term color stability	< 1 dE2000 less than 5 minutes[4]
	Long term print-to-print repeatability	Average < 0.5 dE2000, 95% of colors < 1.25 dE2000[4]
	Maximum 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: 11 to 42 in; 60-in: 11 to 60 in; (42-in: 280 to 1067 mm; 60-in: 280 to 1524 mm)
	Grammage	Up to 460 g/m²
	Thickness	Up to 22 mil (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)[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 (included)	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: 77.5 x 27.2 x 53.9 in (1970 x 690 x 1370 mm) 60-in: 95.7 x 27.2 x 53.9 in (2430 x 690 x 1370 mm)
	Shipping	42-in: 89.8 x 28.9 x 47.2 in (2280 x 735 x 1200 mm) 60-in: 105.6 x 29.5 x 47.2 in (2684 x 750 x 1200 mm)
Weight	Printer	42-in: 271 lb (123 kg); 60-in: 419 lb (190 kg)
	Shipping	42-in: 390.2 lb (177 kg); 60-in: 489.4 lb (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: 41 to 104˚F (5 to 40˚C)
		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); < 48 watts (ready); < 5.3 watts (sleep); < 0.3 watts (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

[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 fsc.org. HP trademark license code FSC®-C017543, see 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 HPLFMedia.com/hp/ecosolutions for details.

Ordering information

Product	2QU12A	HP DesignJet Z6810 42-in Production Printer
	2QU14A	HP DesignJet Z6810 60-in Production Printer
Accessories	G6H51B	HP HD Pro 42-in 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
	L3J69AAE	HP SmartStream Preflight Manager
	L3J79AAE	HP SmartStream Print Controller for HP DesignJet Z6x0 Production Printers
	CQ752A	HP DesignJet 42-in Take-up Reel
	CQ752A	HP DesignJet 42-in Spindle
	CQ752A	HP SD Pro 44-in Scanner
Original HP printheads	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
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
	B6Y19A	HP771A 775-ml Light Magenta DesignJet Ink Cartridge
	B6Y20A	HP771A 775-ml Light Cyan DesignJet Ink Cartridge
	B6Y21A	HP771A 775-ml Photo Black DesignJet Ink Cartridge
	B6Y22A	HP771A 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
	B6Y43A	HP 771A 3-pack 775-ml Light Magenta 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
	P2W02A	HP 774 Chromatic Red Ink Cartridge
	P2W04A	HP 774 Chromatic Red Ink Cartridge - 3 pack
	CH644A	HP 771 DesignJet Maintenance Cartridge
Original HP large format printing materials	Q8000A	HP Premium Instant-dry Satin Photo Paper (FSC® certified)[8] [9] 60 in x 100 ft (1524 mm x 30.5 m)
	Q6578A	HP Universal Instant-dry Gloss Photo Paper (FSC® certified)[8] [9] 60 in x 100 ft (1524 mm x 30.5 m)
	E4J58B	HP Artist Matte Canvas 60 in x 50 ft (1524 mm x 15.2 m)
	Q8750A	HP Premium Vivid Colour Backlit Film [9] 60 in x 100 ft (1524 mm x 30.5 m)
	Y3Z20A	HP Everyday Blockout Display Film 60 in x 100 ft (1524 mm x 30.5 m)

Service and support

U9WE3E	HP 3 year Next Business Day plus Defective Media Retention Support for 42in HW
U9WE5E	HP 5 year Next Business Day plus Defective Media Retention Support for 42in HW
U9WE6PE	HP 1 year Post Warranty, Next Bus Day plus Defective Media Retention Support 42in HW
U9WE7PE	HP 2 year Post Warranty, Next Bus Day plus Defective Media Retention Support 42in HW
H4518E	HP Network Installation Service for Mid-range and High-end DesignJet
U9ZH4E	HP 3-year Next Business Day + Defective Media Retention support for 60in HW
U9ZH6E	HP 5-year Next Business Day + Defective Media Retention support for 60in HW
U9ZH7PE	HP 1-year Post Warranty Next Bus Day + Defective Media Retention support for 60in HW
U9ZH8PE	HP 2-year Post Warranty Next Bus Day + Defective Media Retention support for 60in HW

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 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. For more information, visit hp.com/go/OriginalHPinks.

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

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[3]
- ENERGY STAR® qualified. Registered EPEAT Bronze[4] for environmentally preferable product

[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] 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 HPLFMedia.com/hp/ecosolutions for details.
[4] 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