HP DesignJet Z6810 60-in Production Printer (2QU14A)

Overview

The fastest high-quality production printing solution[1]

Achieve impressive results to meet your customers' high-quality expectations. Accommodate production peaks and handle more jobs to increase your production volumes. Use your current RIPs[2] and enjoy new tools that help you simplify your workflow.

IMPRESSIVE—Meet high-quality expectations

Help your customers stand out from impactful photos to detailed maps/line drawings, with optimized printheads.

RELIABLE—No need to change the way you work

Seamlessly integrate with the market-leading RIPs, enabled by HP's RIP certification program.[2]

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]

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[1] Compared with large-format photo inks inkjet printers under $10,000 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: https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c07798647

[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.

Specifications

Print quality color (best)	Up to 2400 x 1200 optimized dpi
Functions	Print
Connectivity, standard	Gigabit Ethernet (1000Base-T); EIO Jetdirect accessory slot
Connectivity, optional	HP Jetdirect EIO print servers
Software included	Printer drivers, HP Click, HP Applications Center, HP DesignJet Utility including HP Color Center
Energy star certified	Yes
Minimum dimensions (W x D x H)	2430 x 690 x 1370 mm
Minimum dimensions (W x D x H)	95.7 x 27.2 x 53.9 in
Weight	190 kg
Weight	419 lb
Power consumption	270 W (printing); < 48 W (ready); < 5.3 W (sleep); < 0.3 W (off)
Environmental certification	ENERGY STAR; WEEE; RoHS (EU, China, Korea, India); REACH; EPEAT Bronze
What's in the box	HP DesignJet Z6810 60-in Production Printer, spindle, printheads, introductory ink cartridges, maintenance cartridge, printer stand, take-up reel, 3-in spindle adapter kit, quick reference guide, setup poster, startup software, power cord
Manufacturer Warranty	One-year limited hardware warranty

Additional specifications

Accessories	CQ745B HP DesignJet PostScript/PDF Upgrade Kit;CQ754A HP DesignJet 60-in Spindle;G6H51B HP HD Pro 42-in Scanner;G6H50B HP SD Pro 44-in Scanner;J8025A HP Jetdirect 640n Print Server;L3J69AAE HP SmartStream Preflight Manager;L3J79AAE HP SmartStream Print Controller for HP DesignJet Z6xx0 Production Printers;L3J71AAE HP SmartStream Preflight Manager One-Year Subscription;Q6714A HP DesignJet 60-in Media Bin;Q6715A HP DesignJet User Maintenance Kit
Acoustic power emissions (active, printing)	7.0 B(A) (operating), 5.5 B(A) (idle), 5.5 B(A) (sleep)
Acoustic pressure emissions	53 dB(A) (operating), 39 dB(A) (idle), 39 dB(A) (sleep)
Additional information about HP	http://www.hp.com
Additional information about HP in the countries	hp.com
Color Stability	< 1 dE2000 in less than 5 minutes[2]
Color Stability Note	With HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks.
Color accuracy	Median < 1.25 dE2000, 95% of colors < 2.75 dE2000[2]
Color accuracy note	ICC absolute colorimetric accuracy on HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks.
Color(s) of printing supplies	Magenta, yellow, matte black, photo black, chromatic red, cyan or light cyan, light gray, light magenta
Datasheet photo 1	AHID/dcfe17d069b02cb775c57e5cffcc54da1b534ec4
Electromagnetic compatibility	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)
Finished output handling	Roll feed, automatic horizontal cutter, media bin (optional), take-up reel
Guaranteed minimum line width	0.0026 in (ISO/IEC 13660:2001(E))
Guaranteed minimum line width	0.067 mm (ISO/IEC 13660:2001(E))
Guaranteed minimum line width footnote	Measured on HP Matte Film
Guaranteed minimum line width footnote	Measured on HP Matte Film
Ink types	Pigment-based
Internal Storage	500 GB
Line accuracy	±0.1%
Line accuracy note	±0.1% of the specified vector length or ±0.2 mm (whichever greater) at 23ºC (73ºF), 50-60% relative humidity, on A0/E HP Matte Film in Best or Normal mode with HP Vivid Photo Inks
Maximum optical density (black)	4.5 L* min/2.31 D[2]
Maximum optical density footnote (black)	With HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks.

Media sizes standard (metric rolls)	279 to 1524 mm
Media sizes standard (sheets, rolls)	11 to 60 in
Media thickness	Up to 22 mil
Media thickness (metric)	Up to 0.6 mm
Media types	Bond and coated paper, technical paper, film, photographic paper, proofing paper, backlit, self-adhesive, banner and sign, fabric, fine art printing material
Media weight, recommended	80 to 500 g/m²
Media width, maximum	60 in
Media width, maximum	1524 mm
Memory	64 GB file processing (based on 1 GB RAM)
Model size	1524 mm
Model size	60 in
Network ready	Standard
Non-printable area (roll media)	5 x 5 x 5 x 5 mm
Non-printable area (roll media)	0.2 x 0.2 x 0.2 x 0.2 in
Number of print cartridges	8 (magenta, yellow, matte black, photo black, chromatic red, cyan or light cyan, light gray, light magenta)
Operating humidity range	20 to 80% RH
Operating temperature range	5 to 40ºC
Operating temperature range	41 to 104ºF
Optional printer languages	Adobe PostScript 3; Adobe PDF 1.7; TIFF; JPEG
Package dimensions (W x D x H)	2684 x 750 x 1200 mm
Package dimensions (W x D x H)	105.6 x 29.5 x 47.2 in
Package weight	489.4 lb
Package weight	222 kg
Power	Input voltage (auto ranging): 100-127 V (±10%), 5 A; 220-240 V (±10%), 3 A; 50/60 Hz (±3 Hz)
Print Technology	Ink
Print cartridge volume delivered	775 ml
Print head nozzles	2112 per color
Print heads	8 (2x matte black/chromatic red, 2x magenta/yellow, 2x light magenta/cyan, 2x photo black/light gray)
Print languages	HP-GL/2, HP-RTL, CALS G4
Print repeatability	Average < 0.5 dE2000, 95% of colors < 1.25 dE2000[2]
Print repeatability note	With HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks.

Print speed	Fast-Economode: 140 m²/hr on plain media; Normal: 26.3 m²/hr on coated media; Best: 13.1 m²/hr on glossy media[1]
Print speed	Fast-Economode: 1500 ft²/hr on plain media; Normal: 283 ft²/hr on coated media; Best: 141 ft²/hr on glossy media[1]
Print speed color image (best, glossy paper)	13.1 m²/hr[1]
Print speed color image (best, glossy paper)	141 ft²/hr[1]
Print speed color image (normal, coated paper)	26.3 m²/hr[1]
Print speed color image (normal, coated paper)	283 ft²/hr[1]
Print speed color image (normal, glossy paper)	19.7 m²/hr[1]
Print speed color image (normal, glossy paper)	212 ft²/hr[1]
Print technology	HP Thermal Inkjet
Print time color image ISO N5 (best, D glossy paper)	3.2 min/page[2]
Print time color image ISO N5 (best, metric A1 glossy paper)	3.2 min/page[2]
Print time color image ISO N5 (draft, A1 coated paper)	18 sec/page[2]
Print time color image ISO N5 (draft, D coated paper)	18 sec/page[2]
Print time color image ISO N5 (normal metric A1 coated paper)	1.5 min/page[2]
Print time color image ISO N5 (normal metric A1 glossy paper)	2.1 min/page[2]
Print time color image ISO N5 (normal, D coated paper)	1.5 min/page[2]
Print time color image ISO N5 (normal, D glossy paper)	2.1 min/page[2]
Printer drivers included	Raster driver for Windows; PostScript driver for Windows and macOS with optional PostScript/PDF Upgrade Kit
Product logos	ENERGY STAR; EPEAT Bronze; Gold IPv6 Ready; i1 Color Technology; PANTONE* Digital Color; Windows 10 Compatible
Recommended media	HP Everyday Matte Polypropylene;HP Artist Matte Canvas;HP Super Heavyweight Plus Matte Paper (FSC® certified)[3] (Recyclable)[4];HP Premium Instant-dry Satin Photo Paper (FSC® certified)[3] (Recyclable)[4];HP Premium Vivid Color Backlit Film
Roll external diameter	170 mm
Roll external diameter	6.7 in
Roll maximum input	1

Roll maximum weight	55 lb
Roll maximum weight	25 kg
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)
Security features	SNMPv3, Control Panel lock levels, Certificates management, IPsec, SSL, Secure file erase, Secure disk erase
Storage temperature range	-4 to 131ºF
Storage temperature range	-20 to 55ºC
Supported Primary 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
Technology logo, print 1	AHID/7dcdc088aa2dfba77edeeee2a3532e2750270af0
Technology logo, print 2	AHID/a8707d2e9a26f08852874c5e73983308eab74b0c
Technology logo, print 3	AHID/93a68b8d94fd3b1ed6cdc04da868ac9d4e2a7fdd
Technology logo, print 4	AHID/7dd1fab03b56b0736cb73329b53d542f8c74700a
Technology logo, print 5	AHID/50f2579767f95971e279228282cc0452a86d8bf2
Technology logo, print 6	AHID/b9dcf1190459bbac1f1f6ca5b6b3b5efc1178efb
Theoretical minimum line width	0.0008 in (HP-GL/2 addressable)
Theoretical minimum line width	0.02 mm (HP-GL/2 addressable)
UNSPSC code	43212104
UPC number	(ABG) 192018992047; (B19) 192018992016; (B1K) 192018992023; (BCD) 192018992030
Web address for additional information	http://www.hp.com/go/designjetz6810

Services

HP Care Pack Services

★ : Recommended

Graphics Solutions Care Pack Services

HP 2 year Next Business Day Onsite HW Support w/Defective Media Retention for DesignJet Z6810-60	**U9ZH3E ★**
HP 3 year Next Business Day Onsite HW Support w/Defective Media Retention for DesignJet Z6810-60	**U9ZH4E ★**
HP 5 year Next Business Day Onsite HW Support w/Defective Media Retention for DesignJet Z6810-60	**U9ZH6E ★**
HP 1 year Post Warranty NBD Onsite HW Support w/Defective Media Retention for DesignJet Z6810-60	**U9ZH7PE ★**
HP Network Installation Service for DesignJet High-end and Midrange	**H4518E ★**
HP 2 year Post Warranty NBD Onsite HW Support w/Defective Media Retention for DesignJet Z6810-60	U9ZH8PE
HP 4 year Next Business Day Onsite HW Support w/Defective Media Retention for DesignJet Z6810-60	U9ZH5E
HP Excessive Installation Service for HP DesignJet Series	U46TYE
HP Maintenance Kit Replacement Service for DesignJet Z6200 Z66X0 Z68X0 (Service Station)	HS400E
HP Maintenance Kit Replacement Service for DesignJet Z6810-60 (PMK1 Scan Axis)	U9ZX2E

Ink/Toner/Paper/Printer Supplies

Ink Supplies

HP Graphic Arts Inks/Printheads

HP 771 DesignJet Maintenance Cartridge	CH644A
HP 771A 3-pack 775-ml Light Cyan DesignJet Ink Cartridges	B6Y44A
HP 771A 3-pack 775-ml Light Gray DesignJet Ink Cartridges	B6Y46A
HP 771A 3-pack 775-ml Light Magenta DesignJet Ink Cartridges	B6Y43A
HP 771A 3-pack 775-ml Magenta DesignJet Ink Cartridges	B6Y41A
HP 771A 3-pack 775-ml Matte Black DesignJet Ink Cartridges	B6Y39A
HP 771A 3-pack 775-ml Photo Black DesignJet Ink Cartridges	B6Y45A
HP 771A 3-pack 775-ml Yellow DesignJet Ink Cartridges	B6Y42A
HP 771A 775-ml Light Cyan DesignJet Ink Cartridge	B6Y20A
HP 771A 775-ml Light Gray DesignJet Ink Cartridge	B6Y22A
HP 771A 775-ml Light Magenta DesignJet Ink Cartridge	B6Y19A
HP 771A 775-ml Magenta DesignJet Ink Cartridge	B6Y17A
HP 771A 775-ml Matte Black DesignJet Ink Cartridge	B6Y15A
HP 771A 775-ml Photo Black DesignJet Ink Cartridge	B6Y21A
HP 771A 775-ml Yellow DesignJet Ink Cartridge	B6Y18A
HP 774 3-pack 775-ml Chromatic Red DesignJet Ink Cartridges	P2W04A
HP 774 775-ml Chromatic Red DesignJet Ink Cartridge	P2W02A
HP 774 Light Magenta/Cyan DesignJet Printhead	P2V98A
HP 774 Magenta/Yellow DesignJet Printhead	P2V99A
HP 774 Matte Black/Chromatic Red DesignJet Printhead	P2V97A
HP 774 Matte Black/Cyan DesignJet Printhead	P2W01A
HP 774 Photo Black/Light Gray DesignJet Printhead	P2W00A

Accessories

Cabinets and Stands

Printer Cabinets and Stands

HP DesignJet 60-in Media Bin	Q6714A

Paper Handling

Spindles

HP DesignJet 60-in Spindle	CQ754A

Postscript/PCL5 Emulations

Postscript/PCL5 Emulations

HP DesignJet PostScript/PDF Upgrade Kit	CQ745B

Maintenance and Cleaning Kits

Maintenance Kits

HP DesignJet User Maintenance Kit	Q6715A

Solutions

HP DesignJet Printing Solutions

★ : Recommended

DesignJet Printing Solutions

HP DesignJet Printing Solutions	HPDJSOL

Scanners/Copiers/Faxes

Scanners

Large Format Scanners

HP HD Pro 2 42-in Scanner	5EK00A	
HP HD Pro 2 42-in Scanner	5EK00D	
HP SD Pro 2 44-in Scanner	5EK01A	
HP SD Pro 2 44-in Scanner	5EK01D	
HP SD Pro 44-in Scanner	G6H50B	obsolete
HP SD Pro 44-in Scanner	G6H50D	obsolete

Software

Printing and Imaging Software

★ : Recommended

Printer Management Software

HP SmartStream Preflight Manager	8SW00AAE
HP SmartStream Preflight Manager	L3J69AAE
HP SmartStream Preflight Manager One-Year Subscription	L3J71AAE
HP SmartStream Preflight Manager USB One-Year Subscription	L3J71A
HP SmartStream Print Controller USB for HP DesignJet Production Printers	L3J77A
HP SmartStream Print Controller for HP DesignJet Printers	8SW01AAE
HP SmartStream Print Controller for HP DesignJet Z6xx0 Production Printers	L3J79AAE
HP SmartStream USB Preflight Manager	L3J69A

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