



HP DesignJet Z6810 42-in Production Printer (2QU12A)

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 177 ft²/hr on glossy and 236 ft²/hr on coated paper.[5]

[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 42-in Production Printers can achieve print speeds up to 177 ft²/hour. Using coated paper and Normal mode, HP DesignJet Z6810 42-in Production Printers can achieve speeds up to 236 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 DesignJet Utility including HP Color Center
Energy star certified	Yes
Minimum dimensions (W x D x H)	1970 x 690 x 1370 mm
Minimum dimensions (W x D x H)	77.5 x 27.2 x 53.9 in
Weight	123 kg
Weight	271 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 42-in Production Printer, spindle, printheads, introductory ink cartridges, maintenance cartridge, printer stand, media bin, 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;CQ752A HP DesignJet 42-in Take-up Reel;CQ753A HP DesignJet 42-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;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)
Color Stability	< 1 dE2000 in less than 5 minutes[2]
Color accuracy	Median < 1.25 dE2000, 95% of colors < 2.75 dE2000[2]
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/bd709ad7302fa6090962d016be029ca8436ff582
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, take-up reel (optional)
Guaranteed minimum line width	0.067 mm (ISO/IEC 13660:2001(E))
Guaranteed minimum line width	0.0026 in (ISO/IEC 13660:2001(E))
Ink types	Pigment-based
Internal Storage	500 GB
Line accuracy	±0.1%
Maximum optical density (black)	4.5 L* min/2.31 D[2]
Media sizes standard (metric rolls)	279 to 1067 mm
Media sizes standard (sheets, rolls)	11 to 42 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	42 in
Media width, maximum	1067 mm
Memory	64 GB file processing (based on 1 GB RAM)
Model size	42 in

Model size	1067 mm
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	41 to 104°F
Operating temperature range	5 to 40°C
Optional printer languages	Adobe PostScript 3; Adobe PDF 1.7; TIFF; JPEG
Package dimensions (W x D x H)	89.8 x 28.9 x 47.2 in
Package dimensions (W x D x H)	2280 x 735 x 1200 mm
Package weight	390.2 lb
Package weight	177 kg
Playbook TS icon dimensions AiO	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192862.png
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 speed	Fast-Economode: 113.6 m²/hr on plain media; Normal: 21.9 m²/hr on coated media; Best: 11 m²/hr on glossy media[1]
Print speed	Fast-Economode: 1225 ft²/hr on plain media; Normal: 236 ft²/hr on coated media; Best: 118 ft²/hr on glossy media[1]
Print technology	HP Thermal Inkjet
Printer drivers included	Raster driver for Windows; PostScript driver for Windows and macOS with optional PostScript/PDF Upgrade Kit
Product logos	CE Marking; ENERGY STAR; EPEAT green; 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	6.7 in
Roll external diameter	170 mm

Roll maximum input	1
Roll maximum weight	18 kg
Roll maximum weight	40 lb
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 131°F
Storage temperature range	-20 to 55°C
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 1	AHID/60d2a69d632efba286c546dd6a2fcfdb5c3c9e1f
Technology logo 2	AHID/cd33e848211911e4369b10008531951b0aa3cde7
Technology logo 3	AHID/c51bf05ff1023abad6fda02c5a970763b91946f4
Technology logo 4	AHID/6615658f92b8dd21f3c5b78f3bea628bd257123b
Technology logo 5	AHID/7122a78e6f9db1bfb632dc78c6a1e2c2a476f331
Technology logo 6	AHID/f9224d96cd827cf0ee4e062d349e8f701d1eb6d9
Technology logo 7	AHID/c885e5162be6c4eb2b4aa2d6270b22837683a15b
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) 192018991903; (B19) 192018991873; (B1K) 192018991880; (BCD) 192018991897
Web address for additional information	http://www.hp.com/go/designjetz6810

Ink Supplies

★ : Recommended

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 771B 3-pack 775-ml Light Cyan DesignJet Ink Cartridges	B6Y28A
HP 771B 3-pack 775-ml Light Gray DesignJet Ink Cartridges	B6Y30A
HP 771B 3-pack 775-ml Light Magenta DesignJet Ink Cartridges	B6Y27A
HP 771B 3-pack 775-ml Magenta DesignJet Ink Cartridges	B6Y25A
HP 771B 3-pack 775-ml Matte Black DesignJet Ink Cartridges	B6Y23A
HP 771B 3-pack 775-ml Photo Black DesignJet Ink Cartridges	B6Y29A
HP 771B 3-pack 775-ml Yellow DesignJet Ink Cartridges	B6Y26A
HP 771B 775-ml Light Cyan DesignJet Ink Cartridge	B6Y04A
HP 771B 775-ml Light Gray DesignJet Ink Cartridge	B6Y06A
HP 771B 775-ml Light Magenta DesignJet Ink Cartridge	B6Y03A
HP 771B 775-ml Magenta DesignJet Ink Cartridge	B6Y01A
HP 771B 775-ml Matte Black DesignJet Ink Cartridge	B6X99A
HP 771B 775-ml Photo Black DesignJet Ink Cartridge	B6Y05A
HP 771B 775-ml Yellow DesignJet Ink Cartridge	B6Y02A
HP 771C 3-pack 775-ml Light Cyan DesignJet Ink Cartridges	B6Y36A

HP 771C 3-pack 775-ml Light Gray DesignJet Ink Cartridges	B6Y38A
HP 771C 3-pack 775-ml Light Magenta DesignJet Ink Cartridges	B6Y35A
HP 771C 3-pack 775-ml Magenta DesignJet Ink Cartridges	B6Y33A
HP 771C 3-pack 775-ml Matte Black DesignJet Ink Cartridges	B6Y31A
HP 771C 3-pack 775-ml Photo Black DesignJet Ink Cartridges	B6Y37A
HP 771C 3-pack 775-ml Yellow DesignJet Ink Cartridges	B6Y34A
HP 771C 775-ml Light Cyan DesignJet Ink Cartridge	B6Y12A
HP 771C 775-ml Light Gray DesignJet Ink Cartridge	B6Y14A
HP 771C 775-ml Light Magenta DesignJet Ink Cartridge	B6Y11A
HP 771C 775-ml Magenta DesignJet Ink Cartridge	B6Y09A
HP 771C 775-ml Matte Black DesignJet Ink Cartridge	B6Y07A
HP 771C 775-ml Photo Black DesignJet Ink Cartridge	B6Y13A
HP 771C 775-ml Yellow DesignJet Ink Cartridge	B6Y10A
HP 773A 775-ml Cyan DesignJet Ink Cartridge	C1Q26A
HP 773A 775-ml Light Gray DesignJet Ink Cartridge	C1Q28A
HP 773A 775-ml Light Magenta DesignJet Ink Cartridge	C1Q25A
HP 773A 775-ml Magenta DesignJet Ink Cartridge	C1Q23A
HP 773A 775-ml Matte Black DesignJet Ink Cartridge	C1Q21A
HP 773A 775-ml Photo Black DesignJet Ink Cartridge	C1Q27A
HP 773A 775-ml Yellow DesignJet Ink Cartridge	C1Q24A
HP 773B 775-ml Cyan DesignJet Ink Cartridge	C1Q34A
HP 773B 775-ml Light Gray DesignJet Ink Cartridge	C1Q36A
HP 773B 775-ml Light Magenta DesignJet Ink Cartridge	C1Q33A
HP 773B 775-ml Magenta DesignJet Ink Cartridge	C1Q31A
HP 773B 775-ml Matte Black DesignJet Ink Cartridge	C1Q29A
HP 773B 775-ml Photo Black DesignJet Ink Cartridge	C1Q35A
HP 773B 775-ml Yellow DesignJet Ink Cartridge	C1Q32A
HP 773C 775-ml Cyan DesignJet Ink Cartridge	C1Q42A
HP 773C 775-ml Light Gray DesignJet Ink Cartridge	C1Q44A
HP 773C 775-ml Light Magenta DesignJet Ink Cartridge	C1Q41A
HP 773C 775-ml Magenta DesignJet Ink Cartridge	C1Q39A
HP 773C 775-ml Matte Black DesignJet Ink Cartridge	C1Q37A
HP 773C 775-ml Photo Black DesignJet Ink Cartridge	C1Q43A
HP 773C 775-ml Yellow DesignJet Ink Cartridge	C1Q40A
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

Paper Handling

★ : Recommended

Spindles

HP DesignJet 42-in Spindle

CQ753A

Take-up Reels

HP DesignJet 42-in Take-up Reel

CQ752A

Postscript/PCL5 Emulations

Postscript/PCL5 Emulations

HP DesignJet PostScript/PDF Upgrade Kit

CQ745B

HP DesignJet PostScript/PDF Upgrade Kit

CQ745C

Maintenance and Cleaning Kits

Maintenance Kits

HP DesignJet User Maintenance Kit

Q6715A

HP DesignJet Printing Solutions

★ : Recommended

DesignJet Printing Solutions

HP DesignJet Printing Solutions	HPDJSOL
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Scanners

★ : Recommended

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
HP SD Pro 44-in Scanner	G6H50D

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 for HP DesignJet Printers	8SW01AAE
HP SmartStream Print Controller for HP DesignJet Z6xx0 Production Printers	L3J79AAE

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