Data sheet

HP Designjet Z6800 Photo Production Printer

Fastest 60-in graphics production printer with unrivaled print quality¹

Designed for speed and productivity

• Print as fast as 1500 ft²/hr (140 m²/hr) in fast mode and 212 ft²/hr (20 m²/hr) in high-quality mode²
• Cut turnaround times and effortlessly handle large data loads thanks to high file-processing power
• Create quality prints at top speed with HP Double Swath Technology and the HP Optical Media Advance Sensor
• Confidently print unattended thanks to heavy media rolls, 775-ml HP ink cartridges, and a built-in take-up reel

Unrivaled color and black-and-white image quality

• Print exceptional colors—HP Vivid Photo Inks with a chromatic red offer a wide color gamut and uniform gloss
• Create unique black-and-white prints—three shades of black HP ink deliver rich density and smooth transitions
• Offer your customers durable prints that last up to 200 years, using HP Vivid Photo Inks³
• Produce posters, photos, canvas prints, backlit signs, POP displays, and maps with unrivaled image quality

Advanced color management backed by HP reliability

• Create custom ICC profiles and achieve color accuracy with the embedded spectrophotometer and color center⁴
• Achieve color accuracy — complete coverage of SWOP, ISO, GRACOL, 3DAP, EUROSCALE, TOYO, and FOGRA gamuts
• Choose how you want to print — send jobs right from your preferred design applications or through third-party RIPs
• Gain color reliability with HP Professional PANTONE® color emulation and embedded Adobe® PostScript®/PDF⁵

Eco Highlights

• Breakthrough color consistency can help reduce unnecessary reprints
• Free, convenient HP ink cartridge and printhead recycling¹
• FSC®-certified papers,¹ range of recyclable HP media with a take-back program¹
• ENERGY STAR® qualified and EPEAT Bronze registered⁶

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 EPEAT registered where applicable/supported. See epeat.net for registration status by country.
4 Embedded in this HP Designjet Printer 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.
5 HP Professional PANTONE color emulation and embedded Adobe PostScript/PDF upgrade kit sold separately.

1 With Aurasma installed, please go to the HP Designjet channel at http://auras.ma/s/ke25m
2 Without Aurasma installed, please download it:
Once done, go to the HP Designjet channel at http://auras.ma/s/ke25m
3. Open the application and point to the image to view the HP Designjet video
Technical specifications

Print
Maximum print speed 140 m²/h (1550 ft²/h) on plain media
Color image 2 Best: 3.2 min/page on A4 or up to 1.1 m²/h (11.8 ft²/h) on glossy media
Normal: 2.1 min/page on A1 or up to 1.9 m²/h (12.1 ft²/h) on glossy media
Print resolution Up to 2400 x 1200 optimized dpi
Margins 5 x 5 x 5 x 5 mm (0.2 x 0.2 x 0.2 x 0.2 in)
Ink types Pigment-based
Technology HP Thermal Inkjet
Ink cartridges Chromatic magenta, yellow, cyan, yellow, light gray, light magenta, matte black, photo black
Line accuracy +/- 0.1%8
Minimum line width 0.02 mm (0.0008 in) [HP-GL, L2 addressing]
Guaranteed minimum line width 0.066 mm (0.0026 in) [ISO/IEC 13660:2001(E)]

Image quality
Color accuracy Median < 1.19 dl2k, 95% of colors < 2.77 dl2k10
Short term color stability Less than 2% for more than 60 minutes
Long term print-to-print repeatability Average < 0.5 dE2000, max < 1 dE200011
Maximum optical density 4.5 L* min/2.31 D12

Media
Handling Roll feed, automatic cutter, take-up reel
Media types Bond and coated paper, technical paper, film, photographic paper, proofing paper, backlit, self-adhesive, banner and sign fabric, heat-sensitive art printing material
Size 279 to 1524 mm (11 to 60 in) rolls
Thickness Up to 0.56 mm (22 mil)

Applications
Posters, Banners, Mockups, Photos, Digital fine art, Proofs, Displays, POP/POS, Light boxes – Film, Exhition graphics

Connectivity
HP-GL2, HP-RTL, CALS G4
Print languages (standard) Adobe PostScript, Adobe PostScript 3
Print languages (optional) Adobe PostScript 3, Adobe PDF 1.7, PDF, JPEG
Printing paths Printer driver, Embedded Web Server
Drivers (included) HP-GL2, HP-RTL drivers for Windows; PostScript and Mac drivers with optional PostScript/PDF Upgrade Kit

Dimensions (w x d x h)
Printer 2430 x 690 x 1370 mm (95.7 x 27.2 x 53.9 in)
Shipping 2700 x 756 x 1200 mm (106.3 x 29.5 x 47.2 in)
Printer weight 190 kg (419 lb)
Shipping weight 250 kg (550 lb)

What’s in the box
HP Designjet Z6800 Photo Production Printer, spindle, printheads, introductory Ink cartridges, maintenance cartridge, printer stand, take-up reel, 3-in spindle adapter kit, quick reference guide, setup support, start-up software, power cord

Environmental ranges
Operating temp. -27°C to 40°C (1°C to 101°F)
Storage temp. -20 to 55°C (-4°C to 131°F)
Operating humidity 20 to 80% RH

Acoustic
Sound pressure 53 dB(A) (printing), 49 dB(A) (ready), 39 dB(A) (sleep)
Sound power 70.6 dB(A) (printing), 66.4 dB(A) (ready), 58.6 dB(A) (sleep)

Power consumption
24 watts (printing), 42 watts (maximum), < 48 watts (ready), < 5 watts (sleep) (< 0.5 watts off)

Certification
Safety USA and Canada (C-ULus certified), EU (EN 60950-1 compliant), Russia (GOST), Singapore (PSB), China (CCC), Argentina (BRAII), Mexico, (IVCS), Korea (KATS)
Electromagnetic Immune to Class A requirements, including: USA FCC rules, Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI, Korea KCC)
Environmental ENERGY STAR 2.0, WEEE, RoHS (EU, China, Korea, India), REACH, EPEAT Bronze

Warranty
One year limited hardware warranty

For more information, please visit hp.com/go/DesignjetZ6800

Ordering information
Product F2Z72A HP Designjet Z6800 60-in Photo Production Printer
Accessories CQ454A HP Designjet HD Scanner
CQ455A HP Designjet PostScript/PDF Upgrade Kit
CQ754A HP Designjet 60-in Spindle
IB025A HP Jetdirect 640n Print Server
Q8714A HP Designjet 60-in Media Bin
Q8715A HP Designjet User Maintenance Kit

Original HP printheads
CE017A HP 771 Matte Black and Chromatic Red Designjet Printhead
CE018A HP 771 Magenta and Yellow Designjet Printhead
CE019A HP 771 Light Magenta and Light Cyan Designjet Printhead
CE020A HP 771 Photo Black and Light Gray Designjet Printhead

Original HP Ink cartridges
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
B6Y20A HP 771A 775-ml Light Cyan Designjet Ink Cartridge
B6Y21A HP 771A 775-ml Photo Black Designjet Ink Cartridge
B6Y22A HP 771A 775-ml Light Gray Designjet Ink Cartridge

Original HP format printing materials
Q8000A HP Premium Instant-dry Satin Photo Paper (FSC® certified) 1524 mm x 30.5 m (50 ft x 100 ft)
Q8578A HP Premium Instant-dry Gloss Photo Paper (FSC® certified) 1524 mm x 30.5 m (50 ft x 100 ft)
Q8707A HP Art Matte Canvas 1524 mm x 15.2 m (50 ft x 50 ft)
Q8750A HP Premium Vivid Colour Backlit Film (FSC® certified) 1524 mm x 30.5 m (50 ft x 100 ft)

Service and support
HP Instant Ink Service with Network Setup
UT25BE HP 2 years Next Business Day Onsite Support with DMR
UT25CE HP 3 years Next Business Day Onsite Support with DMR
UT21OE HP 5 years Next Business Day Onsite Support with DMR
UT21PE HP 1 year Post Warranty, Next Business Day Onsite Support with DMR
UT21TPE HP 2 years Post Warranty, Next Business Day Onsite Support with DMR
DTVX4E HP Preventive Maintenance Service

Environmental:
- HP shall not be liable for technical or editorial errors or omissions contained herein.
- Nothing herein should be construed as constituting an additional warranty.
- © Copyright 2014 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty.
- HP shall not be liable for technical or editorial errors or omissions contained herein.
- Adobe, PostScript, and Adobe PostScript 3 are trademarks of Adobe Systems Incorporated. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks. Windows is a U.S. registered trademark of Microsoft Corporation. Mac and the Mac logo are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.
- For more information, please visit hp.com/go/DesignjetZ6800