Data sheet

HP Designjet Z6800 Photo Production Printer

Fastest 60-in graphics production printer with unrivaled print quality

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 mode
• 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 long 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 Inks
• 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 center
• 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®/PDF

Eco Highlights

Please recycle large-format printing hardware and printing supplies. Find out how at our website hp.com/ecosolutions.

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.

1. With Aurasma installed, please go to the HP Designjet channel at http://auras.ma/s/ke25m
2. Without Aurasma installed, please download it:
3. Once done, go to the HP Designjet channel at http://auras.ma/s/ke25m
4. Embedded in this HP Designjet Printer is a spectrophotometer with i1 color technology 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.
The HP Designjet printing system

Turn orders in record time with the fastest 60-inch production printer for graphics. Offer exceptional color and black-and-white prints on many substrates with 8 HP Vivid Photo Inks. Count on advanced color management features backed by HP reliability and easy operation.

Outstanding speed

HP Double Swath Technology provides breakthrough speed and performance. The HP DesignJet Z6800 Photo Production Printer includes two sets of four HP 771 Designjet Printheads, creating a wide print swath—up to 1.67-inches/42.5 mm—and a high firing frequency to deliver prints with amazing speed. Eight bi-color printheads feature 1,056 nozzles per color, 1,200 nozzles per inch, and small drop volumes for top photo quality.

The HP Optical Media Advance Sensor (OMAS) allows you to print at top speeds and still get great output results. This breakthrough technology improves paper-advance control and accuracy, so the printer can print at higher speeds across multiple environmental conditions without impairing image quality.

High productivity

Meet demanding requests and deliver high-impact prints. Fast speeds and high processing power help cut turnaround times. Achieve excellent image quality at production speeds. Confidently print unattended with large ink cartridges and a take-up reel.

Amazing color

Consistently achieve accurate colors using advanced HP technologies with complete coverage of FOGRA gamuts. Generate custom ICC profiles with the embedded spectrophotometer with i1 color technology from X-Rite. Print from your favorite design applications or through RIPs.

The HP Designjet Utility lets you easily navigate through color-management, printing, and job-management workflows, and the HP Color Center provides easy-to-use, step-by-step instructions on how to add new media and calibrate the printer. Plus, the HP Designjet Z6800 printer’s accounting tool allows you to easily track supplies use by job, while the job submitter tool lets you submit your HP-RTL, HP-GL/2, CALS G4, PostScript®, PDF, TIFF, EPS, and JPEG files directly to the printer.

HP Vivid Photo Inks

Three shades of black HP ink produce outstanding optical density and smooth transitions. Deliver durable prints that stand the test of time. HP 771 Printheads are designed to achieve precise, accurate placement of smaller drops at high speed. Each printhead prints two colors of ink with 1,056 nozzles per color.

Using HP chromatic red ink, your HP Designjet printing system provides the broad color gamut needed to produce vibrant color and deep, rich blacks and to achieve true photo-realistic image quality.

High, uniform gloss provides the professional finish. With a wide range of blacks and grays with smooth, subtle transitions, true gray neutrality, and rich black density, you can produce remarkable black-and-white prints. And these prints provide lasting results with exceptional print permanence indoors in-window and away from direct sun.

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1 Compared with large-format inkjet printers under $25,000 USD for graphic applications. Based on the fastest-rated color speeds as published by manufacturers as of October 2013. Test methods vary.
2 Display permanence rating for interior displays/away from direct sunlight by HP Image Permanence Lab, and by Wilhelm Imaging Research, Inc. on a range of HP media. For more information, see globalBGM.com/hp.
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Exceptional image quality that increases your offering

**Retail POP/POS**
Create appealing advertising posters, displays, window graphics and backlights, that can influence shoppers’ decisions. High-quality printing on a wide variety of media can help you gain a competitive edge.

**Maps and Orthophotos**
Communicate clearly with excellent image and line quality on all your prints from drawings to satellite and aerial photos, maps, and more.

**Renderings, Posters and Presentations**
Print large-format drawings, schematics, renderings, and presentations with great ease, speed, sharp details and vibrant quality—all at low running costs.

**Line Drawings**
Print anything from simple CAD drawings to complex color documents with high speed and outstanding image quality. Bring your vision to life with drawings full of fine detail, enabled by precise line accuracy.

**Exhibition and Event Graphics**
Grab attention at exhibitions and events with eye-catching top-quality graphics. Print a variety of applications, from roll-up banners and pop-up banners to backlight signs and posters, with outstanding print quality.

**Professional Photography and Digital Fine Art**
Produce dazzling fine art reproductions for galleries and artists with high-quality digital printing. Long lifespan and fade resistance keep prints in top viewing condition on a range of printing materials from canvas to high-end professional photo and fine art papers.

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**HP-certified RIP solutions**
The HP Designjet Z6600 Production Printer and the HP Designjet Z6800 Photo Production Printer offer an exceptional range of HP-certified third-party RIP solutions and workflow products whatever your application needs that will help you meet to your essential performance expectations. Learn more at hp.com/go/DesignjetRIPs.

**Trust HP Services**
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/designjet/support.

**HP Vivid Photo Inks**
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 globalBMG.com/hp.

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* Display permanence rating for interior displays/away from direct sunlight, under glass by HP Image Permanence Lab and/or by Wilhelm Imaging Research, Inc. on a range of HP media. See globalBMG.com/hp.
Technical specifications

Print
Maximum print speed1 140 m/hr (500 feet/hr) on plain media
Color images1 12.3 m²/hr (40 ft²/hr) on glossy media
Normal: 2.1 m²/hr (7 ft²/hr) 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)
IPK types Pigment-based
Technology HP Thermal Inkjet
Ink cartridges 8 Chromatic red, magenta, yellow, light cyan, light gray, light magenta, matte black, photo black)
Line accuracy +/-0.1% of the specified vector length or +/-0.2 mm (whichever greater)
Minimum line width 0.2 mm (0.0008 in) (HP-GL/2 addressable)
Guaranteed minimum line width 0.067 mm (0.0026 in) ISO/IEC 15468:2001(D)1
Short-term color stability 1 <= 12 days, 95% of colors < 2.75
Long-term print-to-print repeatability Average <= 2.05, 95% of colors < 2.75 days
Maximum optical density 4.51 (m²/2.1 D1)

Media
Handling Roll feed, automatic cutter, take-up reel
Media types Bond and coated paper, technical paper, film, photographic paper, proofing paper, back-up, self-adhesive, banner and sign, fabric, fine 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, Proof, Displays, POP/POS, Light boxes — film, Exhibition, Event graphics

Memory 64 GB (virtual) 16, 320 GB hard disk

Dimensions (w x d x h) 2700 x 700 x 1200 mm (106.3 x 27.5 x 47.2 in)

Weight Printer 150 kg (330 lb)
Shipping 320 kg (705 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 poster, startup software, power cord

Environmental ranges Operating temp. -20 to 55 °C (41 to 131 °F)
Storage temp. -20 to 55 °C (41 to 131 °F)

Acoustic Noise levels 53 dB(A) (printing), 39 dB(A) (ready), 43 dB(A) (Sleep)
Power 70 W (printing), 3.5 W (Sleep)

Certification Safety USA and Canada (UL certified), EU EUoV and EN 60950-1 (compliant), Russia (GOST), Singapore (PSB), China (IEC, Argentina (IRAM), Mexico (NYCE), Korea (IC)

Electromagnetic Compliance with various requirements (including: USA FCC rules, Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (EMF), China (CCEE), Japan (VCCI), Korea (BISMP)

Environmental ENERGY STAR, WEEE, REACH, RoHS EU, China, Korea, India, REACH, EPEAT Bronze

Warranty One-year limited hardware warranty

Ordering information

Product F2572A HP Designjet Z6800 60-in Photo Production Printer

Accessories G6H51A HP Designjet HD Pro Scanner
CQ745B HP Designjet PostScript/PDF Upgrade Kit
CQ744A HP Designjet 60-in Spindle
Q925A HP Instant Dry 640 Print Server
Q6714A HP Designjet 60-in Media Bin
Q6715A HP Designjet User Maintenance Kit
F2922A HP SmartStream Print Manager for HP Designjet
K3160A HP SmartStream Print Controller for HP Designjet Z6200/Z6600/Z6800 Production Printers

Original HP printheads C1017A HP 771 Matte Black DesignJet Ink Cartridge
C1019A HP 771 775-ml Chromatic Red DesignJet Ink Cartridge
C1019B HP 771 775-ml Light Cyan DesignJet Ink Cartridge
C1019C HP 771 775-ml Light Magenta DesignJet Ink Cartridge
C1019D HP 771 775-ml Light Gray DesignJet Ink Cartridge
C1019E HP 771 775-ml Matte DesignJet Ink Cartridge
C1019F HP 771 775-ml Magenta DesignJet Ink Cartridge
C1019G HP 771 775-ml Yellow DesignJet Ink Cartridge

Original HP ink cartridges and maintenance supplies C1039A HP 773 775-ml Matte Black DesignJet Ink Cartridge
C1039B HP 773 775-ml Chromatic Red DesignJet Ink Cartridge
C1039C HP 773 775-ml Light Cyan DesignJet Ink Cartridge
C1039D HP 773 775-ml Light Magenta DesignJet Ink Cartridge
C1039E HP 773 775-ml Light Gray DesignJet Ink Cartridge
C1039F HP 773 775-ml Matte DesignJet Ink Cartridge
C1040A HP 773 775-ml Magenta DesignJet Ink Cartridge
C1040B HP 773 775-ml Yellow DesignJet Ink Cartridge

Original HP large format printing materials G8000A HP Premium Instant-dry Satin Photo Paper (IFSC® certified) 1524 mm x 50.5 m (60 in x 100 ft)
G6578A HP Universal Instant-dry Gloss Photo Paper (IFSC® certified) 1524 mm x 50.5 m (60 in x 100 ft)
G8707A HP Brilliant Matte Canvas 1524 mm x 1.2 m (60 in x 50 ft)
G8750A HP Premium Vivid Color Backlit Film 1524 mm x 30.5 m (60 in x 100 ft)

Service and support

H4318E HP Installation Service with Network Setup
U1Z5BE HP 2 years Next Business Day Onsite Support with DMR *
U1Z59E HP 3 years Next Business Day Onsite Support with DMR *
U1T06E HP 5 years Next Business Day Onsite Support with DMR *
U1T0PE HP 1 year Post Warranty, Next Business Day Onsite Support with DMR *
U1XWBE HP Preventive Maintenance Service

* HP Designjet Media Retention keeps your sensitive data safe. To comply with secure regulations, you can keep the defective hard-disk or data-rettentive memory component while getting a new replacement disk or memory.

For the entire HP Large Format Printing Materials portfolio, please see globalbmg.com/ hp.

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

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