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 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 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

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.
4 Embedded in this HP Designjet Printer is a spectrophotometer with 11 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.
5 HP Professional PANTONE color emulation and embedded Adobe PostScript/PDF upgrade kit sold separately.

Energy Star qualified and EPEAT Bronze registered³

Breakthrough color consistency can help reduce unnecessary reprints
• Free, convenient HP ink cartridge and printhead recycling¹
• FSC®-certified papers, range of recyclable HP media with a take-back program¹
• ENERGY STAR® qualified and EPEAT Bronze registered¹

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

Open the application and point to the image to view the HP Designjet video
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.7

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6 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.

7 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 [globalBMG.com/hp](http://globalBMG.com/hp).
Exceptional image quality that increases your offering

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

Exhibition and Event Graphics
Grab attention at exhibitions and events with eye-catching top-quality graphics. Print a variety of drawings, schematics, renderings, and presentations with great ease, speed, sharp details and vibrant quality—all at low running costs.

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.

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.

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.7 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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7 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 speed: 140 m/min (1500 ft/min) on plain media
- Color images: Best: 3.2 min/page on A/7P or up to 13.7 m/min (141 ft/min) on glossy media; Normal: 2.1 min/page on A/10 or up to 17.9 m/min (121 ft/min) on glossy media
- Print resolution: Up to 2400 x 1200 optimized dpi
- Margins: 5 x 5 x 5 mm (0.2 x 0.2 x 0.2 in)
- Ink types: Pigment-based
- Technology: HP Thermal Inkjet
- Ink cartridges: 6 (Chrome red, magenta, yellow, light cyan, light gray, light magenta, matte black, photo black)
- Line accuracy: +/- 0.1% 8
- Minimum line width: 0.02 mm (0.0008 in) (HP-GL/2 addressable)
- Guaranteed minimum life: 0.067 ml (0.0026 in³) @ 36600.218
- Long-term print-to-print repeatability: Average < 0.25% 2000, 95% of colours < 1.25% 2000
- Maximum optical density: 4.5, 13 mm x 13 mm

**Media**

- Handling: Roll-fed, cut-on-demand, 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)
- Up to 1524 mm x 30.5 m (60 in x 100 ft)

**Applications**

- Posters, Banners, Mockups, Photos, Digital fine art, Proofs, Displays, POP/POS, Light boxes, Film, Exhibition, Event graphics

**Memory**

- 4 GB (dual channel), 32 GB hard disk

**Connectivity**

- Interfaces (standard): Ethernet 10/100Base-t, EIO, Jetdirect accessory
- Print languages (standard): HP-GL/2, HP-RTL, LALS, LQ
- Print languages (optional): Adobe Postscript 3, Adobe PDF 1.7, TIFF, JPEG
- Printing paths: Printer driver, HP Embedded Web Server
- Drivers (included): HP-GL/2, HP-RTL drivers for Windows; PostScript Windows 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 750 x 1200 mm (106.3 x 29.5 x 47.2 in)

**Weight**

- Printer: 150 kg (419 lb)
- Shipping: 252 kg (556 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 (-4 to 131 °F)
- Storage temp.: -20 to 55 °C (-4 to 131 °F)
- Operating humidity: 20 to 80% RH

**Acoustic**

- Sound pressure: 5.1 dBA (printing); 39 dBA (ready); 39 dBA (sleep)
- Sound power: 7.0 dBA (printing); 5.5 dBA (ready); 5.5 dBA (sleep)

**Power**

- Consumption: 270 watts (printing); < 48 watts (ready); < 5.3 watts (sleep)
- Requirements: Input voltage (auto ranging): 100 to 127 VAC (+/- 10%), 5 A; 220 to 240 VAC (+/- 10%), 3 A; 50/60 Hz (+/- 3 Hz)

**Certification**

- Safety: USA and Canada (CSA certified), EU (LVD and EN 60950-1 compliant), Russian (GOST), South Korea (KCC), China (CCC), Argentina (RMI), Mexico (NYCE), China (ECHELON)
- Magnetic: Compliant with ESD requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSRN), China (REEC), Japan (VCCI), Korea (KNSP)
- Environmentally: ENERGY STAR, REACH, RoHS, CE, China, Korea, India, RACH, OHS, India

**Warranty**

- One-year limited hardware warranty

**Ordering information**

- **Product**: F2Y27A HP DesignJet Z68000 60-in Photo Production Printer
- **Accessories**: Q6644A HP PostScript/PDF Upgrade Kit, 8052A HP Jetdirect e-b/bin Print Server, Q6744A HP DesignJet 60-in Media Bin, Q6714A HP DesignJet User Maintenance Kit
- **Original HP ink cartridges and maintenance supplies**: C1Q21A HP 771 Matte Black DesignJet Ink Cartridge, C1Q20A HP 771 Matte Black DesignJet Ink Cartridge, C1Q19A HP 771 Matte Black DesignJet Ink Cartridge, C1Q18A HP 771 Photo Black DesignJet Ink Cartridge
- **Upgrade Kit**: Windows and Mac drivers with optional PostScript/PDF
- **Software and service**

- **Service and support**: HP DesignJet Service supports 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.

For more information, please visit hp.com/go/DesignJetZ6800

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10. Mechanical printing time. Printed with HP Vivid Photo Inks.
11. +/- 0.1% of the specified vector length or +/- 0.2 mm (whichever greater) at 23°C (73°F), 50-60% relative humidity, on A/10 HP Matte Film in Best or Normal mode with HP Vivid Photo Inks.
12. Measured on HP Matte Film.
13. ICC absolute colorimetric accuracy on HP Premium Instant Dry Photo Paper with Original HP inks.
15. With HP Premium Instant-dry Gloss Photo Media with HP Ink Cartridges.
16. Based on 1 GB RAM. Expandable to 1.5 GB RAM through a DesignJet qualified SODIMM included only in the optional HP DesignJet PostScript/PDF Upgrade Kit accessory.
17. Only in selected US channels.
18. BMG trademark license code FSC®-C115319, see for hp. HP trademark license code FSC®-C017543, see for hp. Not all FSC-certified products are available in all regions.

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For more information, please visit hp.com/go/DesignJetZ6800