HP Designjet Z6600 Production Printer

The fastest 60-in graphics production printer with efficient operation¹

**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

**High-impact image quality**

- Achieve smooth color tones thanks to HP Multi-dimensional Smart Drop Placement Technology
- 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
- Print a wide range of jobs—from posters, photos, and signs to canvas and backlit prints—on many substrates

**Efficient operation with a 6-ink printing system**

- Print up to 30% more efficiently, using a 6-ink printing system with an optimized configuration⁴
- Choose how you want to print—send jobs right from your preferred design applications or through third-party RIPS
- Ensure image quality—and reduce cleaning and waste—using automatic drop detection and intelligent masking
- 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,² range of recyclable HP media with a take-back program¹
- ENERGY STAR® qualified and EPEAT Bronze registered³

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

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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.

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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 Using plain paper and fast mode, the HP Designjet Z6600 Production Printer can achieve speeds up to 1500 ft²/hr (140 m²/hr). Using glossy paper and normal mode, the Z6600 can achieve print speeds up to 212 ft²/hr (20 m²/hr).
³ 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 and based on HP Vivid Photo Inks. For more information, see HPLFMedia.com.
⁴ The HP Designjet Z6600 Production Printer uses 30% less ink than the HP Designjet Z6100 Printer (demonstrated by internal HP tests on glossy media in production model).
⁵ HP Professional PANTONE color simulation and embedded Adobe PostScript/PDF upgrade kit sold separately.

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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
The HP Designjet printing system

Turn orders in record time with the fastest 60-inch production printer for graphics. Efficiently produce outstanding color and black-and-white prints with 6 HP Vivid Photo Inks. Rely on powerful performance from an easy-to-use printer.

Outstanding speed

**HP Double Swath Technology** provides breakthrough speed and performance. The HP Designjet Z6600 Production Printer includes two sets of three HP 771 and HP 773 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. Six 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.

Efficient and unattended operation

Gain efficient operation using a six-ink printing system with an optimized configuration. Print from your favorite design applications or through third-party RIPs. Ensure image quality and reduce cleaning and waste using automatic drop detection and intelligent masking.

The **HP Multi-dimensional Smart Drop Placement Technology** enables the highest quality possible for a 6-ink system while guarding against potential media-feed or drop-placement errors.

The optimal combination of inks for each RGB or CMYK pixel is obtained using a dithering algorithm, which depends on the pixel tone rather than each individual color. Printed results are then optimized in terms of color gamut, smooth color transitions, and minimal image grain. After this step, the resulting image resolution is expanded to control more precisely each drop placement and to spread drops between the different passes using frequency-analysis methods that minimize ink-media interactions (dot visibility, coalescence, bleeding, etc.) and artifacts related to dot-placement errors.

**Intelligent masking** saves time, ink, and media by reducing reprints and extending printhead life. In multi-pass print modes, dots in every scan row can be printed by different physical nozzles on different passes.

Failing nozzles are identified by the embedded **Optical Drop Detector**. These are then flagged “do not use” because of misdirected drops, weak drops (low drop weight or drop velocity), or non-operation. Only “good” nozzles are used at each print location so banding and image quality defects are eliminated. After printing, the printer automatically performs recovery routines to restore failed nozzles during printhead service station cycles, saving time, ink, and the hassle of manual user interventions.

**HP Vivid Photo Inks**

Create impressive long–lasting images in color and black-and-white with rich optical density and smooth transitions using **HP Vivid Photo Inks**. Print on many substrates to deliver a wide range of jobs such as posters, canvas prints, and POP signs. HP Designjet printheads are designed together with HP Vivid Photo inks to provide precise, accurate placement of smaller drops and high speed. Each printhead prints two colors of ink with 1,056 nozzles per color.

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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.
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 applications, from roll-up banners and pop-up banners to backlit 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.

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/designjetsupport.

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 HPLFMedia.com.

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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 HPLFMedia.com.
Data sheet | HP Designjet Z6600 Production Printer

Technical specifications

**Print**
- Max print speed: 140 m²/h (1500 ft²/h) on plain media
- 24-bit color accuracy

**Display images**
- Bright: 3.2 mJ/mm² on A1(35) or up to 13.1 mJ/mm² on glossy media
- Normal: 2.1 mJ/mm² on A1(35) or up to 19.7 mJ/mm² on 12-in (A2) media

**Print resolution**
- Up to 2400 x 1200 optimized dpi
- 5 x 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: C (cyan), M (magenta), Y (yellow), L (light gray), B (black), PB (photo black)

**Line accuracy**
- ±0.02 mm (0.0008 in) HP-GL/2 addressable
- Guaranteed minimum line width: 0.017 mm (0.0006 in)

**Image quality**
- Short term color stability: < 1 dB per day for 5 minutes
- Long-term print-to-print repeatability: Average ± 0.5 dB(2000), 95% of colors ± 1.25 dB(2000)
- Maximum optical density: 4.5 L* min/(2.3 D*)

**Media**
- Handling: Roll feed, automatic cutter, take-up reel
- Media types: Bond and coated paper, technical paper, film, photographic paper, proofing paper, photo board, Banner, Silk, Vinyl, etc.
- Size: 279 to 1524 mm (11 to 60-in) rolls
- Weight: 10 to 25 kg (22 to 55 lbs)

**Applications**
- Posters, Banners, Mockups, Photos, Digital fine art, Banners, Exhibition, Event graphics, Light boxes, films - Point of sale/Display

**Memory**
- 64 GB total [12]/ 32 GB free [12]

**Connectivity**
- Interfaces (standard): Gigabit Ethernet (1000Base-T), EIO Jetdirect accessory slot

**Environmental**
- ENERGY STAR
- WEEE, RoHS (EU, China, Korea, India), REACH
- EPEAT
- Electromagnetic Compliant with Class A requirements, including:
  - USA (FCC rules), Australia (ACMA), New Zealand (RS, China (MITI), Japan (VCCI), Korea KEK
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**Specifications**
- Printer dimensions (w x d x h): 1360 x 610 x 400 mm (53.5 x 24 x 16 in)
- Weight: 190 kg (419 lb)
- Max print area: 19.7 m²/hr (212 ft²/hr)
- Print speed: Up to 2400 x 1200 optimized dpi
- Media types: Bond and coated paper, technical paper, film, photographic paper, proofing paper, photo board, Banner, Silk, Vinyl, etc.

**Ordering information**
- Product: F257A | HP Designjet Z6600 60-in Production Printer (not available in Latin American countries)
- Accessories:
  - Q8750A | HP Designjet HD Pro Scanners
  - Q7496A | HP Designjet PostScript®/PDF Upgrade Kit
  - Q7494A | HP Designjet 60-in Print Media
  - Q8750A | HP Designjet HD Pro Scanners
  - Q7494A | HP Designjet PostScript®/PDF Upgrade Kit

**Original HP printheads**
- HP 771A Matte Black and Cyan Designjet Printhead
- HP 771A Matte Black and Light Cyan Designjet Printhead
- HP 771A Matte Black and Light Magenta Designjet Printhead
- HP 771A Matte Black and Light Photo Black Designjet Printhead

- HP 771A Matte Black and Light Magenta Designjet Printhead
- HP 771A Matte Black and Light Cyan Designjet Printhead
- HP 771A Matte Black and Light Photo Black Designjet Printhead
- HP 771A Matte Black and Light Magenta Designjet Printhead
- HP 771A Matte Black and Light Cyan Designjet Printhead
- HP 771A Matte Black and Light Photo Black Designjet Printhead
- HP 771A Matte Black and Light Magenta Designjet Printhead
- HP 771A Matte Black and Light Cyan Designjet Printhead
- HP 771A Matte Black and Light Photo Black Designjet Printhead
- HP 771A Matte Black and Light Magenta Designjet Printhead

**Original HP ink cartridges and maintenance supplies**
- Q8750A | HP Premium Instant-dry Satin Photo Paper
- Q6527A | HP Universal Instant-dry Gloss Photo Paper
- Q6714A | HP Designjet 60-in Media Bin
- Q6714A | HP Designjet 60-in Media Bin
- Q6714B | HP Designjet 60-in Media Bin

**Service and support**
- 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/designjetSupport.

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/OriginalInks.

For the entire HP Large Format Printing Materials portfolio, please see hplmedia.com.

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*HP Designjet Z6600 Production Printer, spindle, printheads, introductory ink cartridges, maintenance cartridges, printhead stand, take-up reel, 5-in spindle adapter kit, quick reference guide, setup poster, startup power cord.*

9 Mechanical printing time. Printed in Fast mode with EconoMode on, using HP Bright White Inkjet Paper (Bond) and Original HP inks. Measured on a 60-in printer.

10 Mechanical printing time. Printed with HP V60 Photo Inks.

11 ICC absolute colorimetric accuracy on HP Premium Instant Dry Photo Paper with Original HP inks.

12 With HP-Premium Instant-dry Gloss Photo Paper and Original HP inks, right after calibration.

13 HP Premium Instant-dry Gloss Photo Paper with HP V60 Photo Inks.

14 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.

15 HP DesignJet SmartStream only support PostScript printers. If your printer requires an accessory to handle PostScript, you must install the accessory to use the printer with HP Designjet SmartStream. For further up-to-date information, please see hp.com/go/designjetSmartstream.

16 Only in selected US channels.

17 Only in selected US channels.

18 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.

19 HP Large Format Media take-back program availability varies. Recycling programs may not exist in your area. See hp.com/recycle for details.

20 Display performance rating for interior display/away from direct sunlight, underwater by HP Image Permanence Lab and/or by Wilhelm Imaging Research, Inc. on a range of HP media with Original HP inks. See hplmedia.com.

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For more information, please visit hp.com/go/DesignjetZ6600

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