HP Designjet Z2100 & Z3100 Photo Printer Series

Overview

The new HP Designjet Z Photo Printer Series expands HP's professional printing portfolio for creative professionals with an automated, intuitive experience in image reproduction.

Leveraging HP Vivera pigment ink technology (introduced with the HP Photosmart Pro B9180), together with new built-in color management technologies and an intelligent ink delivery system, the HP Designjet Z Series produces exquisite, museum-quality photographs – print after print.

The industry's first-ever embedded spectrophotometer greatly simplifies accurate color-matching for the HP Designjet Z2100 8-ink and HP Designjet Z3100 12-ink printers – bringing to life true, vivid colors with the touch of a button. Professionals ultimately save time and effort as they can easily and consistently produce the colors they envision, time and time again.

Using HP Vivera pigment inks, the HP Designjet Z Photo Printer Series ensures unparalleled photo permanence – 200-plus years lightfastness[1] – on a wide variety of HP media. There are also 11 new HP media offerings to round out the total portfolio to more than 30 choices, further expanding flexibility and creative opportunities.

As the first large-format printers (24" and 44") to employ HP's Scalable Printing Technology, the HP Designjet Z Photo Printer Series provides superior reliability and optimized ink consumption. Even switching between matte and glossy printing is now possible without swapping ink cartridges and wasting time and ink to reconfigure the printer.

Key features and benefits

- The HP Designjet Z Photo Printer Series delivers a streamlined, automated color experience with museum-quality output.

- The HP Designjet Z2100 8-ink photo printer is an ideal solution for photographers, graphic designers, architects and commercial printers in need of high-quality, large-format prints and proofs. The HP Designjet Z2100 features HP Vivera pigment inks that include Three-Black inks.

- The HP Designjet Z3100 12-ink photo printer, ideal for creative professionals in photography, digital fine arts and pre-press, offers extended capabilities for museum-quality color and black-and-white prints on a wide variety of media, including fine art and glossy media. The HP Designjet Z3100 features additional HP Gloss Enhancer, and HP Vivera pigment inks including HP Quad Black inks.

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Consistent and accurate color with first-ever embedded spectrophotometer

- Featuring the first built-in spectrophotometer with GretagMacbeth/X-rite Eye-One Color Technology, the HP Designjet Z Photo Printer Series economically delivers consistent, accurate colors across a wide range of media.

- Industry-leading color gamut, with more than 80 percent Pantone coverage[2] and full support of main pre-press color standards such as Gracol and SWOP, enables brilliant, life-like photos and fine-art prints with excellent color rendition and fine gradations within the color space.

- Matte black, photo black and mid- and light-gray HP Vivera pigment inks are designed for true gray neutrality to produce smooth transitions, higher black optical density and smooth uniform color on glossy and matte media – without swapping ink cartridges.

- HP Gloss Enhancer with the HP Designjet Z3100 is used on photo media (with the exception of matte-finish papers) to produce images with uniform gloss from highlights to shadows, and eliminates bronzing as an image quality issue.[3] In addition, the HP Quad-Blacks significantly reduce metamerism issues in black and white prints.

- Consistent, reliable results over the life of the product – HP Vivera pigment inks are carefully designed to work with other elements of the printing system to provide reliable, stable performance and to help prevent ink and printhead nozzles from clogging inside the printer.

Produce exquisite long-lasting prints with HP Vivera pigment inks

- With 8- and 12-ink options, the HP Designjet Z Photo Printer Series offers precise, long-lasting color optimized for a variety of photo and fine-art papers that provide superior fade resistance and durability. Images can last more than 200 years[1] when using HP Vivera pigment inks.

- Print matte and photo black inks without swapping ink cartridges, eliminating wasted time and ink to reconfigure the printer.

- HP Vivera pigment inks offer a choice for customers who need a broader solution beyond dyes, offering professional image quality and long-lasting photo permanence, accurate and consistent color reproduction, and smooth transitions and detail across a wide range of paper.

- HP's industry-leading portfolio of media offers creative professionals more than 30 options, including photo, fine art, proofing, bond and coated papers, as well as canvas, vinyl, scrim and banner media options. The HP Designjet Z Photo Printer Series can print with or without borders.[4]

- HP Designjet Z2100's matte black, photo black and light gray HP Vivera pigment inks are designed for gray neutrality to produce smooth transitions and black optical density on glossy and matte media – without changing ink cartridges to reduce ink waste.

- HP Designjet Z3100 with HP Quad Black (matte black, photo black, gray and light gray) delivers beautiful black and white prints with true gray neutrality and significantly reduced metamerism.

True print confidence with HP dependable technologies

- HP's Scalable Printing Technology combined with the Optical Drop Detector and Proactive Printhead Maintenance features ensure efficient printing, prevention of nozzle clogs and optimized ink consumption.

- HP Easy Printer Care/HP Printer Utility Software helps the user proactively maintain the printer and manage printer status, desktop alerts and automatic updates, saving time and effort.

- HP Print Preview eliminates trial and error and reduces wasted ink and media with real-time layout and orientation preview from drivers on Mac and Windows®.

- HP Color Center effortlessly guides users through color management and printing; intuitive instructions enable easy ICC profile creation and installation.

Additional features

- The HP Designjet Z Photo Printer Series is PC and Mac compatible.[5]

- HP ProPrint Plug-in and Adobe Lightroom, co-developed with Adobe, enable the user to print expected colors on the first try. The free HP ProPrint Plug-in is expected to be available December 2006. The Adobe Lightroom "Calibrate Printer" button that launches color management tools directly from within the application is expected to available October 2006.

- HP's Advanced Profiling Solution,[6] co-developed with GretagMacbeth, provides additional options for profiling and system calibration.

- Adobe postscript 3 available thru EFI's RIP Designer Edition 5.1,[6] developed with HP-specific inputs, offers new photo features and an improved user interface, giving graphic designers full control over digital proofing needs. A postscript embedded version of the HP Designjet Z Photo Printer Series is expected to be available in Spring 2007.

- Imageprint v.6 photo RIP from Colorbyte is optimized for use by prosumers and professional photographers.

- ColorProof v.4 prepress RIP from GMG works directly with the embedded spectrophotometer for print verification.

Technical specifications

- Image quality:

    o Color accuracy: median <1.6 dE2000, 95 percent of colors < 2.8 dE2000[7]

    o Short term color stability: <1 dE2000, in less than 5 minutes[8]

    o Long term print-to-print repeatability: Average 0.5 dE2000, 95 percent of color <1.4 dE2000[8]

    o Maximum optical density: 4 L* /2.5D[9]

- Up to 2400 x 1200 optimized dpi

- 8- and 12-ink printing with HP 70 Vivera pigment inks

    o HP Designjet Z3100 features HP Vivera pigment inks and HP Gloss Enhancer: matte black, photo black, gray, light gray, magenta, light magenta, light cyan,

red, blue, green, yellow and gloss enhancer.

   o HP Designjet Z2100 utilizes matte black, photo black, light gray, cyan, light cyan, magenta, light magenta and yellow.

- Print speeds:

   o HP Designjet Z2100 and Designjet Z3100: Up to 15.0 min/page, D/A1 color image on glossy paper; up to 9.8 min/page, D/A1 color image on coated paper.

- Dimensions:

   o HP Designjet Z Series 24" models: 49.7 x 28.8 x 41.2 in; 1262 x 732 x 1047 mm

   o HP Designjet Z Series 44" models: 69.7 x 28.8 x 41.2 in; 1770 x 732 x 1047 mm

- Weight with stand:

   o HP Designjet Z Series 24" models: 143 lb/65 kg

   o HP Designjet Z Series 44" models: 189 lb/86 kg

- Standard Connectivity: 1 10/100 BaseT Ethernet, 1 USB 2.0 high-speed certified port, 1 EIO Jetdirect accessory slot.

Services and support
The HP Designjet Z Photo Printer Series comes with one-year Next Business Day Repair and one-year Remote Set-up & Usability. HP offers a variety of services and support packages to assist professionals throughout the process, from step-by-step set-up to ongoing printer maintenance and printing tips.

- HP Start-up Kit: A DVD included with the printer is loaded with Mac and Windows drivers and includes PDF manuals for easier access to information plus a multimedia video that walks users through assembly and operation of the printer.

- HP Online Knowledge Center: The user's center of expertise, the HP Online Knowledge Center, offers how-to multimedia training and illustrated guides on how to use the printer for common applications, as well as forums and support information.

- HP Color Expert Service[10] powered by X-Rite Color Services: A single point of contact for remote live assistance to get reliable answers to all color questions; also includes color management software and hardware, RIPs, design applications, output devices, drivers and operating systems.

- Additional installation, extended warranty and post-warranty service options are also available.

Supported supplies
HP Photographic Paper:
- New: HP Professional Satin Photo Paper
- New: HP Premium Instant-Dry Gloss Photo Paper
- New: HP Premium Instant-Dry Gloss and Satin Photo Paper
- HP Advanced Photo Paper, Glossy

- HP Advanced Photo Paper, Soft Gloss
- HP Universal Instant-Dry Photo Gloss
- HP Universal Instant-Dry Photo Semi-Gloss
- HP Photo Matte
- HP Photo Paper RC Matte

HP Digital Fine Art Media:
- New: HP Collector Satin Canvas
- New: HP Professional Matte Canvas
- New: HP Artist Matte Canvas
- New: HP Universal Matte Canvas
- HP Canvas Paper 180 gram
- HP Aquarella Art Paper
- HP Hahnemühle Watercolor Paper
- New: HP Hahnemühle Smooth Fine Art Paper (from 265g/m2 to 310g/m2)
- New: HP Hahnemühle Textured Fine Art Paper (from 265g/m2 to 310g/m2)
- New: HP Matte Litho-Realistic Paper

HP Proofing Paper:
- New: HP Professional High-gloss Contract Proofing Paper
- HP Professional Semi-gloss Contract Proofing Paper
- HP Proofing Matte

HP Specialty Media:
- HP Colorlucent Backlit UV
- HP Colorfast Adhesive Vinyl
- HP Universal Adhesive Vinyl
- HP Instant Dry Indoor Banner, Gloss
- HP Opaque Scrim
- HP Banner with Tyvek

HP Coated Paper
- HP Universal Heavyweight Coated Paper
- HP Heavyweight Coated Paper
- HP Super Heavyweight Plus Matte Paper
- HP Premium Heavy Weight Paper
- HP Premium Inkjet Paper

HP Bond Paper:
- HP Bond & Coated Paper
- HP Universal Inkjet Bond Paper
- HP Bright White Inkjet Bond Paper
- HP Universal Coated Paper

Additional information
More information about HP's Graphic Arts portfolio is available at
www.hp.com/go/graphicarts.

Pricing and availability[11]
Estimated U.S. MSRP street price for the HP Designjet Z2100 24" model is $3,395 and
the 44" model is $5,595. Expected to be available October 2006.

Estimated U.S. MSRP street price for the HP Designjet Z3100 24" model is $4,095 and
the 44" model is $6,295. Expected to be available in the first half of 2007.

[1] Display permanence rating by Wilhelm Imaging Research, Inc. on a range of HP creative and specialty
media. For details: www.hp.com/go/supplies/printpermanence.

[2] HP's preliminary, internal results have shown the HP Designjet Z Photo Printer Series is capable of
successfully simulating more than 80 percent of the PANTONE colors. HP Designjet Z2100 and Z3100
Photo Printers are pending PANTONE-licensing.

[3] Bronzing is eliminated as an image quality issue when HP Gloss Enhancer is used. HP Gloss Enhancer is
used on photo media, with the exception of matte-finish papers.

[4] Borderless printing possible on gloss and semi-gloss roll media.

[5] For list of all compatible operating systems, please refer to product data sheet.

[6] Available as an optional accessory.

[7] ICC absolute colorimetric accuracy on HP Proofing Matte.

[8] With HP Premium Instant Dry Photo Satin media right after calibration.

[9] With HP Premium Instant Dry Photo Gloss media.

[10] Available in North America, United Kingdom, Germany, France, Spain and Italy.

[11] Actual prices may vary.