

HP Designjet Z3100 Photo Printer series



BREAKTHROUGH COLOR: Achieve consistent & accurate color with the first ever embedded spectrophotometer⁽¹⁾

- Automated and simple creation of ICC profiles. HP's embedded spectrophotometer and an automated workflow bring simplicity and reliability to accurate profiling and precise printer calibration. HP's Advanced Profiling Solution offers additional options for profiling and calibrating your printing system.
- **Broad gamut coverage.** Over 80% PANTONE® coverage(2, and full compliance with prepress standards: SWOP, ISO, GRACOL, EUROSCALE, TOYO, FOGRA, and 3DAP.
- · Expect consistent color from print to print. Calibrate the printer and obtain print-to-print and printer-to-printer color repeatability.

NO LIMITS: Get exquisite prints that resist fading for over 200 years¹³ with a 12-ink printing system using HP Vivera pigment inks

- Fade and water resistant. Color and b&w prints resist fading for over 200 years on a range of HP papers and HP Hahnemühle papers and are water resistant on HP canvas, photo and proofing papers.
- Beautiful black-and-white prints with the HP Quad-Black ink set. HP Vivera pigment inks deliver true gray neutrality under different lighting conditions and produce smooth continuous tones and deep rich blacks.
- Superior gloss uniformity and elimination of bronzing with HP Gloss Enhancer⁴⁴. Used on glossy and semigloss photo papers to produce images with uniform gloss from highlights to shadows.

TRUE PRINT CONFIDENCE: Print with greater confidence thanks to dependable HP technologies

- Eliminate trial and error with real-time layout and orientation preview. Take the guess-work out of margins. Save time and materials.
- Glide effortlessly through color management and printing with the HP Color Center tool.
- Save time with HP Easy Printer Care/HP Printer Utility software. Monitor the status of printers & supplies and get the latest updates.
- Expect always-on quality with automatic servicing routines that are economical and convenient thanks to proactive printhead maintenance.
- Have your questions answered. Application settings and color management consultation at your finger tips with the HP Knowledge Center.



⁽² HP's preliminary, internal results have shown that the HP Designjet Z Photo Printer series is capable of successfully simulating over 80% of the PANTONE colors. HP Designjet Z2100 and Z3100 Photo Printers are pending PANTONE licensing

(4 Bronzing is eliminated as an image-quality issue when HP Gloss Enhancer is used. HP Gloss Enhancer is used on photo paper, with the exception of matte-finish papers.



⁽³ Display permanence rating by Wilhelm Imaging Research, Inc. on a range of HP creative and specialty media. For details: http://www.hp.com/go/supplies/printpermanence

DESIGNED FOR CREATIVE PROFESSIONALS

PROFESSIONAL PHOTOGRAPHERS

Create exquisite exhibition prints, portfolios, and digital albums

«The results are remarkable: something I feel proud and confident about putting out in public in a museum.»

Joel Meyerowitz, Joel Meyerowitz Photography

Consistently beautiful, whether it's in color or black and white

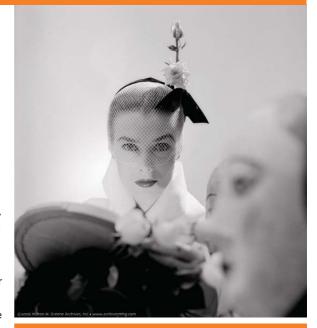
- Prints resist fading for over 200 years.(3
- Smooth color transitions and highlight and shadow details are preserved.
- Achieve truly neutral grays under different lighting conditions, continuous tones, uniform gloss, rich blacks, and the elimination of bronzing as an image-quality issue.⁽⁴⁾
- Switch between matte and glossy papers without having to swap black cartridges.

A care-free experience

- Printing of accurate and consistent colors is effortless thanks to the HP Color Center and automated media profiling.
- Added to Adobe[®] Lightroom is a Calibrate Printer button, enabling you to launch the printer's color management tools directly from the application, the result of close collaboration between HP and Adobe.
- Integrate one of a range of commercially available photo RIPs, such as the ImagePrint v.6 RIP from ColorByte. This RIP gives you advanced options, including advanced multiple-image placement, black-and-white split-toning, and PostScript® & PDF printing.

«The black and whites I printed are absolutely perfect. They're neutral in their grays, they have wonderful tonality and very, very heavy blacks (which I love).»

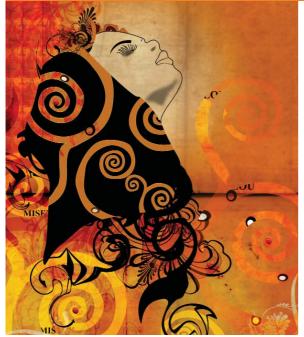
Thomas Hoepker, Magnum Photographer



«By accessing printer calibration directly from the Lightroom Print module, photographers using the HP Designjet Z series printers will be assured they're getting the most accurate results possible.»

Kevin Connor, Senior Director, Professional Digital Imagina, Adobe

DIGITAL FINE ARTISTS



«With the simplicity of the color profiling on this printer, HP has taken great strides in making it very simple to get great prints the first time.»

Bonny Lhotka, Digital Atelie

Free to experiment

«Hahnemühle FineArt is proud to be working with HP in bringing to market a user experience of this caliber. This is a great example of two market leaders capitalizing on synergies to raise the bar of expectation in the digital imaging world.»

Norbert Klinke, Director Sales and Marketing, Hahnemühle FineArt

Get true, consistent, and lasting colors on the substrates of your choice

- Realize your digital fine art in breathtaking color prints that resist fading for over 200 years⁽³⁾.
- You're free to use almost any art substrate you like with the confidence of retaining color fidelity and consistency.
- Colors are precisely controlled thanks to automated media profiling.

Fits seamlessly into the workflows of digital artists

- HP offers an extensive range of canvases, fine art papers, and photo papers for museum-quality results.
- HP and Hahnemühle have designed beautiful smooth, textured, and watercolor fine art papers.
- Print the desired colors on the first attempt from Adobe Photoshop® thanks to the free HP ProPrint Plug-in, which synchronizes application and driver settings.

Produce accurate, consistent, and stable prepress contract proofs

«The HP Designjet Z3100 printer is a major step forward for prepress. It has got a built-in spectrophotometer, which calibrates the machine and brings it into a known state, and, because it's built in, it's error free. This printer is like a color management center.»

Allan Roche, Pixel CMS Ltd.

Automated profiling, stable colors, and an extremely broad gamut

- Accurate and consistent colors are assured through automated ICC profile generation.
- Colors stay true and stabilize at less than 1 ΔE in under 5 minutes.
- The printer covers over 80% of PANTONE® colors(2 and completely encompasses the SWOP, ISO, GRACOL, EUROSCALE, TOYO, FOGRA, and 3DAP gamuts.

Integrated solutions that drastically shorten your workflow

- Automated closed-loop color consistency is achieved with the printer's embedded spectrophotometer, featuring GretagMacbeth's leading i1 color technology.
- Integrate one of a range of commercially available proofing RIPs, such as the Colorproof o4 RIP from GMG, for a customized proofing solution. This leading prepress RIP combines with the printer to form a cost-effective solution that verifies the press-standard color compliance of your proofs.
- Or add the optional EFI Designer Edition 5.1 RIP for HP (XL version), developed for graphic designers and providing CMYK workflow support, PostScript and PDF printing, and accurate spot color management.

«Metamerism is very important for us, and I've seen that this inkjet printer has the lowest metamerism in the marketplace.»

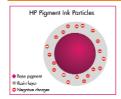
Allan Roche, Pixel CMS Ltd.



«By combining the embedded eye-one color spectrophotometer together with the latest printing technologies found in the new HP Designjet Z Photo Printers, new ground-breaking standards in large-format printing have been established, providing the industry with a new benchmark.»

Francis Lamy, Executive VP and CTO, X-Rite

KEY TECHNOLOGIES



Electrosteric Encapsulation Technology



HP Vivera pigment inks offer outstanding image quality and fade resistance on a wide variety of photo and fine art media, along with water resistance on a range of HP creative and specialty media. HP's proprietary Electrosteric Encapsulation Technology optimizes the pigment chemistry and ink properties for stability and performance to ensure a broad color gamut, print permanence, excellent gloss uniformity, and reliable, accurate, and consistent printing.

The HP embedded spectrophotometer with i1 Color Technology from GretagMacbeth is mounted on the printer carriage and revolutionizes professional color workflows by automating media profiling. It allows users to automatically generate custom RGB ICC profiles for their preferred media and provides accurate measurements for printer calibration that delivers print-to-print and printer-to-printer color consistency. Also, with the optional HP Advanced Profiling Solution, you can edit and modify existing profiles and create CMYK profiles.



HP's 12-ink printing system involves six HP 70 Printheads, each printing two colors of ink with 1,056 nozzles per color. The system includes the HP Gloss Enhancer and HP Vivera pigment inks in seven colors and four blacks. These inks deliver an exceptionally broad color gamut for photographic and graphics art applications, superb neutral tones, and deep blacks on matte, glossy, semi-gloss, and fine art papers.

An extensive media portfolio: HP offers a portfolio of 9 photo papers, 10 digital fine art papers, 3 proofing papers, 9 bond and coated papers, and over 30 other HP media. All have been tested with HP 70 Vivera pigment inks to deliver consistent, museum-quality prints that withstand the demands of handling, display and storage expected of professional prints.

SFRVICES

The HP Start-up kit, HP Knowledge centre, and HP Easy Printer Care (Windows®)/Printer Utility (Mac®) are all complimentary services provided by HP to assist you during installation and throughout your printing workflow; visit www.hp.com/go/graphic-arts for full details. For enhanced services purchase from the HP Professional Graphic Services portfolio, which includes:

- HP Installation Care Pack Services: Easier to get your printer up and running in minimum time. Stand alone and network options available.
- The HP Color Expert Service powered by X-Rite Color Services: Problems getting the right color from your printer? Call one phone-number for immediate, reliable answers to all of your questions on color, color management software and hardware, RIPs, design applications, output devices, drivers and operating systems.
- HP Care Pack and Post Warranty Services: Reduce downtime and mitigate the risk of unbudgeted repair costs. 3-5 year warranty extensions available. See back page for ordering information and visit www.hp.com/go/pgs for more details on all options.

HP Designjet Z3100 Photo Printer series

Technical specifications	
Print speed	
Best	1
	9
Normal	7.
	4
Draft	5
	2
Resolution	
Best (Color and B&W)	2
Normal (Color and B&W)	6
Draft (Color and B&W)	6
Memory	1
aa Ir	
Media	S
Handling	P
Types	
	(ŀ
	12 iv
	Ty
	h
Maximum weight	5
Size	H
3120	Le
	H
	Le
Maximum external roll diameter	5
Maximum roll length	3
Printing	
Margins	R
	S
Technology	Н
Ink cartridge colors	Li
-	m
Ink types	Н
Ink drop	4

Print Languages Image quality Color accuracy

Ink cartridge size

Line accuracy

Water resistance

Lightfastness

Connectivity

Maximum print length

Nozzles

Short term color stability Long term print-to-print repeatability Maximum optical density

5 min/page on D/A1 or up to 17 ft²/h (color image on glossy paper) 9.8 min/page on D/A1 or up to 31 ft²/h (color image on coated paper) 7.9 min/page on D/A1 or up to 38 ft²/h (color image on glossy paper) .8 min/page on D/A1 or up to 72 fi^2/h (color image on coated paper) .8 min/page on D/A1 or up to 52 fi^2/h (color image on glossy paper) .0 min/page on D/A1 or up to 150 ft²/h (color image on coated paper)

2400 x 1200 optimized dpi $0.00 \times 0.00 \, dp$ dp 000 x 000

28 MB Standard memory, 40 GB hard disk

heet feed, roll feed, automatic cutter (cuts all media except canvas) Photographic paper (satin, gloss, semi-gloss, matte), proofing paper high-gloss, semi-gloss, matte), fine art printing material (canvas, mooth, textured, watercolor), self-adhesive and vinyl (polypropylene, rinyl), sign and banner (display film, banner, scrim, polypropylene, Tyvek®, outdoor paper), backlit, bond and coated (bond, coated, eavyweight coated, super heavyweight coated)

HP Designjet Z3100 24" Photo Printer: All standard sizes larger than etter/A4 up to 24 in/609 mm wide

1P Designjet Z3100 44" Photo Printer: All standard sizes larger than

etter/A4 up to 44 in/1117 mm wide

11 in/140 mm 300 ft/91 m

Roll: $0.2 \times 0.2 \times 0.2 \times 0.2$ in/ $5 \times 5 \times 5 \times 5$ mm (full bleed available on glossy roll media) **Sheet:** $0.2 \times 0.2 \times 0.2 \times 0.55$ in/ $5 \times 5 \times 5 \times 14$ mm HP Vivera pigment inks, HP Quad-Black ink set, HP Embedded Spectrophotometer

ight cyan, light magenta, light gray, photo black, gray, gloss enhancer, magenta, yellow, matte black, red, green, blue

Vivera pigment inks and HP Gloss Enhancer pl (light cyan, light magenta, light gray, photo black, gray, gloss enhancer) 6 pl (magenta, yellow, matte black, red, green, blue)

130 ml ink cartridges (69 ml introductory cartridges included in 24" printer box, not available as replacement cartridges); 130 ml Ink Cartridge Twin Packs also available 2 colors per printhead, 1056 nozzles per color 300 ft/91 m (OS and application dependent)

+/- 0.2 %

Over 200 years (3 fade resistance Water-resistant on a range of HP creative and specialty media

Standard: One 10/100 BT Ethernet, One USB 2.0 high-speed certified port,

One EIO Jetdirect accessory slot

Optional: HP Jetdirect EIO print servers
Standard: HP PCL3GUI

Optional: PS via optional software RIP, HP-GL2/RTL optional software solution

Median <1.6 dE2000, 95% of colors <2.8 dE2000⁽⁵⁾ <1 dE2000 in less than 5 minutes (6

Average <0.5 dE2000, 95% of colors <1.4 dE2000⁶

4 L* / 2.5 D⁷

ICC absolute colorimetric accuracy on HP Proofing Matte paper
With HP Premium Instant Dry Photo Satin media, right after calibration
With HP Premium Instant Dry Photo Glass media
Replacement ink cartridges available are HP 70 130 ml Ink Cartridges and HP 70 130 ml Ink Cartridge Twin Packs. For more information, visit www.hp.com/go/p

Stand not included in the box in Asia Pacific for 24" model

Environmental ranges
Operating temperature
Recommended operating temperature Storage temperature Recommended operating humidity Recommended storage humidity

41 to 104°F/5 to 40°C 59 to 95°F/15 to 35°C -13 to 131°F/25 to 55°C 20 to 80% RH 0 to 95% RH

Sound pressure, active Sound pressure, standby

Sound power, active Sound power, standby ver consumption

Active Maximum 200 watts 200 watts 27 watts 43 watts Standby Input voltage auto-ranging 100 to 240 VAC (+/- 10%), 50/60Hz (+/- 3 Hz), 2 Amp max Power requirements

Certification

Color Services

IEC 60950-1 compliant, EU IVD and EN 60950-1 compliant, certified by CSA for Canada and US, Argentina IRAM, Singapore PSB, Russia GOST, China CCIB, Taiwan BSMI Compliance for Class B products: EU (EMC Directive), USA (FCC rules), Canada (DoC), Australia (ACA), New Zealand (MoC), China (CCC), Japan (VCCI), Korea (MIC) and Taiwan (BSMI) Electromagnetic

Energy Star® compliant Press standard Yes 100% coverage of SWOP, ISO, GRACOL and 3DAP

1 year warranty with on-site, next business-day service

UF044PA/PE HP 1 yr Post Warranty Next-Business-Day Service Warranty extensions

UF035A/E HP 3 yr Next-Business-Day Service UF036A/E HP 4 yr Next-Business-Day Service UF037A/E HP 5 yr Next-Business-Day Service H7604A/E HP Installation mid-high Designjet Service H4518A/E HP Network Install Designjet Windows®/Mac® Service HP Care Pack Services

UF050A/E 1yr/5 incidents HP Color Expert Service (HP Color Expert Service available in US and Europe only. In Europe, check for availability in your country)

ommended system requirements	
Macintosh	Mac OS X v10.2, v10.3, v10.4 and
	later, PowerPC G4, G5, or Intel Core
	Processor, 1 GB Ram, 2 GB
	available hardware disk
Vindows	Microsoft Windows XP or 2000:
	Pentium IV, 3 GHz, 1GB RAM, 2 GB
	available hard disk
ensions (w x d x h)	
rinter with stand	HP Designjet Z3100 24" Photo Printer:
	49.7 x 28.8 x 41.2 in
	1262 x 732 x 1047 mm
	HP Designjet Z3100 44" Photo Printer:
	69.7 x 28.8 x 41.2 in
	1770 x 732 x 1047 mm
Shipping dimensions	HP Designjet Z3100 24" Photo Printer:
	57.8 x 30.7 x 29.1 in (NA, LAR, EMEA)
	1470 x 780 x 740 mm (NA, LAR, EMEA)
	66.35 x 30.3 x 23.2 in (AP)
	1660 x 770 x 590 mm (AP)
	HP Designjet Z3100 44" Photo Printer:
	77.2 x 30.5 x 23.6 in
	1960 x 775 x 600 mm
•	

HP Designjet Z3100 24" Photo Printer: 143 lb/65 kg HP Designjet Z3100 44" Photo Printer: 189 lb/86 kg HP Designjet Z3100 24" Photo Printer: 225 lb/102 kg (NA, LAR, EMEA) 195 lb/88.5 kg (AP) HP Designjet Z3100 44" Photo Printer: 271 lb/123 kg

What's in the box

Shipping

Printer with stand

Dime

HP Designjet Z3100 24" Photo Printer: spindle, printheads (6 \times 2 colors), ink cartridges (12 \times 69 ml)⁽⁸⁾, media high gloss photo sample roll (24 in \times 1.5 ft), stand (24")*, rear tray (24"), adaptor 3" KIT for spindle (2), quick reference guide, set-up poster, USB cable, power cord, HP Start-up kit including printer software and training

HP Designjet Z3100 44" Photo Printer: spindle, technical spindle, printheads $(6 \times 2 \text{ colors})$, ink cartridges $(12 \times 130 \text{ ml})$, media high gloss photo sample roll (36" x 15 ft), stand (44"), rear tray (44"), 3" KIT for spindle (2), quick reference guide, set-up poster, USB cable, power cord, HP Start-up kit including printer software and training

Ordering information