

# HP Designjet Z3100 Photo Printer series

Featuring the HP Designjet Z3100 Photo Printer  
and the HP Designjet Z3100ps GP Photo Printer



## Breakthrough color

Achieve consistent & accurate color with the first ever embedded spectrophotometer<sup>1</sup> with i1 color technology

- **Automated and simple creation of ICC profiles.** HP's embedded spectrophotometer with i1 color technology makes profiling and printer calibration simple, reliable, and accurate. HP's Advanced Profiling Solution offers advanced color management options, such as CMYK profiling and editing.
- **Broad gamut coverage.** Over 80% PANTONE<sup>®</sup> coverage,<sup>2</sup> 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 years<sup>3</sup> 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<sup>3</sup> on a range of HP papers and HP Hahnemühle papers and are water resistant<sup>4</sup> on a range of 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 Enhancer.**<sup>5</sup> Used on glossy and semi-gloss photo papers to produce images with uniform gloss from highlights to shadows.

- **Direct PostScript and PDF support (Z3100ps GP only).** The Embedded Adobe<sup>®</sup> PS/PDF RIP (Postscript<sup>®</sup> level 3, PDF 1.6, fully Acrobat<sup>®</sup> 7 compatible) and driver give you optimum networkability and PostScript color management.

## True print confidence

Print with greater confidence thanks to dependable HP technologies

- **Eliminate trial and error with real-time layout and orientation preview.** HP's printer driver and embedded Web server let you preview the layout, size, and position of your print on your paper to save time, effort, and money.
- **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 and 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.
- **Remote printer management is fast and easy using any web browser.** You can conveniently manage your printer remotely for the printer status, job accounting, and ink and media usage. The Z3100ps GP expands these capabilities to include job submission, nesting, queuing, and permanent storage of files.

<sup>1</sup> In a drop-on-demand inkjet large format printer of its category.

<sup>2</sup> 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, Z3100, and Z3100ps GP Photo Printers are pending PANTONE licensing

<sup>3</sup> 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](http://www.hp.com/go/supplies/printpermanence)

<sup>4</sup> Water resistance ratings tested by HP Image Permanence Lab on a range of HP media using Original HP 70 Vivera inks. For details: [www.hp.com/go/supplies/printpermanence](http://www.hp.com/go/supplies/printpermanence)

<sup>5</sup> 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.

## Professional Photographers

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

Joel Meyerowitz  
Joel Meyerowitz Photography

"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 Imaging  
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 Atelier

"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 Klinka  
Director Sales and Marketing  
Hahnemühle FineArt



## Create exquisite exhibition prints, portfolios, and digital albums

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

- Prints resist fading for over 200 years.<sup>3</sup>
- 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.<sup>5</sup>
- 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 and PDF printing.

## Free to experiment

### 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.<sup>3</sup>
- 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 your workflow

- 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 Photosmart Pro print plug-in for Adobe Photoshop, which synchronizes application and driver settings.





## Produce accurate, consistent, and stable prepress contract proofs

### 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 DE in under 5 minutes.
- The printer covers over 80% of PANTONE colors<sup>2</sup> and completely encompasses the SWOP, ISO, GRACOL, EUROSCALE, TOYO, FOGRA, and 3DAP gamuts.
- PANTONE color certification.<sup>6</sup>

### Integrated solutions that drastically shorten your workflow

- Automated closed-loop color consistency is achieved with the printer's embedded spectrophotometer, featuring X-Rite leading i1 color technology.
- To achieve an advanced proofing solution, integrate one of a range of commercially available proofing RIPs, such as the Kodak Matchprint Inkjet proofing solution or the ColorProof 04 RIP from GMG. These leading prepress RIPs combine with the printer to form a cost-effective solution that verifies the press-standard color compliance of your proofs.
- Complete end-to-end color workflow management in the box with HP's Advanced Profiling Solution that is standard for the Z3100ps GP.

### Key technologies

HP Vivera pigment inks offer outstanding image quality and fade resistance, along with water resistance, on a wide 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 X-Rite is mounted on the printer carriage and revolutionizes professional color workflows by automating media profiling, allowing users to automatically generate custom RGB ICC profiles for their media and provides accurate

measurements for printer calibration that delivers print-to-print and printer-to-printer color consistency. Also, with the HP Advanced Profiling Solution (included with the Z3100ps GP), 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.

### Services

The HP Start-up kit, HP Knowledge center, 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](http://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](http://www.hp.com/go/pgs) for more details on all options.

## Prepress Specialists

"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.

"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 CIO  
X-Rite

<sup>6</sup> Z3100ps GP model using HP Premium Instant-dry Gloss Photo Paper

