Repro Products

HP

HP DESIGNJET
Z PRO PRINTERS

The highest professional photo quality
and precision[1] large-format solutions

HP DESIGNJET
Z PRO PRINTERS

EXCEPTIONAL IMAGE QUALITY[1]

With HP DesignJet Z Pro printers, you can deliver the widest color gamut[1] with RGB HP Vivid Photo Inks and achieve color accuracy and consistency thanks to the embedded spectrophotometer.[2] With the core technology from HP, such as HP Pixel Control and the HP Gloss Enhancer Kit,[3] you can expect exceptional quality,[1] smooth gradients, and superior gloss uniformity.[3]

HIGH PRODUCTIVITY

Take on more projects without worrying about deadlines. Print up to 46% faster with better print quality[4] and gain efficiency with the spindle-less system, the automatic roll feed, and the dual roll option. Take advantage of our universal HP HDNA printheads and recyclable 1-liter HP Eco-Carton ink cartridges[5] for the HP DesignJet Z9+ Pro to reduce supplies interventions and help increase your printer uptime.

SMART PRINTING

Wherever you are, HP DesignJet Z Pro printers have got you covered. Control your print operations from virtually anywhere, easily share media presets remotely, and act fast receiving notifications on supplies, system, and connectivity status with HP PrintOS.[6]

WORLD'S MOST SECURE[7]

Spend less time worrying and more time doing. With HP DesignJet Z Pro printers, you can have peace of mind, knowing your business is safe against attacks and malware. Get the best data and network protection[7] with built-in security features and keep your devices secure, setting security preferences any time.
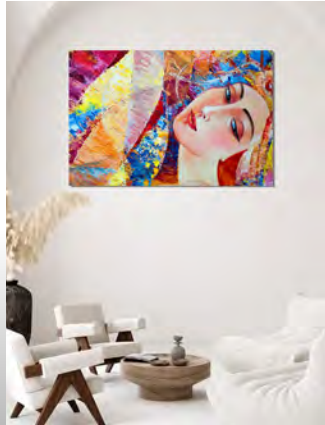
DISCOVER THE POSSIBILITIES

PROFESSIONAL PHOTOGRAPHY

Print large-format professional photo quality with confidence with an expanded color gamut enabled by RGB HP Vivid Photo Inks.[8]

FINE ART REPRODUCTION

Produce exceptional fine art reproductions for galleries and artists[1] on a range of printing materials from canvas to fine art papers.

POP/POS RETAIL SIGNAGE

Create appealing advertising on multiple types of materials to give your store a premium feel with high-impact graphics.

GIS MAPS

Deliver large-format maps that communicate broad-scale spacial information with the highest precision and detail.[9]

IMPACTFUL TECHNOLOGIES AND CAPABILITIES

HP PrintOS[6]
Remote monitoring

HP Pixel Control
Smooth gradients and distinct shades of color

Universal, user-replaceable HP HDNA printheads
Increased printer uptime and fine details

HP Connection Inspector, HP Secure Boot, and Whitelisting
The world's most secure large-format printer[7]

Spectrophotometer[2]
Color accuracy, consistency, and media profiling

Smart front panel
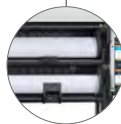4.3-in (10.9-cm) color touchscreen with fast reprint

Optional HP Gloss Enhancer Upgrade Kit
Superior gloss uniformity[3]

HP Eco-Carton ink cartridges
80% plastic reduction[10] - 1 liter (HP DesignJet Z9⁺ Pro) and 500 ml (HP DesignJet Z6 Pro)

Spindle-less, automatic roll feed and optional multifunction roll enabling second roll or take-up reel
Fastest media handling[11]

Chromatic RGB HP Vivid Photo Inks
Widest color gamut[1] and water- and fade-resistant prints[12]

HP PIXEL CONTROL

Deliver exceptional image quality with confidence[1]

HP Pixel Control delivers sharp details, careful control, and smooth gradients, even for challenging color combinations. HP Pixel Control makes direct choices about which types of pixels to combine in each area in a print to mirror the way the eye sees the world around us.

Without HP Pixel Control

With analog color processing, an image is separated and processed in ink layers, giving little control over ink combinations that can result in:

• Reduced detail and contrast
• Reduced color vibrancy
• Contours, artifacts

With HP Pixel Control

HP has reinvented how color is controlled by developing a technology that harnesses the full potential of digital printing.

Color is defined and composed at every pixel, unlocking new ink combinations.

• Sharp details
• Rich dark colors
• Smooth color gradients

Ink Layers

Pixel Types

Layers

Enlarged pixels

Ink layers used

20% C	15% R	12% G	10% Y
25% lg	40% mg	50% k	

Pixels used

1% R	21% lg	13% C+ lg	6% w
3% C+ mg	2% C	3% G+G	5% Y+ lg
11% G	3% Y+ mg	10% R+lg	6% R+ mg
7% mg	1% Y+ m	2% m+mg	4% mg+mg+G

HP HDNA

HP High Definition Nozzle Architecture

Produce prints with clear details and high-contrast color with dual drop weight technology powered by HP High Definition Nozzle Architecture (HDNA) printheads. Using dual drop weight technology, high-definition HP printheads produce a combination of large drop sizes for robust area fills at fast speeds, while small drop sizes reduce visible grain—eliminating the need for light colored inks.
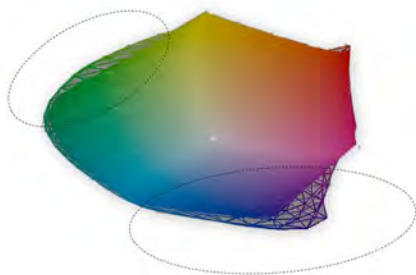
PRODUCTIVITY
Large drop size - 7 pl

REDUCES VISIBLE GRAIN
Small drop size - 3 pl

THE WIDEST GAMUT[1]

HP HDNA printheads, together with HP Pixel Control, enable the widest color gamut in your prints, achieving 93% PANTONE® coverage—26% more gamut compared to the previous generation of HP DesignJet photo printers.[13] This way, you can reach or exceed the image quality of a 12-ink printer using just 9 inks.

SPECTROPHOTOMETER[2]

The spectrophotometer,[2] embedded with the HP DesignJet Z9⁺ Pro, enables color accuracy and consistency, so that you can work with a wide range of materials, creating your own ICC profiles or downloading them directly from media vendors' websites.[14]

GLOSS ENHANCER[3]

Using the optional gloss enhancer upgrade kit, you can upgrade to superior gloss uniformity.[3] Gloss enhancer is a feature that helps minimize bronzing on glossy and semi-glossy photo papers and produces images with uniform gloss, from highlight to shadows.

Gamut coverage comparison*

* Solid shape corresponds to HP DesignJet Z6810 Production Printer. Wireframe corresponds to HP DesignJet Z9⁺ Pro 64-in Printer.

HIGH PRODUCTIVITY AT EVERY STAGE

IDEAL FOR PRODUCTION DEMAND

Take on more jobs. Print up to 18% faster with better quality on satin photo media and 46% faster on canvas.[4]

EFFICIENT AND ERGONOMIC DESIGN

Designed with the user in mind, the HP DesignJet Z Pro printers deliver the fastest media handling experience[11] prioritizing usability with the spindle-less, automatic roll feed and the dual roll option.

+40% FASTER MEDIA LOADING[15]

+ AVOID HAVING A "KEEP OUT" AREA IN YOUR OFFICE WITH THE SPINDLE-LESS SYSTEM

+ REDUCE MEDIA INTERACTIONS WITH THE AUTOMATIC ROLL FEED

+ SAVE 90 SECONDS EVERY MEDIA CHANGE WITH THE DUAL ROLL OPTION[16]

+ ENJOY A COMFORTABLE AND EASY LOADING EXPERIENCE

REDUCED SUPPLIES INTERVENTION RATE

- Recyclable 1-liter HP Eco-Carton ink cartridges for the HP DesignJet Z9+ Pro help reduce supplies interventions.[5]
- Universal, user-replaceable printheads are compatible with any of the inks for easy replacement and stock management.

Optional multifunction roll (works as a take-up reel or second roll with automatic roll feed)
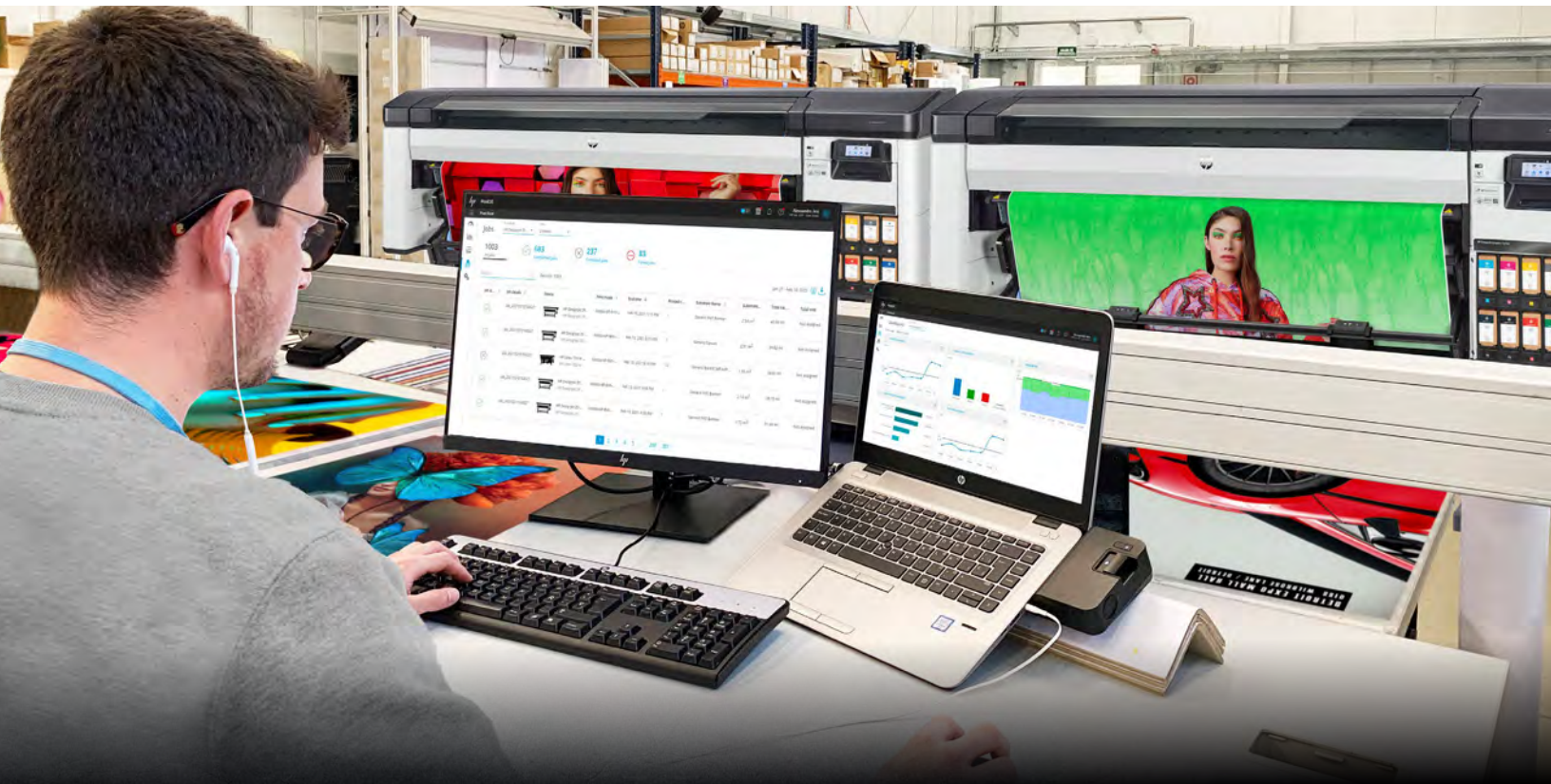

Software-managed roll-switch capability

SMART PRINTING

Gain control of your print operations thanks to HP PrintOS[6] cloud-based technology designed to maximize uptime, provide unprecedented line-of-sight into your business, and simplify production processes.

Control your print operations virtually anywhere

- Stay on top of daily projects and make informed decisions based on real-time data with HP PrintBeat.[6]
- Easily share media presets remotely and gain visibility over operator routines with the HP Configuration Center.[6]
- Gain visibility to your HP connected printers and monitor their status, downtime, ink, and substrate consumption with the HP PrintOS mobile app.[6]
- Download third-party media profiles directly from your printer or desktop with HP PrintOS.[6]

Enjoy seamless integration with your existing workflows

- Confidently integrate with your existing workflows thanks to HP's extensive RIP certification program.[17]
- Externally import ICC profiles from RIPs to adjust to your preferred ICC colors.

WORLD'S MOST
SECURE
Large-format Printers[7]

Firewalls alone cannot withstand attacks from sophisticated hackers.
You must apply multiple layers of protection at every infrastructure endpoint.
Help protect your devices, data, and documents with security solutions from HP.

Protect your devices

- HP Secure Boot
- Whitelisting
- Front Panel Access Lock
- Disable network ports and protocols

Protect your data

At rest

- Self-encrypted hard drive
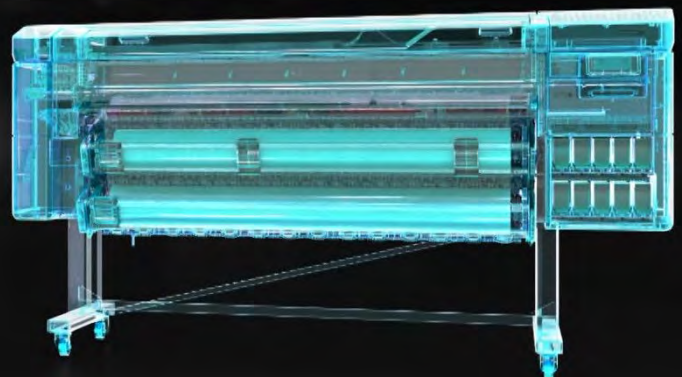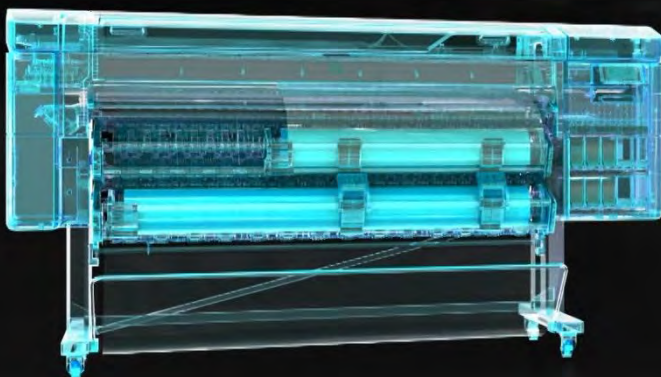- Secure File Erase
- Secure Disk Erase

In transit

- Encrypted communications

Protect your documents

- Pull printing
- PIN printing

FUEL YOUR SUCCESS WITH CONFIDENCE

Maximize your printer uptime and gain peace of mind with HP Services. Covering installation, extended support and maintenance, and a variety of value-added services, we provide the professional support you need to get the most out of your printer.

HP CONTROL PRINT

Easily run print quality diagnostics with HP Control Print.[18] One single plot for diagnostics—reduced ink and media waste.

HP SUPPORT ASSISTANT

Remotely resolve common issues any time of the day or night, using HP Support Assistant's troubleshooters and HP's Virtual Agent.[19]

HP CARE PACKS

Take advantage of our Support Care Packs[20]—warranty extensions that provide remote assistance, parts and onsite support for your printer, helping you improve product uptime.

HP DESIGNJET
Z PRO PRINTERS

	HP DesignJet Z9+ Pro 64-in Printer	HP DesignJet Z6 Pro 64-in Printer
Print width	1626 mm (64 in)	
Ink cartridges	9 inks: C, M, Y, mK, pK, G, CR, CG, CB (Gloss Enhancer - optional)	6 inks: C, M, Y, mK, pK, CR
Cartridge size	1 liter	500 ml
Print speed	Best Glossy Paper: 152 ft²/hr (14.1 m²/hr)[21]	Fast Plain Paper: 1055 ft²/hr (98 m²/hr)
Main accessories	Take-up reel, multifunction roll, gloss enhancer upgrade kit, PostScript®/PDF upgrade kit	Take-up reel, multifunction roll, PostScript®/PDF upgrade kit
Remote monitoring	HP PrintOS[6]	
Security	All security protocols	

1. Based on the HP DesignJet Z9+ Pro Printer. Highest professional photo quality based on widest color gamut. Testing commissioned by HP and performed by Sogeti in January 2021 comparing the HP DesignJet Z9+ Pro 64-in Printer and comparable competitive printers that represent the majority market share worldwide as of 2020 according to IDC, comparing gamut volume in CIE Lab units (the higher, the better) printing on HP Premium Instant-dry Satin Photo Paper and Best mode. Test performed under the same conditions in all printers measuring the TC9.18 target with the i1 spectrophotometer from X-rite.

2. Embedded in the HP DesignJet Z9+ Pro 64-in Printer is an i1 spectrophotometer 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.

3. Based on testing commissioned by HP and performed by Sogeti in January 2021 comparing the HP DesignJet Z9+ Pro 64-in Printer and comparable competitive printers that represent the majority market share worldwide as of 2020 according to IDC, by comparing the standard deviation of gloss level in GU units at 20° measurement angle (the lower, the better) printing on photo gloss paper and Best mode. HP DesignJet Z9+ Pro 64-in Printer tested with HP Premium Instant-dry Gloss Photo Paper in Best mode and Gloss Enhancer activated. HP Gloss Enhancer can be used on photo paper with the exception of matte-finish papers. Not included, sold separately.

4. Based on internal HP testing, January 2021 compared to the HP DesignJet Z6810 60-in Production Printer. Using HP Premium Instant-dry Satin Photo Paper in Best mode, the HP DesignJet Z9+ Pro 64-in Printer can achieve speeds of 152 ft²/hr (14.1 m²/hr) compared to the HP DesignJet Z6810 60-in Production Printer that can achieve speeds of 129 ft²/hr (12.0 m²/hr). Using HP Artist Matte Canvas paper, in Normal mode, the HP DesignJet Z9+ Pro 64-in Printer can achieve speeds of 205 ft²/hr (19 m²/hr) compared to the HP DesignJet Z6810 60-in Production Printer that can achieve speeds of 140 ft²/hr (13 m²/hr).

5. The ink cartridge HP Eco-Carton outer carton is 100% recyclable through local cardboard/paper programs. Inner materials including the ink bag are 55% recyclable and can be returned free of charge to the HP Planet Partners program for reprocessing of plastic parts. Zero landfill. For take-back of ink bag/printheads/prints, visit hp.com/recycle to see how to participate and for HP Planet Partners program availability; program may not be available in your jurisdiction.

6. Requires an HP PrintOS account, Internet connection, and connected Internet-capable device. For more information, see printos.com.

7. Based on comparison of published security specifications commissioned by HP and performed by Sogeti in January 2021. Comparison of the HP DesignJet Z6 Pro and Z9+ Pro 64-in Printers and competitors that represent the majority market share worldwide as of 2020 according to IDC. Comparison matrix and further details available upon request.

8. RGB HP Vivid Photo Inks are compatible with the HP DesignJet Z9+ Pro Printer and HP DesignJet Z9+ PostScript® Printer series only.

9. Highest precision based on testing commissioned by HP and performed by Sogeti in March 2021 comparing the HP DesignJet Z6 Pro and Z9+ Pro 64-in Printers and comparable competitive printers that represent the majority market share worldwide as of 2020 according to IDC, by comparing the minimum distance between two lines necessary to correctly reproduce the lines (the lower the distance, the higher the precision) printing on coated paper and Normal mode.

10. The ink cartridge HP Eco-Carton outer carton is 100% recyclable through local cardboard/paper programs. Inner materials including the ink bag are 55% recyclable and can be returned free of charge to the HP Planet Partners program for reprocessing of plastic parts. Zero landfill. For take-back of ink bag/printhead/prints, visit hp.com/recycle to see how to participate and for HP Planet Partners program availability; program may not be available in your jurisdiction.

11. Based on testing commissioned by HP and performed by Sogeti in January 2021 comparing the HP DesignJet Z6 Pro 64-in Printer and the HP DesignJet Z9+ Pro 64-in Printer to comparable competitive printers that represent the majority market share worldwide as of 2020 according to IDC, by loading a 44-in roll of Oce draft paper 75g. Measuring time from loading the roll in the "roll holder" until the printer finishes the loading. Test performed under the same conditions in both printers (loading upper/top roll and using default settings for skew and size detection).

12. Performance may vary based on writing system differences. Print permanence estimates by HP Image Permanence Lab based on the same formulation of HP Vivid Photo Inks used with the HP DesignJet Z6200 Photo Production Printer, using 6 inks. Water resistance performance varies based on printer and print profile. Water resistance testing by HP Image Permanence Lab on a range of HP media and follows ISO 18935 method. For more information, see HPLFMedia.com/printpermanence.

13. Measured with Konica Minolta FD-9, with HP Premium Instant-dry Gloss Photo Paper in Best print mode (with Extra Passes selector enabled). Using gamut construction method = alpha shape with value = 1000, without color management.

14. For more information, visit hp.com/go/DesignJetOriginalHPinks.

15. Up to 40% less time based on internal HP testing in February 2021 of the HP DesignJet Z6 Pro and Z9+ Pro 64-in Printers compared to HP DesignJet Z6610/Z6810 60-in Production Printers without second roll option. HP DesignJet Z Pro Series 64-in Multifunction Roll sold separately.

16. Based on internal HP testing, January 2021 comparing the HP DesignJet Z9+ Pro 64-in Printer with the HP DesignJet Z6800 and Z6810, and the HP DesignJet Z6 Pro 64-in Printer and HP DesignJet Z6600 and Z6610, by loading a 60-in roll of plain paper. Measuring time from loading the roll in the "roll holder" until the printer finishes the loading. Test performed under the same conditions in all printers (loading upper/top roll and using default settings for skew and size detection).

17. For a list of HP certified RIPs, visit hp.com/us-en/large-format-printers/designjet-printers/zseries-rips.html.

18. HP Control Print is an assisted guide for image quality troubleshooting embedded in HP DesignJet Z6 Pro and Z9+ Pro 64-in Printers.

19. HP Support Assistant 8 requires .NET Framework 4.5 or later. HP Virtual Agent available in selected countries.

20. For more information, visit hp.com/go/cpc.

21. Maximum rate of output for color image 100% color coverage. Printed on maximum roll size, with Original HP Vivid Photo Inks.

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