HP Designjet Z5400 PostScript® ePrinter

The first multi-roll ePrinter for graphics to produce high-quality, long-lasting prints efficiently

Fast delivery with two rolls and a smart workflow

- Be ready—meet urgent requests using the first ePrinter for graphics with multi-roll and smart media switching.

- Increase uptime with fewer roll changes and useful notifications for ink levels, firmware updates, and more.

- Preview, crop, and print PDF, PostScript®, HP-GL/2, TIFF, and JPEG files fast, using HP Instant Printing PRO.

- Shorten your turnaround times with a 320 GB hard drive, borderless printing[1], and fast-drying HP Photo Inks.

Quality and durability to impress your customers

- Create in-house posters, photos, canvases, backlit prints, indoor signs, POS posters, line drawings, and maps.

- Impress customers with top quality black-and-white images, using three shades of black HP Photo Inks.

- Achieve smooth color tones thanks to HP Multi-Dimensional Smart Drop Placement Technology.

- Expand your offerings with water-resistant prints that last up to 200 years, using HP Photo Inks[2].

Easy, efficient operation backed by HP reliability

- Simplify your operation with USB flash drive and e-mail printing[3], a color touchscreen, and print preview.

- Ensure color reliability with HP Professional PANTONE® color emulation and embedded Adobe® PostScript®/PDF.

- Automatic drop detection and intelligent masking helps ensure image quality and reduces cleaning and waste.

- Use ink more efficiently thanks to an optimized ink configuration[4].

Eco Highlights

- Breakthrough color consistency can help reduce unnecessary reprints
- Free, convenient HP ink cartridge and printhead recycling[1]
- FSC®-certified papers,[2] range of recyclable HP media with a take-back program[1]
- ENERGY STAR® qualified and EPEAT Bronze registered[3]

ENERGY STAR   epeat BRONZE

[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.

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

[1] Photo paper is required to print borderless images.
[2] With Original HP 772 or HP 70 Photo Inks. Display permanence rating for interior displays/away from direct sunlight, under glass by HP Image Permanence Lab on a range of HP media. Water resistance testing by HP Image Permanence Lab on a range of HP media and follows ISO 18935 method. For details, see hp.com/go/supplies/printpermanence.
[3] Only files in TIFF, JPEG and PDF format can be e-mailed with a size limit of 10 MB.
[4] Compared with the HP Designjet Z5200 Photo Printer.

1. With Aurasma installed, please go to the HP Designjet channel at http://auras.ma/s/ke25m
2. Without Aurasma installed, please download it:
      a. Google Play - http://auras.ma/s/android
      b. Apple Store - http://auras.ma/s/ios
   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

HP Graphics technology

Deliver the quality your customers expect and maintain the productivity you need.

HP Multi-dimensional Smart Drop Placement Technology

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

Intelligent Masking saves time, ink, and media by reducing reprints and extending printhead life beyond its warranty. 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.

Easy workflow and efficient operation

Simplify your operation with USB flash drive printing

Reduce the time spent to prepare your files and to set up your printing jobs. Use USB flash drive printing for those recurrent customers that bring very often the same type of requests.

1. Customer arrives at Copy Shop to print different files from USB device
2. Operator introduces the USB directly into the USB port of the HP Designjet Z5400 PostScript ePrinter and:
    • Accesses the content
    • Previews the content
    • Select roll and print settings
3. Operator sends to print
4. Operator saves time with multi-roll feature: Smart switching from one roll to another without operator intervention

Improved printing workflow thanks to HP Instant Printing PRO and multi roll

Easily crop, use borderless printing or use "clip content by margin" functionality with HP Instant Printing PRO. Designed to be used with those customers whose jobs require a minimum preparation (like preview, set up settings) so the operator can easily select and check the content before printing.

1. Customer arrives at Copy Shop to print different files from USB device
2. Operator introduces USB in PC to access the files
3. Operator saves time and complexity by using HP Instant Printing PRO:
    • Drag and drop the files from the USB
    • Preview the content without downloading or opening any application
    • Preview is contextualized to the printer and roll selected to print
    • Quickly modify print settings for one or multiple files
4. Send to print

A world of applications for Copy Shops

With two rolls and automatic media switching, the Z5400 keeps your operations ultra-efficient. And there's no limit to what you can create:
POS posters, photos, canvases, backlit prints, indoor signs, line drawings, maps
- all with the quality and durability to impress your customers roll-up banners and pop-up banners to backlit signs and posters with superior print quality.

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 (coated, photo, polypropylene, vinyl, etc.) can help you gain a competitive edge.

CAD & GIS

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. Communicate clearly with excellent image and line quality on all your prints from drawings to satellite and aerial photos, maps, and more.

Graphic Design

Show off your digital design with large-format proofs and presentations that mirror the image on your screen.

Exhibition and Event Graphics

Grab attention at exhibitions and events with eye-catching top quality graphics. Print on a variety of applications, from roll-up banners and pop-up banners to backlit signs and posters with superior 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.

Hear from our customers

Express Imaging increases productivity and offers higher image quality applications thanks to the HP Designjet Z5400 PostScript® ePrinter.

Find out more
hp.com/go/designjetZ5400

Technical specifications

Print	Maximum print speed[5]	53 m²/hr (570 ft²/hr)
	Print resolution	Up to 2400 x 1200 optimized dpi
	Margins	Roll: 5 x 5 x 5 x 5 mm (0.2 x 0.2 x 0.2 x 0.2 in) (borderless on photo roll media); Sheet: 5 x 17 x 5 x 5 mm (0.2 x 0.67 x 0.2 x 0.2 in)
	Ink types	Pigment-based
	Line accuracy	+/- 0.1%[6]
	Minimum line width	0.04 mm (0.0015 in) (HP-GL/2 addressable)
	Guaranteed minimum line width	0.08 mm (0.0031 in) (ISO/IEC 13660:2001(E))[7]
Image quality	Short term color stability	< 1 dE2000 in less than 5 minutes[8]
	Long term print-to-print repeatability	Average < 0.5 dE2000, 95% of colors < 1.4 dE2000[8]
	Maximum optical density	4 L* min/2.5 D[9]
Media	Handling	Two automatic roll feeds; smart roll-switching; sheet feed; media output bin; automatic cutter[10]
	Size	Rolls: 279 to 1118 mm (11 to 44 in) Sheets: 210 x 279 to 1118 x 1676 mm (8.3 x 11 to 44 x 66 in) Standard sheets: A4, A3, A2, A1, A0 (A, B, C, D, E)
	Thickness	Up to 0.8mm (31.5 mil)
Applications		Line drawings, Renderings, Maps, Orthophotos, Graphics design, Office Graphics, Posters, Photos, Digital fine art, Banners, Exhibition, event graphics, Light boxes - film, Point of sale/display
Memory		64 GB (virtual)[11], 320 GB hard disk
Connectivity	Interfaces (standard)	Gigabit Ethernet (1000Base-T), Hi-Speed USB 2.0 certified, EIO Jetdirect accessory slot
	Print languages (standard)	Adobe PostScript 3, Adobe PDF 1.7, TIFF, JPEG, CALS G4, HP PCL 3 GUI, HP-GL/22, and HP-RTL[2]
	Printing paths	Printer driver, HP Embedded Web Server, HP Instant Printing PRO, USB, email printing
	Drivers (included)	PostScript Windows and Mac drivers
Dimensions (w x d x h)	Printer	1770 x 721 x 1050 mm (69.7 x 28.4 x 41.3 in)
	Shipping	1930 x 770 x 710 mm (76 x 30.3 x 28 in)
Weight	Printer	86 kg (189 lb)
	Shipping	115 kg (253.5 lb)
What's in the box		HP Designjet Z5400 PostScript® ePrinter, printheads, introductory ink cartridges, printer stand and media bin, spindles, quick reference guide, setup poster, start-up software, power cord
Software included		Printer driver, HP Instant Printing PRO for Windows , HP Printer Utility including HP Color Center, HP Designjet Excel Accounting Tool
Environmental ranges	Operating temp.	5 to 40°C (41 to 104°F)
	Storage temp.	-25 to 55°C (-13 to 131°F)
	Operating humidity	20 to 80% RH (non-condensing)
Acoustic	Sound pressure	45 dB(A) (active); 23 dB(A) (standby)
	Sound power	6.7 B(A) (active); 4.1 B(A) (standby)
Power	Consumption	< 120 watts (printing); < 27 watts (ready); < 5 watts (< 22 watts with embedded Digital Front End) (sleep); 0.1 watts (off)
	Requirements	Input voltage (auto ranging) 100 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz), 2 A max
Certification	Safety	USA and Canada (CSA certified); EU (LVD and EN 60950-1 compliant); Russia/Kazakhstan (EAC); Singapore (PSB); China (CCC); Argentina (IRAM); Mexico (NYCE)
	Electromagnetic	Compliant with Class B requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI); Certified as Class A product: Korea (KCC)
	Environmental	ENERGY STAR, WEEE, EU RoHS, China RoHS, REACH, FEMP, EPEAT Bronze
Warranty		One-year limited hardware warranty

[5] Mechanical printing time. Printed in Fast mode with Econmode on, using HP Bright White Inkjet Paper (Bond) with HP Photo Inks.

Ordering information

Product	E1L21A	HP Designjet Z5400 44-in PostScript ePrinter
Accessories	CN538A	HP Designjet 3-in Core Adapter
	Q6709A	HP Designjet 44-inch Roll Feed Spindle
	J8025A	HP Jetdirect 640n Print Server
	G6H51A	HP Designjet HD Pro Scanner
Original HP printheads	C9404A	HP 70 Matte Black and Cyan Printhead
	C9406A	HP 70 Magenta and Yellow Printhead
	C9407A	HP 70 Photo Black and Light Gray Printhead
Original HP ink cartridges	CN629A	HP 772 300-ml Magenta Designjet Ink Cartridge
	CN630A	HP 772 300-ml Yellow Designjet Ink Cartridge
	CN633A	HP 772 300-ml Photo Black Designjet Ink Cartridge
	CN634A	HP 772 300-ml Light Gray Designjet Ink Cartridge
	CN635A	HP 772 300-ml Matte Black Designjet Ink Cartridge
	CN636A	HP 772 300-ml Cyan Designjet Ink Cartridge
	C9448A	HP 70 130-ml Matte Black Ink Cartridge
	C9449A	HP 70 130-ml Photo Black Ink Cartridge
	C9451A	HP 70 130-ml Light Gray Ink Cartridge
	C9452A	HP 70 130-ml Cyan Ink Cartridge
	C9453A	HP 70 130-ml Magenta Ink Cartridge
	C9454A	HP 70 130-ml Yellow Ink Cartridge
Original HP large format printing materials	C6810A	HP Bright White Inkjet Paper (FSC® certified)[13][14] 914 mm x 91.4 m (36 in x 300 ft)
	Q7996A	HP Premium Instant-dry Satin Photo Paper (FSC® certified)[13][14] 1067 mm x 30.5 m (42 in x 100 ft)
	C0F29A	HP Everyday Adhesive Gloss Polypropylene, 2 Pack 1067 mm x 22.9 m (42 in x 75 ft)
	C6030C	HP Heavyweight Coated Paper (PEFC™ certified)[13][14] 914 mm x 30.5 m (36 in x 100 ft)
	C2T54A	HP Premium Matte Polypropylene, 2 Pack[14] 1067 mm x 22.9 m (42 in x 75 ft)
	CH025A	HP Everyday Matte Polypropylene, 2 Pack[14] 1067 mm x 30.5 m (42 in x 100 ft)
Service and support	U0LZ3E	HP 3 year Next Business Day Onsite support[15]
	U0LZ6E	HP 3 year Next Business Day Onsite support with Defective Media Retention[16]
	U0LZ8E	HP 3 year 4-hour response, 9x5 Onsite support[15]
	U0MA2PE	HP 1 year Post Warranty Next Business Day Onsite support[15]
	U0MA3PE	HP 1 year Post Warranty Next Business Day Onsite support with Defective Media Retention[16]
	U0MA4PE	HP 1 year Post Warranty 4-hour response, 9x5 Onsite Support[15]

Use HP 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.[17]
For more information, visit hp.com/go/OriginalHPinks

For the entire HP Large Format Printing Materials portfolio, please see globalBMG.com/hp

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/designjet/support

[6] +/- 0.1% of the specified vector length or +/- 0.2 mm (whichever greater) at 23ºC (73ºF), 50-60% relative humidity, on A0/E HP Matte Film in Best or Normal mode with HP Photo Inks.
[7] Measured on HP Matte Film.
[8] With HP Premium Instant Dry Photo Satin media with HP Photo Inks, right after calibration.
[9] With HP Premium Instant Dry Photo Gloss media with HP Photo Inks.
[10] Cuts all media except canvas and banners.
[11] Based on 768 MB RAM.
[12] Only available via HP Instant Printing PRO or the HP Embedded Web Server.
[13] FSC® trademark license code FSC®-C017543, see fsc.org. PEFC™ trademark license code PEFC™/29-31-198, see pefc.org. Not all FSC®- or PEFC™-certified products are available in all regions.
[14] HP Large Format Media take-back program availability varies. Recycling programs may not exist in your area. See hp.com/recycle for details.
[15] Not available in North America and Latin America.
[16] Not available in Europe, Middle East, and Africa.
[17] With Original HP 772 or HP 70 Photo Inks. Display permanence rating for interior displays/away from direct sunlight, under glass by HP Image Permanence Lab on a range of HP media. For details, see hp.com/go/supplies/printpermanence.

For more information, please visit
hp.com/go/DesignjetZ5400