



HP PageWide XL 5100 Blueprinter

Powerful black and white and blueprint production



LEAD

Fast delivery of black and white, blueprints

- Up to 20 A1/minute for whiteprints and digital blueprints; 12 A1/minute for natural tracing paper
- Start printing in 50% of the time¹—an ultra-fast processor, native PDF management, HP SmartStream software
- Free up the operator—production stacker/online folder,² up to 4 rolls, dual ink supplies with auto-switch
- Minimize downtime with proven HP PageWide Technology for high-volume print production³

OPTIMIZE

Improve workflows and help reduce costs

- Competitive cost of operation compared to analog blueprinters and black-and-white LED printers⁴
- Reduce complexity—eliminate manual steps and prevent errors with an automated end-to-end digital workflow
- Easy integration into your workflow—print from your PC or make copies with the integrated 1200 dpi scanner
- No ammonia—place your HP blueprinter anywhere and help create a healthier work environment

IMPRESS

Set a new quality standard

- Produce crisp lines, fine detail, and smooth grayscales clearly superior to analog blueprints and LED⁵
- HP PageWide XL pigment inks—ISO certified for long-term storage, light/water resistance⁶
- Print from a single printer with black and two tones of blue for printing black and blue with adjustable hue

For more information, please visit
hp.com/go/pagewidexl5100blueprinter



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best of the best



Dynamic security enabled printer. Only intended to be used with cartridges using an HP original chip. Cartridges using a non-HP chip may not work, and those that work today may not work in the future. More at: hp.com/go/learnaboutsupplies

Note: HP PageWide XL printers are not designed to use continuous ink systems. HP PageWide XL printers are designed for ink cartridges to be used until they are empty. Refilling cartridges prior to depletion might cause the printer to fail, and voids the HP ink cartridge warranty.

¹ Using HP SmartStream software compared with using equivalent software programs. For testing criteria, see hp.com/go/pagewidexlclaims.

² The production stacker and online folder are optional accessories.

³ Proven HP PageWide Technology powers HP PageWide Web Presses—currently producing 4 billion impressions monthly—and HP PageWide Pro and HP PageWide Enterprise printers.

⁴ Cost of operation is competitive with analog blueprinters and black-and-white LED printers under \$40,000 USD in the market as of March, 2015. Source: HP research in China based on customer interviews and focus groups.

⁵ Print quality comparison with black-and-white LED printers for output produced with HP PageWide XL printers and LED printers from different manufacturers and that represent greater than 50% of the annual shipments as of 2014 of LED printers in North America according to IDC. Comparison with analog blueprinters. For testing criteria, see hp.com/go/pagewidexlclaims.

⁶ HP PageWide XL pigment inks are certified per the ISO 11798 Permanence and Durability standard, proving that prints made with HP PageWide XL printers using Original HP PageWide XL pigment inks withstand harsh exposure to light, water, abrasion, and handling, and long-term storage and heat, and remain legible in the future. For more information, see hp.com/go/printpermanence.

Technical specifications

General	Description	Large-format black-and-white blueprint MFP	
	Technology	HP PageWide Technology	
	Applications	Blueprints, Line drawings	
	Ink types	Pigment-based (black, B1, B2)	
	Ink cartridges	8 (2 x 400-ml black and B1, 4 x 400-ml B2) with auto-switch	
	Printheads	8 x HP 841 PageWide XL Printheads	
	Average printhead life	32 liters	
	Printhead warranty	10 liters or 12 months from installation	
	Print resolution	1200 x 1200 dpi	
	Minimum line width	0.02 mm (0.0008 in) (HP-GL/2 addressable)	
	Guaranteed minimum line width	0.085 mm (0.0033 in) (ISO/IEC 13660:2001(E)) ⁷	
	Line accuracy	± 0.1% ⁹	
	Maximum print speed ¹¹	15 m/min (50 ft/min)	
	A1/Arch D/ANSI D (long edge first)	20 pages/min, 1100 pages/hr	
	A0/Arch E/ANSI E (short edge first)	11 pages/min, 603 pages/hr	
A0 NTP media (short edge first)	6 pages/min		
A1 NTP media (long edge first)	12 pages/min		
Warm-up time	No warm up, except for natural tracing paper (3 min)		
First page out	28 sec (from Ready mode)		
Media	Media rolls	2 rolls default with auto-switching, expandable to 4 rolls	
	Roll width	279 to 1016 mm (11 to 40 in)	
	Roll length	Up to 200 m (650 ft)	
	Roll diameter	Up to 177 mm (7 in)	
	Roll core diameter	7.6 cm (3 in)	
	Printable width	Up to 1000 mm (39.4 in)	
	Printable length	Up to 200 m (650 ft) ¹²	
	Media weight	70 to 200 g/m ² (19 to 53 lb)	
	Media thickness	Up to 0.4 mm (15.7 mil)	
	Media types	Bond and recycled papers, coated papers, blue papers, natural tracing papers	
	Media output (standard)	Basket	
	Media output (optional)	High-capacity stacker, online folder, top stacker	
	Maximum page size	102 x 122 cm (40 x 48 in) ¹³	
	Capacity	Up to 500 pages	
	Media weight	70 to 200 g/m ² (19 to 53 lb)	
Dimensions	101 x 125 x 108 cm (55.6 x 49.1 x 42.6 in)		
Weight	140 kg (308 lb)		
Online folder²	Page width	28 to 91.4 cm (11 to 36 in)	
	Page length	Cross fold: 2.5 m (8.2 ft) Fan fold: 6 m (19.7 ft) (standard), unlimited (optional with HP PageWide XL Folder Upgrade Kit for Long Plots)	
	Media weight for folding	75 to 90 g/m ² (20 to 24 lb)	
	Media weight for stacking	75 to 200 g/m ² (20 to 53 lb)	
	Capacity	Up to 150 (A0)	
	Dimensions	2100 x 1620 x 1220 mm (82.7 x 63.8 x 48 in)	
	Weight	360 kg (794 lb)	
	Tab applicator	Available with HP PageWide XL Folder with Tab applicator only	
	Scanner	Description	36-in (91-cm) CIS scanner
		Speed	Color: up to 7.62 cm/sec (3 in/sec) at 200 dpi Grayscale: up to 25.4 cm/sec (10 in/sec) at 200 dpi
		Optical resolution	1200 dpi
		Scan width	Up to 914 mm (36 in)
		Original thickness	Up to 0.26 mm (0.01 in)
		Maximum copy length	9512 mm (374.48 in)
		Maximum scan length	18000 mm (708.66 in) (TIFF, 24-in wide original at 200 dpi), 8000 mm (314.96 in) (JPEG, 5000 mm (196.85 in) (PDF))
Scan format		Standard: JPEG, TIFF, optional: PDF 1.7, multipage PDF 1.7, PDF/A 1.4 (with PS/PDF upgrade)	
Scan features		Preview with cropping, scan quicksets, batch scanning	
Scan destination		USB, network folder (SMB), scan to email, scan to HP SmartStream software	
Embedded controller		Processor	Intel Core i5
		Memory	16 GB DDR3
		Hard drive	1 x 128 GB SSD; 1 x 500 GB HDD, self-encrypted with AES-256
		Print languages (standard)	HP-GL/2, PCL 3 Win
		Print languages (optional)	Adobe PostScript 3, Adobe PDF 1.7, TIFF, JPEG (with PS/PDF upgrade)
	Remote management	HP Partner Link, HP Embedded Web Server, HP Web Jetadmin	

⁷ The Adobe PDF Print Engine (APPE) is Adobe's high speed, high fidelity print platform. Version 4 extends APPE's leading edge for print reproduction with new performance efficiencies and breakthrough rendering features. APPE 4 enables printers to increase workflow efficiency and capitalize on the profit potential of innovations in inkjet print technology. To learn more, visit adobe.com/products/pdfprintengine.

⁸ Measured on HP Universal Bond Paper.

⁹ ±0.1% of the specified vector length or ±0.2 mm (whichever greater) at 23°C (73°F), 50–60% relative humidity, on A0/E printing material in Best or Normal mode with HP Matte Polypropylene and HP PageWide XL pigment inks.

¹⁰ Print speed while printing to the HP PageWide XL High-capacity Stacker.

¹¹ Measured using 91-cm (36-in) print width.

¹² For longer plots (up to 200 m (656 ft)), image quality might be affected.

¹³ Long plots with reduced capacity.

¹⁴ Printing to non-HP large format printers is done through specific drivers, each of them covering several printers: Océ Windows Printer Driver (WPD), KIP Windows Driver WHQL, RICOH PostScript Driver, Xerox WHQL Driver. For more information, please visit: hp.com/go/smartstream/trial.







¹⁵ 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. For information about HP large format printing materials, please visit HPLFMedia.com.

¹⁶ Can be recycled through commonly available recycling programs.

Connectivity	Interfaces	TCP/IP, BootP/DHCP, USB 2.0 host (certified)
	Printing paths	HP SmartStream software (optional) HP Universal Print Driver (HP-GL/2 and PS) HP PageWide XL print drivers (PDF, HP-GL/2, and PS)
User interface	User interface	203-mm (8-inch) capacitive touchscreen
Dimensions	MFP	1960 x 864 x 1303 mm (77.2 x 34 x 51.3 in)
	Shipping	2180 x 1068 x 1764 mm (86.8 x 42.1 x 69.5 in)
Weight	MFP	430 kg (948 lb)
	Shipping	546 kg (1204 lb)
Environmental	Operating temperature	5 to 40°C (41 to 104°F)
	Recommended temperature	15 to 35°C (59 to 95°F)
	Operating humidity	20 to 80% RH, depending on media type
Acoustic	Sound pressure	56 dB(A) (printing), 35 dB(A) (ready), < 16 dB(A) (sleep)
	Sound power	7.2 B(A) (printing), 5.2 B(A) (ready), < 3.4 B(A) (sleep)
Power	Consumption	1.2 kW (typical); 2.0 kW (max printing); 108.4 watts (ready); < 1 watts (< 4.6 watts with embedded Digital Front End) (sleep)
	Requirements	Input voltage (auto ranging) 200–240 V (± 10%), 50/60 Hz (± 3 Hz), 12 A
Certification	Safety	IEC 60950-1+A1+A2 compliant; USA and Canada (CSA listed); EU (LVD and EN 60950-1 compliant); Russia, Belarus, and Kazakhstan (EAC)
	Electromagnetic	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia and New Zealand (RCM), Japan (VCCI), Korea (KC)
	Environmental	ENERGY STAR, EPEAT Silver, CE marking (including RoHS, WEEE, REACH); in compliance with WW RoHS materials restriction requirements in China, Korea, India, Vietnam, Turkey, Serbia, and Ukraine
Warranty	90 days	

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Ordering information

Product	ZRQ20D	HP PageWide XL 5100 40-in Blueprinter
Accessories	CZ317A	HP PageWide XL PostScript/PDF Upgrade Kit
	CZ318A	HP PageWide XL Drawer
	CZ319A	HP PageWide XL High-capacity Stacker
	CZ320A	HP PageWide XL Top Stacker
	K5H75A	HP PageWide XL Folder
	L3M58A	HP PageWide XL Folder with Tab Applicator
	MOV04A	HP PageWide XL Folder Upgrade Kit for Long Plots
	L3J69A	HP SmartStream Preflight USB
	L3J69AAE	HP SmartStream Preflight Manager
	L3J74AAE	HP SmartStream Print Controller for HP PageWide XL 5000/5100 Printer series
	L3J74A	HP SmartStream Print Controller USB for HP PageWide XL 5000/5100 Printer series
	T9B46AAE	HP SmartStream Print Controller for non-HP Large Format printers ¹⁴
	2NH46AAE	HP SmartStream Document Organizer Module
	2NH47AAE	HP SmartStream Pixel Analysis Module
	Z8J16AAE	HP SmartTracker for HP PageWide XL 5000/5100 Printer series
Z8J16A	HP SmartTracker USB for HP PageWide XL 5000/5100 Printer series	
Original HP PageWide XL printheads and consumables	C1Q19A	HP 841 PageWide XL Printhead
	F9J47A	HP 841 PageWide XL Cleaning Container
	F9J48A	HP 841 PageWide XL Maintenance Cartridge
Original HP PageWide XL ink cartridges	F9J72A	HP 847B 400-ml Black PageWide XL Ink Cartridge
	F9J73A	HP 847B 400-ml B1 PageWide XL Ink Cartridge
	F9J74A	HP 847B 400-ml B2 PageWide XL Ink Cartridge
Original HP large format printing materials	L4L08A	HP Universal Bond Paper, 3-in Core (FSC® certified) ¹⁵   914 mm x 152.4 m (36 in x 500 ft)
	L4Z45A	HP Bright White Inkjet Paper, 3-in Core (FSC® certified) ¹⁵   914 mm x 152.4 m (36 in x 500 ft)
	L5C74A	HP Universal Coated Paper, 3-in Core (FSC® certified) ¹⁵   914 mm x 91.4 m (36 in x 300 ft)

Enjoy best-in-class support services, knowing HP works with HP PageWide XL Channel Partners to enable them to be properly trained, certified, and equipped to meet your needs. With efficient support and innovative support features, such as printer self-monitoring, predefined resolution paths, and intuitive maintenance wizards, you can work with confidence every day. For more information, please visit hp.com/go/pagewidexservice.

HP Financial Services can help you acquire an HP PageWide printing solution and accelerate the benefits to your business. Our solutions can help you increase your flexibility by preserving cash, freeing up budgets with a monthly payment structure, and offering an easy option to upgrade to the latest model when your business is ready. For more information, please visit hp.com/hpfinancialservices.

Find the media solution that fits your business and your HP PageWide XL printer at hp.com/go/mediasolutionslocator.

Eco Highlights

- Save paper with automatic print settings and image nesting
- ENERGY STAR® certified and EPEAT Silver registered¹
- Free, convenient HP ink cartridge recycling²
- FSC®-certified papers,³ range of recyclable HP media⁴



¹ EPEAT registered where applicable and/or supported. See epeat.net for registration status and rating by country.

² Program availability varies. Please check hp.com/recycle for details.

³ 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. For information about HP large format printing materials, please visit HPLFMedia.com.

⁴ Can be recycled through commonly available recycling programs.

Please recycle large-format printing hardware and printing supplies.

Find out how at our website hp.com/ecosolutions

