Datasheet

HP PageWide XL 5100 Printer series

Instant monochrome and colour printing – with up to 30% savings[1]
Boost production with instant printing, process efficiencies, and a new technical document standard



IMMEDIATE – Get instant monochrome and colour prints

- Up to 20 D/A1 pages/minute print speed, quick 28-second first page out.
- Deliver mixed monochrome and colour sets in 50% of the time with a consolidated workflow.[2]
- Start printing in 50% of the time[3] – an ultra-fast processor, native PDF management, HP SmartStream software.
- Print unattended – production preflight/finishing solutions, up to 4 rolls, dual 400-ml inks with auto-switch.

EXPAND – Set the accurate, durable, colour standard

- Set a new technical document standard with crisp lines, 2-point text, smooth grayscales, and vibrant colour.
- Help generate new business – reveal the value of colour; print GIS maps, point-of-sale posters, and more.
- HP PageWide XL pigment inks – ISO certified for long-term storage, light/water resistance.[4]
- Print on HP and third-party media up to 40 in (101.6 cm) – covering ISO/US technical and offset standards.[5]

SAVE – Cut total production costs up to 30%[1]

- Print monochrome and colour technical documents at the same or lower cost than comparable LED printers.[6]
- Print/scan/copy in monochrome and colour with one single device – in a fully HP branded, supported solution.
- Gain broad control over your printing costs and turn them to your advantage with HP SmartTracker software.
- Help keep data safe – self-encrypting HDD with AES-256, Secure Disk Erase, and IPSec.

For more information, please visit http://www.hp.com/go/pagewidexl5100

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: http://www.hp.com/go/learnaboutsupplies

[1] Production costs savings based on an HP PageWide XL 5100 Printer compared with a combination of a mid-volume monochrome LED printer and a mid-volume colour production printer (both under €40,000) as of April, 2017. Production costs consist of supplies and service costs, printer energy costs, and operator costs. For testing criteria, see hp.com/go/pagewidexlclaims.
[2] Based on internal HP testing on the HP PageWide XL 5100 Printer compared to preparing and printing the job on two different printers (one comparable monochrome mid-volume LED printer for the monochrome pages and one colour printer for the colour pages). For testing criteria, see http://www.hp.com/go/pagewidexlclaims.
[3] Using HP SmartStream software compared with using equivalent software programs. For testing criteria, see http://www.hp.com/go/pagewidexlclaims.
[4] 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.
[5] ISO/US technical and offset standards include American ANSI and Architectural page size standards, ISO A technical document standard, and ISO B offset page size standard.
[6] Based on supplies and service costs. Monochrome technical document printing costs for comparable mid-volume LED printers based on printers for large-format printing of technical documents at speeds between 8 and 13 D/A1 per minute as of July, 2017 which represent more than 80% of the share of mid-volume LED printers in the US and Europe in 2017 according to IDC. Colour technical document printing costs for comparable mid-volume colour printers based on printers capable of printing 4 D/A1 pages per minute or more and under €50,000 for large-format printing of technical documents as of July, 2017 and representing more than 80% of the market in the US and Europe in 2017 according to IDC. For testing criteria, see hp.com/go/pagewidexlclaims.

Technical specifications

General	
Description	Large-format colour MFP or printer
Technology	HP PageWide Technology
Applications	Line drawings; Maps; Orthophotos; Posters
Ink types	Pigment-based (cyan, magenta, yellow, black)
Ink cartridges	8 (2 x 400-ml per colour) 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
Line accuracy	±0.1%[2]
Print speed	
Maximum print speed	15 m/min (50 ft/min)[3]
A1/Arch D/ANSI D (long edge first)	20 pages/min, 1,100 pages/hr
A0/Arch E/ANSI E (short edge first)	11 pages/min, 603 pages/hr
ISO B1 (long edge first)	17 pages/min
ISO B0 (short edge first)	8 pages/min
Warm-up time	No warm up
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)
Media weight	70 to 200 g/m² (19 to 53 lb)
Media thickness	Up to 0.4 mm
Media types	Bond and recycled papers, poster papers, polypropylene, Tyvek®, matte film
Media output (standard)	Basket
Media output (optional)	High-capacity stacker, online folders, top stacker
Scanner	
Description	91 cm (36 in) CIS scanner
Speed	Colour: up to 7.62 cm/sec Greyscale: up to 25.4 cm/sec
Optical resolution	1200 dpi
Scan width	Up to 914 mm
Original thickness	Up to 0.26 mm
Maximum copy length	9.5 m
Maximum scan length	18 m (TIFF, 610-mm wide original at 200 dpi), 8 m (JPEG), 5 m (PDF)
Scan format	Standard: JPEG, TIFF; Optional: PDF 1.4, multi-page PDF 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, scan to FTP
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, TIFF, JPEG
Print languages (optional)	Adobe PostScript 3, Adobe PDF 1.7 (with PS/PDF upgrade)
Remote management	HP Partner Link, HP Embedded Web Server, HP Web Jetadmin
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 in) capacitive touchscreen
Dimensions (w x d x h)	
Printer	Printer: 1960 x 800 x 1303 mm; MFP: 1960 x 864 x 1303 mm[4]
Shipping	2180 x 1068 x 1764 mm (86.8 x 42.1 x 69.5 in)
Weight	
Printer	Printer: 415 kg; MFP: 430 kg
Shipping	Printer: 521 kg; MFP: 546 kg

Environmental	
Operating temperature	5 to 40ºC
Operating humidity	20 to 80% RH, depending on media type
Acoustics	
Sound pressure	56 dB(A) (operating), 35 dB(A) (idle), <16 dB(A) (sleep)
Sound power	7.2 B(A) (operating), 5.2 B(A) (idle), <3.4 B(A) (sleep)
Power	
Consumption	0.52 kW (typical); 0.9 kW (max printing); 108.4 watts (ready); < 1 watts (< 4.6 watts with embedded Digital Front End) (sleep)
Requirements	Input voltage (auto ranging) 100-127/200-240 V (±10%), 50/60 Hz (±3 Hz), 10/6.5 A
Certification	
Safety	IEC 60950-1+A1+A2 compliant; EU (LVD and EN 60950-1 compliant); Russia, Belarus, and Kazakhstan (EAC)
Electromagnetic	Compliant with Class A requirements, including: EU (EMC Directive)
Environmental	ENERGY STAR, EPEAT Silver, CE marking (including RoHS, WEEE, REACH). In compliance with WW RoHS materials restriction requirements in Turkey, Serbia, and Ukraine
Warranty	90 days

Ordering information

Product	
2RQ08A	HP PageWide XL 5100 40-in Multifunction Printer
2RQ09A	HP PageWide XL 5100 40-in Printer

Accessories	
5EK00A	HP HD Pro 2 42-in Scanner
CZ320B	HP PageWide XL Top Stacker
CZ317A	HP PageWide XL PostScript/PDF Upgrade Kit
CZ318A	HP PageWide XL Drawer
CZ319A	HP PageWide XL High-capacity Stacker
K5H75A	HP F70 Folder
L3M58B	HP F70 Folder with Tab Applicator
1EX00B	HP F60 Folder with Tab Applicator
M0V04A	HP PageWide XL Folder Upgrade Kit for Long Plots
3JJ54A	HP F40 Folder
L3J69AAE	HP SmartStream Preflight Manager
2NH46AAE	HP SmartStream Document Organizer Module
2NH47AAE	HP SmartStream Pixel Analysis Module
L3J74AAE	HP SmartStream Print Controller for HP PageWide XL 5x00 Printer series
L3J74A	HP SmartStream Print Controller for HP PageWide XL 5000
Z8J16AAE	HP SmartTracker for HP PageWide XL 5x00 Printer series
G6H50B	HP SD Pro 44-in Scanner

Original HP printing supplies	
C1Q19A	HP 841 PageWide XL Printhead
F9J47A	HP 841 PageWide XL Cleaning Container
F9J48A	HP 841 PageWide XL Maintenance Cartridge
C1Q65A	HP 843C 400-ml Black PageWide XL Ink Cartridge
C1Q66A	HP 843C 400-ml Cyan PageWide XL Ink Cartridge
C1Q67A	HP 843C 400-ml Magenta PageWide XL Ink Cartridge
C1Q68A	HP 843C 400-ml Yellow PageWide XL Ink Cartridge

Original HP large format printing materials

L4L08A HP Universal Bond Paper, 3-in Core (FSC® certified)[5] (recyclable)[6] 36 in x 500 ft (914 mm x 152.4 m)
L5P98A HP Production Matte Poster Paper, 3-in Core (FSC® certified)[5] (recyclable)[6] 40 in x 300 ft (1016 mm x 91.4 m)
L5Q03A HP Production Satin Poster Paper, 3-in Core (FSC® certified)[5] (recyclable)[6] 40 in x 300 ft (1016 mm x 91.4 m)
L5C80A HP Universal Heavyweight Coated Paper, 3-in Core (FSC® certified)[5] (recyclable)[6] 36 in x 300 ft (914 mm x 91.4 m)
L6B19A HP Matte Polypropylene, 3-in Core 40 in x 150 ft (1016 mm x 45.7 m)

For the entire HP Large Format Printing Materials portfolio, please see HPLFMedia.com.

ECO highlights

- Save paper with automatic print settings and image nesting
- ENERGY STAR® certified[1] and EPEAT® Silver registered[2]
- Free, convenient HP ink cartridge recycling[3]
- FSC®-certified papers[4], range of recyclable HP media[5]

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

[1] ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.
[2] EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status and rating by country.
[3] Program availability varies. Please check http://www.hp.com/recycle for details.
[4] BMG trademark license code FSC®-C115319, see http://www.fsc.org. HP trademark license code FSC®-C017543, see http://www.fsc.org. Not all FSC®-certified products are available in all regions. For information about HP large format printing materials, please visit http://www.HPLFMedia.com.
[5] Can be recycled through commonly available recycling programs.

[1] Measured on HP Universal Bond paper.
[2] ±0.1% of the specified vector length or ±0.2 mm (whichever greater) at 23ºC (73ºF), 50-60% relative humidity, on A0/E printing material in Best or Normal mode with HP Matte Polypropylene and HP PageWide XL pigment ink.
[3] For longer plots (up to 200 m/656 ft), image quality might be affected.
[4] Depth: 800 + 64-mm (31.5 + 2.5-in) removable scanner input tray to pass through doorways.
[5] BMG trademark license code FSC®-C115319, see http://www.fsc.org. HP trademark license code FSC®-C017543, see http://www.fsc.org. Not all FSC®-certified products are available in all regions. For information about HP large format printing materials, please visit http://www.HPLFMedia.com.
[6] Can be recycled through commonly available recycling programs.

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4AA7-1170 eu-en January 2020