Datasheet

HP DesignJet XL 3800 36-in Multifunction Printer with 3-year Warranty

U.S. Federal Government

Drive efficient workflows with the fastest color printer in its class[1]



PRODUCTIVE—Speed and color in one device

- Keep projects moving productively with the fastest color printer at 6 D color pages/min in its class.[1]
- Produce excellent CAD lines and graphics applications in monochrome and color with one large-format device with HP Flex Tech Inks.
- No time is lost waiting for printouts—this printer delivers the first page out in 20 seconds.[2]

EFFICIENT—Simple and optimized

- Give users an easy one-click copy and scan experience via the intuitive 15-inch front panel.
- Optimize space with a large-format printer that is 20% more compact.[3]
- Take sustainability further with cardboard-based cartridges[4] and printer made with 33% recycled plastic.[5]

SECURE—Protect your printer, data, and network

- Defend your network and data with the world's most secure large-format printer.[6]
- Protect your printer from cyberthreats with HP Wolf Enterprise.
- Monitor the status of your printer with Command Center's centralized dashboard.

For more information, please visit https://www.hp.com/go/designjet-xl-3800

This printer is intended to work only with cartridges that have a new or reused HP chip, and it uses dynamic security measures to block cartridges using a non-HP chip. Periodic firmware updates will maintain the effectiveness of these measures and block cartridges that previously worked. A reused HP chip enables the use of reused, remanufactured, and refilled cartridges. More at: http://www.hp.com/learn/ds

[1]Based on comparison of published speed specifications, commissioned by HP and performed by Sogeti in February 2023. HP DesignJet XL 3800 top speed of 6 D color pages per minute compared to top speed specifications of mono and color printers from different manufacturers comparable in terms of price range, speed, and market relevance, based on their worldwide market share as of February 2023 according to IDC. Further details available upon request.

[2]When the printer is idle and ready, performing a reprint in Fast print mode on plain paper from history in job queue after 35 seconds from the last plot and less than 3 hours.

[3]Based on comparison of operational footprint, commissioned by HP and performed by Sogeti in February 2023. HP DesignJet XL 3800 operational footprint compared to operational footprint of reference competitor in TDP low volume market segment. Further details available upon request.

[4]The ink cartridge 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. For take-back of ink bag/printhead/prints, visit https://www.hp.com/recycle to see how to participate and for HP Planet Partners program availability; program may not be available in your jurisdiction.

[5]Percentage of recycled plastic is calculated by plastic total weight.

[6]Based on comparison of published security specifications, commissioned by HP and performed by Sogeti in February 2023. Comparison of HP DesignJet XL 3800 security features and competitors from different manufacturers that represent the majority of TDP low volume market share worldwide as of February 2023. Further details available upon request.

Technical specifications

Print	
First page out	20 sec[1]
Print speed	360 D/hr 10 sec/D 6 D/min[2]
Print resolution	Up to 2400 x 1200 optimized dpi
Technology	HP Thermal Inkjet
Ink types	Pigment-based (C, M, Y, K)
Ink drop	6.5 pl (C, M, Y); 13.5 (K)
Printheads	6 (2x KM, 2x CY, 2x MK)
Line accuracy	±0.1%[3]
Minimum line width	0.0008 in (PDF addressable)
Multifunction capabilities	
Scan speed	Scan: Up to 3 in/sec (color, 200 dpi), up to 10 in/sec (grayscale, 200 dpi) Copy: Up to 6 in/sec (color, 200 dpi), up to 10 in/sec (grayscale, 200 dpi)
Scan resolution	Up to 600 dpi
Technology	Sheetfed, CIS (Contact Image Sensor)
Scan format	JPEG, TIFF, multipage PDF
Scan destinations	USB, shared network folder
Maximum scan length	16 ft (PDF), 52 ft (TIFF), 26 ft (JPEG)[4]
Thickness	Up to 0.03 in
Media	
Handling	Spindle-less drawers, automatic front-loading roll feed, integrated output stacker[5], automatic horizontal cutter Scanner: straight-through scan paper path for sheet and cardboard originals
Roll size	11 to 36-in width, up to 656-ft length, 3-in core
Maximum roll diameter	7 in
Grammage	60 to 328 g/m²
Thickness	Up to 19.7 mil
Applications	Line drawings; Maps; Orthophotos; Presentations; Renderings
Memory	128 GB (file processing)[6]
Hard disk	256 GB SSD (AES-256 encrypted)
Connectivity	
Interfaces	Gigabit Ethernet (1000Base-T), supporting the following standards: TCP/IP, DHCP/AutoIP (IPv4, IPv6), DHCPv6, SNMP (v1, v2c, v3), Apple Bonjour Compatible, WS Discovery, Embedded Web Server (HTTPS), IPsec, Raw IP printing (9100), LPD, IPP, WS print, NTLM, SMB (v1/CIFS, v2, v3), SSL/TLS, 802.1X authentication (LEAP, PEAP, EAP-TLS), DFS. No Wi-Fi module or capability.
Native print languages	Adobe PDF 1.7, HP-GL/2, HP-RTL, TIFF, JPEG, CALS G4
Printing paths	Direct printing from USB flash drive, print from network shared folder, FTP printing, HP driver for Windows, HP Print Service for Android, Apple AirPrint driver for macOS and iOS, HP Print for Chrome OS, HP Click, HP app for iOS and Android
Drivers	PDF, raster, and HP-GL/2 drivers for Windows, AirPrint for macOS
Security features	HP SureStart, Secure Boot, Whitelisting, HP Runtime Intrusion Detection, HP Connection Inspector, TPM, Role Based Access Control, LDAP and Kerberos authentication, SNMPv3, HTTPS, Secure-IPP, IPsec/Firewall, Certificates management, 802.1X, TLS 1.0/1.1/1.2, HP Web Jetadmin compatible, HP Security Manager compatible, Secure Disk erase (DoD 5220.22-M), Secure File erase, self-encrypting HDD, encrypted PIN printing, Syslog security logging
Dimensions (W x D x H)	
Printer	63 x 24 x 48 in
Shipping	67 x 30 x 50 in
Weight	
Printer	401 lb
Shipping	507 lb
What's in the box	HP DesignJet XL 3800 Multifunction Printer, printhead (x6), introductory ink cartridges (x4), scanner calibration sheet, documentation, power cords, maintenance cartridge, stacker, basket (at rear), control panel, monitor arm
HP Software and solutions	HP Click for Windows and macOS, HP app for Windows, macOS, and mobile, HP Web Jetadmin, HP Security Manager, HP Easy Start, HP Print Scan Doctor, Mobile inOS printing, MPS, HP Command Center
Environmental ranges	
Recycled plastic in printer	33%
Operating temperature	41 to 95°F
Operating humidity	20 to 80% RH
Storage temperature	-13 to 131°F
Acoustics	
Sound pressure	50 dB(A) (normal print), <30 dB(A) (idle), <20 dB(A) (sleep)
Sound power	6.8 B(A) (normal print), <4.8 B(A) (idle), <3.8 B(A) (sleep)
Power	
Consumption	<220 W (printing + scanning), 50 W (ready), <2.2 W[7] (sleep) (<14 W[8] with DFE), 0.2 W (off)
Requirements	Input voltage (auto ranging) 100-240 V (±10%), 50/60 Hz (±3 Hz), 3 A

Certification	
Safety	USA and Canada (CSA certified); EU (LVD and EN 62368-1 compliant); Russia, Belarus, Khazakstan (EAC); Ukraine (UA); Singapore (PSB); China (CCC); Argentina (IRAM); Mexico (NYCE); India (BIS)
Electromagnetic	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI), Korea (KCC)
Environmental	ENERGY STAR, EPEAT, UL ECOLOGO® certified inks, CE marking (including WEEE, RoHS, REACH, ErP). In compliance with applicable WW RoHS materials restriction requirements.
Warranty	Three-year limited hardware warranty. Warranty and support options vary by product, country and local legal requirements.

Ordering information

Product	
7QR88G	HP DesignJet XL 3800 36-in Multifunction Printer
TAA Compliance	Made in Singapore

Accessories	
2NH46AAE	HP SmartStream Document Organizer Module
2NH47AAE	HP SmartStream Pixel Analysis Module
8SW00A	HP SmartStream USB Preflight Manager
8SW00AAE	HP SmartStream Preflight Manager
8SW02A	HP SmartStream Print Controller USB for HP XL 3000 Printer series
8SW02AAE	HP SmartStream Print Controller for HP XL 3000 Printer series

Original HP printing supplies	
3EE18A	HP 768 DesignJet Maintenance Cartridge
4S5B3A	HP 768 500-ml Magenta DesignJet Ink Cartridge
4S5B4A	HP 768 500-ml Yellow DesignJet Ink Cartridge
4S5B5A	HP 768 500-ml Cyan DesignJet Ink Cartridge
4S5B6A	HP 768 500-ml Black DesignJet Ink Cartridge
7K5U5A	HP 769 Black/Magenta 1-2 DesignJet Printhead
7K5U6A	HP 769 Cyan/Yellow 3-4 DesignJet Printhead
7K5U7A	HP 769 Magenta/Black 5-6 DesignJet Printhead

Use Original HP inks and printheads, and HP large format printing materials, to experience consistent high quality and reliable performance that enable less downtime. These critical components are designed and engineered together as an optimized printing system, and Original HP inks are designed to maximize the life of HP printheads. Protect your HP printer investment by using Original HP inks for full HP warranty protection. For more information, visit https://hp.com/go/OriginalHPinks

Original HP large format printing materials

HP 20-lb Bond with ColorPRO Technology, 3-in Core (recyclable)[9]
HP Universal Bond Paper, 3-in Core (ColorPRO Technology) (FSC® certified)[10] (recyclable)[9]
HP Bright White Inkjet Paper, 3-in Core (ColorPRO technology) (FSC® certified)[10] (recyclable)[9]
HP Universal Coated Paper, 3-in Core(FSC® certified)[10] (recyclable)[9]
HP Everyday Matte Polypropylene, 3-in Core (recyclable)[9]

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

[1] Printer in Ready state, printing from driver and Adobe Reader on a PC with 2.6 GHz Core i7, 16 GB RAM.
[2] Mechanical printing time. Reprint from the printer queue. Printed in Fast mode, using HP Bright White Inkjet Paper (bond) and Original HP inks.
[3] ±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 HP Matte Film in Best or Normal mode with Original HP inks.
[4] Scanned at 200 dpi.
[5] From A4/A to A0/E, with up to 100 A1/D-size capacity.
[6] Based on 8 GB RAM.
[7] Excluding Type 2 DFE (Digital Front End) as defined in Energy Star® Product Specification for Imaging Equipment version 3.1.
[8] Total power measured in sleep mode including the Digital Front End contained on the product.
[9] Can be recycled through commonly available recycling programs.
[10] BMG trademark license code FSC®-C115319, see http://www.fsc.org . HP trademark license code FSC®-C017543, see http://www.fsc.org . BMG trademark license code PEFC™/29-31-261, see http://www.pefc.org . HP trademark license code PEFC™/29-31-198, see http://www.pefc.org . Not all FSC®- or PEFC™-certified products are available in all regions.

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