Datasheet

HP DesignJet Studio 24-in Printer

Design meets performance in the world's easiest large-format plotters[1]

Fits the way you live

- Design that performs, technology that stands out.
- Easily set up your plotter using your smartphone.
- First net carbon neutral HP DesignJet plotter.[2]

Extreme simplicity

- Print multi-size A3/B and A1/D projects automatically, without manually switching the media source.
- Save time with the world's easiest job submission[3] —send multiple files in one click with HP Click.[4]
- Print with confidence you'll get the results you expect with an intuitive driver and true print preview.

Fits the way you work

- Avoid waiting by the printer with high-speed printing as fast as 26 seconds per A1/D plot.
- Be more productive—save time from job prep to final print by printing your projects up to 2X faster.[3]
- Print your jobs and manage your plotter from virtually anywhere, anytime with the HP Smart app.
- Get high-quality results—HP Bright Office Inks plot up to 31% more line accuracy and up to 65% more gamut.[5]

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

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] The HP DesignJet Studio Printer series and the HP DesignJet T600 Printer series are the only solutions providing seamless printing of both large- and small-format sheets automatically in a multi-size print basket compared to competitive alternatives with comparable size and features as of January, 2020.

[2] HP is reducing the carbon footprint of printing through carbon reduction initiatives such as energy efficiency, reduced packaging, and use of recycled plastics. The HP DesignJet Studio Printer is the first HP DesignJet where HP has offset the remaining carbon impact due to raw material extraction and processing, printer manufacturing and transportation, as well as electricity, paper, and cartridge use in accordance with The CarbonNeutral Protocol https://www.carbonneutral.com/how/carbonneutral-protocol.

[3] Three-click printing with HP Click software compared to up to 11 clicks with competitive alternatives when printing 5 files of different sizes. Applicable to PDF, JPEG, TIFF, DWF, and HP-GL/2 files. Based on testing the HP DesignJet Studio 36-in Printer, from job prep to print is up to 2x faster than competitive alternatives with comparable size and features as of January, 2020.

[4] One-click printing with HP Click software. Applicable to PDF, JPEG, TIFF, DWF, and HP-GL/2 files.

[5] Up to 31% more line accuracy based on HP internal testing, September 2019 of 1 pixel vertical line straightness comparing prints from the HP DesignJet Studio Printer series and Canon TM-305 Printer on plain paper using equivalent fast/draft print modes. Up to 65% more color gamut based on HP internal testing, September 2019, of gamut volume comparing prints from the HP DesignJet Studio Printer series and Canon TM-305 Printer on Oce 75gsm plain paper using equivalent fast/draft print modes.

Technical specifications

Print	
Print speed	26 sec/page on D, 81 D prints per hour[1]
Print resolution	Up to 2400 x 1200 optimized dpi
Technology	HP Thermal Inkjet
Margins	Roll: 0.2 x 0.2 x 0.2 x 0.2 in Sheet: 0.2 x 0.2 x 0.2 x 0.7 in (manual feed); 0.2 x 0.2 x 0.2 x 0.2 in (input tray)
Ink types	Dye-based (C, M, Y); pigment-based (K)
Page Yield	20 ml of ink yields 101 A1/D pages, taking into account maintenance routines[2]
Ink drop	5.5 pl (C, M, Y); 12 pl (K)
Printheads	1 (cyan, magenta, yellow, black)
Printhead nozzles	1376
Line accuracy	±0.1%[3]
Minimum line width	0.0008 in
Max optical density	8 L* min/2.10 D[4]
Media	
Handling	Sheet feed, roll feed, automatic sheet feeder, media bin, automatic horizontal cutter
Roll size	11 to 24 in
Sheet size	Auto sheet feeder: 8.3 x 11 to 13 x 19 in manual feed: 8.3 x 11 to 24 x 74.7 in
Standard sheets	Auto sheet feeder: A, B manual feed: A, B, C, D
Grammage	60 to 280 g/m² (roll/manual feed); 60 to 220 g/m² (auto sheet feeder)
Thickness	Up to 11.8 mil
Applications	Line drawings; Presentations; Renderings
Memory	1 GB
Hard disk	None
Connectivity	
Interfaces	Gigabit Ethernet (1000Base-T), Hi-Speed USB 2.0, Wi-Fi 802.11a/b/g/n, Wi-Fi Direct
Native print languages	HP-GL/2, HP-RTL, CALS G4, JPEG, URF
Printing paths	Print Anywhere with HP Smart app, HP Click, HP driver for macOS, HP driver for Windows, printing support for Chrome OS, email printing, HP Print Service Plugin for Android, Apple AirPrint
Drivers	Raster driver for Windows and macOS
Dimensions (W x D x H)	
Printer	39.9 x 21.9 x 36.7 in
Shipping	47.2 x 23.2 x 20.6 in
Weight	
Printer	74.1 lb
Shipping	94.8 lb
What's in the box	HP DesignJet Studio 24-in Printer, printer stand, automatic sheet feeder, roll cover, printhead, introductory ink cartridges, spindle, quick reference guide, setup poster, power cord
HP Software and solutions	HP Click, HP Smart app, HP Print Preview for Windows, HP Easy Start, HP DesignJet Utility for Windows, HP Support Assistant
Remote print enabled	Yes
One-click multi-size printing	Yes
Environmental ranges	
Recycled plastic in printer	10%
Operating temperature	41 to 104ºF
Operating humidity	20 to 80% RH
Operating altitude	Up to 9843 ft
Storage temperature	-13 to 131ºF
Acoustics	
Sound pressure	42 dB(A) (operating), <16 dB(A) (idle)
Sound power	5.8 B(A) (operating), <3.4 B(A) (idle)
Power	
Consumption	<35 W (printing), <5.6 W (ready), <2.1 W (sleep), <0.2 W (standby)
Requirements	Input voltage (auto ranging): 100-240 V (±10%), 50/60 Hz (±3 Hz), 1200 mA max

Certification	
Safety	USA and Canada (CSA certified); EU (LVD, EN 60950-1 and EN 62368-1 compliant); Russia, Belarus, Khazakstan (EAC); Ukraine (UA); Singapore (PSB); China (CCC); Argentina (IRAM); India (BIS); Mexico (NYCE)
Electromagnetic	Compliant with Class B requirements, including: USA (FCC rules), Canada (ICES), EU (EMC/RED Directives), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI); Certified as Class B product: Korea (KCC)
Environmental	ENERGY STAR; WEEE; EU RoHS; EAEU RoHS; REACH; ErP
Warranty	Three-year limited hardware warranty

Ordering information

Product	
5HB12H	HP DesignJet Studio 24-in Printer with 3-year Warranty
Accessories	
B3Q36A	HP DesignJet 24-in Spindle

Original HP large format printing materials

HP Universal Bond Paper (FSC® certified)[5] (recyclable)[6]
HP Coated Paper (FSC® certified)[5] (recyclable)[6]
HP Heavyweight Coated Paper (FSC® certified)[5] (recyclable)[6]

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

Service and Support

UD5L4PE HP 1 year Post Warranty NBD Onsite Support
UD5L5PE HP 2 year Post Warranty NBD Onsite Support

HP Support Services offer installation and extended support services (e.g. 2, 3, 4, and 5 years). For more information, please visit http://www.hp.com/go/cpc

ECO highlights

- ENERGY STAR® certified[1]
- Free, convenient HP ink cartridge recycling[2]
- FSC®-certified papers[3] and a range of recyclable HP media with a take-back program[4]

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] Visit http://www.hp.com/recycle to see how to participate and for HP Planet Partners program features and availability; program may not be available in your area.
[3] 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.
[4] Many HP printing materials are recyclable through commonly available recycling programs. For information about HP large format printing materials, please visit http://www.HPLFMedia.com.

[1] Mechanical printing time. Printed in Fast mode with Economode on, using HP Bright White Inkjet Paper (bond) and Original HP inks. Actual performance may vary based on a variety of conditions, including but not limited to network configuration.
[2] Calculation done taking into account two normal printhead cleanings and ink on an A1/D CAD drawing with black and color lines and a pixel coverage of 5.2%.
[3] ±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 Heavyweight Coated roll feed and Original HP inks.
[4] With HP Premium Instant Dry Photo Gloss media with Original HP inks.
[5] BMG trademark license code FSC®-C115319, see http://www.fsc.org. HP trademark license code FSC®-C017543, see http://www.fsc.org.
[6] Can be recycled through commonly available recycling programs.

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