HP DesignJet T650 24-in Printer (5HB08A)



Overview

Simply the world's easiest large-format plotters[1]—affordability without tradeoffs

The world's smallest wide-format printer[4] with a built-in stand, is designed to fit your office, budget, and the way you work. Print multi-size projects with ease. Print your A1/D plot as fast as 26 seconds. 1 GB memory.

Extreme simplicity

Print multi-size A3/B and A1/D projects automatically, without manually switching the media source.

Fits the way you work

Avoid waiting by the printer with high-speed printing as fast as 26 seconds per A1/D plot.

Fits your office and budget

Save space with the world's smallest plotters[4] designed to fit your office, including a built-in stand.

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[1] The HP DesignJet T600 Printer series and the HP DesignJet Studio 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.

[4] HP DesignJet T650 36-in series printers are up to 17% smaller compared to competitive alternatives with comparable size and features as of January, 2020. The world's smallest large-format plotters based on most compact footprint.

Specifications

Print Resolution Color (best)	Up to 2400 x 1200 optimized dpi
AIO Functions	Print
Connectivity, Std	Gigabit Ethernet (1000Base-T), Hi-Speed USB 2.0, Wi-Fi 802.11a/b/g/n, Wi-Fi Direct
Software Included	HP Click App, HP Click Driver for Windows 11, HP Smart app, HP Print Preview for Windows, HP Easy Start, HP DesignJet Utility for Windows, HP Support Assistant
Sustainability Specifications	More sustainable design reduces CO2e up to 7.3 tons/year by units sold by using up to 30% UL Validated recycled plastic.; Free, convenient HP ink cartridge and printhead recycling with HP Planet Partners; FSC®-certified papers and a range of recyclable HP media with a take-back program; ENERGY STAR® certified; EPEAT® registered
Energy Star Certified	Yes
Product Dimensions W x D x H (metric)	1013 x 605 x 932 mm
Product Dimensions W x D x H (imperial)	39.9 x 23.8 x 36.7 in
Weight (metric)	29.5 kg
Weight (imperial)	65 lb
Power Consumption Description	<35 W (printing), <5.6 W (ready), <2.1 W (sleep), <0.2 W (off)
Environmental Certifications	ENERGY STAR; WEEE; EU RoHS; EAEU RoHS; REACH; ErP; EPEAT Gold
What Is In The Box	HP DesignJet T650 24-in Printer, printer stand, automatic sheet feeder, roll cover, printhead, introductory ink cartridges, spindle, quick reference guide, setup poster, power cord
Manufacturer Warranty	One-year limited hardware warranty

Additional specifications

AIO Functions (filter)	Print
Accessories	B3Q36A HP DesignJet 24-in Spindle
Acoustic Power Emissions (active, printing)	5.8 B(A) (operating), <3.4 B(A) (idle)
Acoustic Pressure Emissions	42 dB(A) (operating), <16 dB(A) (idle)
Cartridge Size (filter)	Less than 130 ml
Color Ink Technology (filter)	Pigment; Dye
Dynamic security	Dynamic security enabled printer
Electromagnetic Emission Standard	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)
Hard Disk	None
Ink Drop	5.5 pl (C, M, Y); 12 pl (K)
Ink Types	Dye-based (C, M, Y); pigment-based (K)
Line Accuracy	±0.1%[3]
Maximum Optical Density (black)	8 L* min/2.10 D[4]
Maximum roll diameter (imperial) (filter)	3.9 in
Media Handling, Document Finishing	Sheet feed, roll feed, automatic sheet feeder, media bin, automatic horizontal cutter
Media Sizes Custom (imperial)	Auto sheet feeder: 8.3 x 11 to 13 x 19 in; manual feed: 8.3 x 11 to 24 x 74.7 in
Media Sizes Custom (metric)	Auto sheet feeder: 210 x 279 to 330 x 482 mm; manual feed: 210 x 279 to 610 x 1897 mm
Media Sizes Standard (imperial Rolls)	11 to 24 in
Media Thickness (by paper path)	Up to 11.8 mil
Media Thickness Maximum (metric)	Up to 0.3 mm
Media Types	Bond and coated paper (bond, coated, heavyweight coated, plain, bright white, blueprint), technical paper (natural tracing), film (clear, matte), photographic paper (satin, gloss, semigloss, polypropylene), self-adhesive (adhesive, polypropylene)
Media Weight Recommended (metric)	60 to 280 g/m² (roll/manual feed); 60 to 220 g/m² (auto sheet feeder)
Media Width Maximum (imperial)	24 in
Media Width Maximum (metric)	610 mm
Media sizes standard (metric rolls)	279 to 610 mm

Model Size (imperial)	24 in
Model Size (metric)	610 mm
Non-Printable Area (imperial cut-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)
Non-Printable Area (metric cut-sheet)	5 x 5 x 5 x 17 mm (manual feed); 5 x 5 x 5 x 5 mm (input tray)
Non-operating Humidity Range	0 to 95% RH
Non-printable Area Roll Media (imperial)	0.2 x 0.2 x 0.2 x 0.2 in
Non-printable Area Roll Media (metric)	5 x 5 x 5 x 5 mm
Number of Cartridges (filter)	4
Operating Altitude (imperial)	Up to 9843 ft
Operating Altitude (metric)	Up to 3000 m
Operating Humidity Range	20 to 80% RH
Operating Temperature Range (celsius)	5 to 40ºC
Operating Temperature Range (fahrenheit)	41 to 104ºF
Package Dimensions W x D x H (imperial)	45.5 x 22.6 x 18.1 in
Package Dimensions W x D x H (metric)	1155 x 575 x 475 mm
Package Weight (imperial)	83.8 lb
Package Weight (metric)	38 kg
Page Yield, Color, High Capacity	20 ml of ink yields 101 A1/D pages, taking into account maintenance routines[2]
Playbook TS Icon Connectivity	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png
Playbook TS Icon Dimensions AiO	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192862.png
Playbook TS Icon Display AiO	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169148.png
Post Consumer Recycled Plastic In Hardware by weight of plastic	30%
Power Supply Required	Input voltage (auto ranging): 100-240 V (±10%), 50/60 Hz (±3 Hz), 1200 mA max
Print Cartridge/Bottle Volume (metric)	80 ml (K); 38 ml (K); 29 ml (C, M, Y)
Print Cartridge/Bottle, Color(s)	Cyan, magenta, yellow, black
Print Cartridges/Bottle, Number	4 (C, M, Y, K)
Print Head Nozzles	1376
Print Heads	1 (cyan, magenta, yellow, black)

Print Languages, Standard	HP-GL/2, HP-RTL, CALS G4, JPEG, URF
Print Multi-size Files In One Click	Yes
Print Speed (filter)	20 to 30 sec/page on D size
Print Speed (imperial)	26 sec/page on D, 81 D prints per hour[1]
Print Speed (metric)	26 sec/page on A1, 81 A1 prints per hour[1]
Print Technology	HP Thermal Inkjet
Printer Applications (filter)	Architecture; Engineering; Construction; Technical documents; Presentation graphics
Printer Drivers Included	Raster driver for Windows and macOS, HP Click Driver for Windows 11
Printer Features (filter)	Automatic horizontal cutter; Stand
Printing Path	Print Anywhere with HP Smart app, HP Click App, HP Click Driver for Windows 11, HP driver for macOS, HP driver for Windows, printing support for Chrome OS, email printing, HP Print Service Plugin for Android, Apple AirPrint
Product Logos	AirPrint; ENERGY STAR; EPEAT Gold; Gold IPv6 Ready; Hi-Speed USB; UL Validated; Wi-Fi CERTIFIED; Windows 10 Compatible
Product-specific Additional Information Pointer	http://www.hp.com/go/designjett650
Recommended Media	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]
Remote Print Enabled	Yes
Roll External Diameter	100 mm
Roll External Diameter (imperial)	3.9 in
Roll Maximum Input	1
Roll Maximum Weight (imperial)	9 lb
Roll Maximum Weight (metric)	4.1 kg
Roll Size (filter)	Up to 24 in
Safety Approvals and Requirements	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)
Standard Media Sizes Supported (imperial)	Auto sheet feeder: A, B; manual feed: A, B, C, D
Standard Media Sizes Supported (metric)	Auto sheet feeder: A4, A3; manual feed: A4, A3, A2, A1
Standard Memory	1 GB
Storage Temperature Range (celsius)	-25 to 55ºC
Storage Temperature Range (fahrenheit)	-13 to 131ºF
Supported Applications, Primary	Line drawings; Presentations; Renderings

Sustainability Impact (filter)	ENERGY STAR®; EPEAT®
Technology	Ink
Theoretical Minimum Line Width (imperial)	0.0008 in
Theoretical Minimum Line Width (metric)	0.02 mm
UNSPSC Code	43212104
UPC Number	(ABG) 194850020025; (ACJ) 194850020032; (B19) 194850019999; (B1K) 194850020001; (BCD) 194850020018; (EMU) 194850020049

Ink/Toner/Paper/Printer Supplies

Ink Supplies

★ : Recommended

HP Graphic Arts Inks/Printheads

HP 712 2-pack 80-ml Black DesignJet Ink Cartridges	3WW89A
HP 712 29-ml Cyan DesignJet Ink Cartridge	3ED67A
HP 712 29-ml Magenta DesignJet Ink Cartridge	3ED68A
HP 712 29-ml Yellow DesignJet Ink Cartridge	3ED69A
HP 712 3-pack 29-ml Cyan DesignJet Ink Cartridge	3ED77A
HP 712 3-pack 29-ml Magenta DesignJet Ink Cartridge	3ED78A
HP 712 3-pack 29-ml Yellow DesignJet Ink Cartridge	3ED79A
HP 712 38-ml Black DesignJet Ink Cartridge	3ED70A
HP 712 80-ml Black DesignJet Ink Cartridge	3ED71A
HP 712B 38-ml Black DesignJet Ink Cartridge	3ED28A
HP 712B 80-ml Black DesignJet Ink Cartridge	3ED29A
HP 713 DesignJet Printhead Replacement Kit	3ED58A

Accessories

Paper Handling

★ : Recommended

Spindles

HP DesignJet 24-in Spindle	B3Q36A
HP DesignJet 36-in Spindle	B3Q37A

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