



HP DesignJet T650 24-in Printer (5HB08W)



Overview

The world's smallest plotters[1]—intuitive and responsibly designed.

Focus on the project, not your plotter. This printer delivers incredible ease of use with HP Click Print solutions.[2] It's responsibly designed to help you save energy[4] and reduce plastics use[7]. Plus, it's compact and adaptable—to fit the way you work.

INTUITIVE—Easy, effortless printing

Simplify printing with the new HP Click Print solutions—save time with real-print preview.[2]

OPTIMIZED—Fits the way you work

Save space with the world's smallest plotters[1] designed to fit your office, including a built-in stand.

RESPONSIBLY DESIGNED—Reduce energy and plastic use

Save 65% energy[4] with the printer on/off auto scheduler and enjoy efficient ink maintenance routines[5].

[1]Based on competitive comparison of operational footprint. Test performed by Sogeti and commissioned by HP in May 2024.

[2]HP One-click printing with HP Click software. HP Click software is only compatible with Original HP ink supplies. Applicable to PDF, JPEG, TIFF, DWF, and HP-GL/2 files.

[4]The percentage reductions in energy consumption are based on tests conducted by HP, 2024. Data based on the implementation of auto-scheduled on/off usage in various printer models, measured on a monthly basis. Actual savings may vary depending on the specific usage patterns, printer models, and environmental conditions.

[5]Use up to 96% less ink for routine maintenance vs. competitor. Based on HP internal testing, June 2024, comparing the HP DesignJet T200 Printer series and Canon iPF TM printer series in terms of ink used during routine printhead cleanings.

[7]Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled content is based on the definition set in the EPEAT standard for imaging equipment, IEEE 1680.2.

Specifications

Print quality color (best)	Up to 2400 x 1200 optimized dpi
Functions	Print
Connectivity, standard	Gigabit Ethernet (1000Base-T), Hi-Speed USB 2.0, Wi-Fi 802.11a/b/g/n, Wi-Fi Direct
Software included	HP Click App for Windows and macOS, HP Click Driver for Windows 11, HP app for Windows, macOS, Android and iOS
Energy star certified	Yes
Minimum dimensions (W x D x H)	1013 x 605 x 932 mm
Minimum dimensions (W x D x H)	39.9 x 23.8 x 36.7 in
Weight	29.5 kg
Weight	65 lb
Power consumption	<35 W (printing), <5.6 W (ready), <2.1 W (sleep), <0.2 W (standby)
Environmental certification	ENERGY STAR; WEEE; EU RoHS; EAEU RoHS; REACH; ErP; EPEAT Climate+ Gold; UL Ecologo
What's 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

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)
Dynamic security	Dynamic security enabled printer
Electromagnetic compatibility	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)
Finished output handling	Sheet feed, roll feed, automatic sheet feeder, media bin, automatic horizontal cutter
High capacity of page yield (colour)	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)
Ink types	Dye-based (C, M, Y); pigment-based (K)
Internal Storage	None
Line accuracy	±0.1%[3]
Maximum optical density (black)	8 L* min/2.10 D[4]
Media sizes standard (metric rolls)	279 to 610 mm
Media sizes standard (sheets, rolls)	11 to 24 in
Media sizes supported	Auto sheet feeder: A4, A3; manual feed: A4, A3, A2, A1
Media sizes supported	Auto sheet feeder: A, B; manual feed: A, B, C, D
Media sizes, custom	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	Auto sheet feeder: 210 x 279 to 330 x 482 mm; manual feed: 210 x 279 to 610 x 1897 mm
Media thickness	Up to 11.8 mil
Media thickness (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	60 to 280 g/m ² (roll/manual feed); 60 to 220 g/m ² (auto sheet feeder)
Media width, maximum	24 in
Media width, maximum	610 mm
Memory	1 GB
Model size	24 in

Model size	610 mm
Non-Operating Humidity Range	0 to 95% RH
Non-printable area (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 (cut-sheet)	5 x 5 x 5 x 17 mm (manual feed); 5 x 5 x 5 x 5 mm (input tray)
Non-printable area (roll media)	0.2 x 0.2 x 0.2 x 0.2 in
Non-printable area (roll media)	5 x 5 x 5 x 5 mm
Operating altitude	Up to 3000 m
Operating altitude	Up to 9843 ft
Operating humidity range	20 to 80% RH
Operating temperature range	5 to 40°C
Operating temperature range	41 to 104°F
Package dimensions (W x D x H)	1155 x 575 x 475 mm
Package dimensions (W x D x H)	45.5 x 22.6 x 18.1 in
Package weight	83.8 lb
Package weight	38 kg
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	40%
Power	Input voltage (auto ranging): 100-240 V (±10%), 50/60 Hz (±3 Hz), 1200 mA max
Print Cartridge/Bottle, Color(s)	Cyan, magenta, yellow, black
Print Cartridges/Bottle, Number	4 (C, M, Y, K) cartridges
Print Technology	Ink
Print cartridge/bottle volume delivered	80 ml (K); 38 ml (K); 29 ml (C, M, Y) per cartridge
Print head nozzles	1376
Print heads	1 (cyan, magenta, yellow, black)
Print languages	HP-GL/2, HP-RTL, CALS G4, JPEG, URF
Print multi-size files in one click	Yes
Print speed	26 sec/page on A1, 81 A1 prints per hour[1]
Print speed	26 sec/page on D, 81 D prints per hour[1]
Print technology	HP Thermal Inkjet
Printer drivers included	Raster driver for macOS and Windows, HP-GL/2 driver for Windows, HP Click Driver for Windows 11

Printing path	HP Click App, HP Click Driver, HP app, Windows and MacOS printer drivers, HP-GL/2 driver for Windows, Apple AirPrint, Android Default Print Service, Printing support for ChromeOS, Email printing
Product logos	AirPrint; ENERGY STAR; EPEAT Climate+ Gold; Carbon Neutral; Gold IPv6 Ready; Hi-Speed USB; UL Validated; Wi-Fi CERTIFIED; Windows 11 Compatible
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	3.9 in
Roll maximum input	1
Roll maximum weight	4.1 kg
Roll maximum weight	9 lb
Safety	USA and Canada (CSA certified); EU (LVD, EN 60950-1 and EN 62368-1 compliant); Russia, Belarus, Kazakhstan (EAC); Ukraine (UA); Singapore (PSB); China (CCC); Argentina (IRAM); India (BIS); Mexico (NYCE)
Security features	HP Wolf Essential Security: Secure boot with HW root of trust; Firmware Code Signature Validation; Automatic FW Updates; HTTPS Redirect enabled by default; SNMPv1/2 read-only by default; SNMPv3 disabled by default; Write-protected memory; HP Cartridge Security; Unique password; Disable USB ports; TLS 1.2; 802.1x; IPv4 & IPv6 Compatibility; CA/JD Compatibility
Storage temperature range	-13 to 131°F
Storage temperature range	-25 to 55°C
Supported Primary Applications	Line drawings; Presentations; Renderings
Theoretical minimum line width	0.0008 in
Theoretical minimum line width	0.02 mm
UNSPSC code	43212104
UPC number	198701027027
Web address for additional information	http://www.hp.com/go/designjett650

HP Care Pack Services

★ : Recommended

Graphics Solutions Care Pack Services

HP 2 year Next Business Day Hardware Support for Designjet T630-24 andT650-24 (AMS/APJ)	UD5H2E ★
HP 3 year Next Business Day Hardware Support for Designjet T630-24 andT650-24 (AMS/APJ)	UD5H3E ★
HP 4 year Next Business Day Hardware Support for Designjet T630-24 andT650-24 (AMS/APJ)	UD5H4E ★
HP 5 year Next Business Day Hardware Support for Designjet T630-24 andT650-24 (AMS/APJ)	UD5H5E ★
HP Installation and Network Setup Service for Designjet Low End Series	UC744E

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
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