HP DesignJet T650 36-in Printer (5HB10D)



Overview

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

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 25 seconds.[8] 1 GB memory.

INTUITIVE—Easy, effortless printing

Print multi-size A3/B and A1/D or A0/E projects automatically, without manually switching the media source.

OPTIMIZED—Fits the way you work

Avoid waiting by the printer with high-speed printing as fast as 25 seconds per A1/D plot.[8]

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].

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

[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.

[8]Incorporation of a minimum of 5% of certified recycled metal, expected to be implemented in units manufactured after April 1st, 2025. Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal. This number is the minimum and may vary slightly due to manufacturing processes and material availability.

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
Dimensions (W x D x H)	1317 x 605 x 932 mm
Dimensions (W x D x H)	51.9 x 23.8 x 36.7 in
Weight	35.4 kg
Weight	78 lb
Power consumption	<35 W (printing), <5.6 W (ready), <2.1 W (sleep), <0.2 W (off)
Environmental certification	ENERGY STAR; WEEE; EU RoHS; EAEU RoHS; REACH; ErP; EPEAT Climate+ Gold; UL Ecologo
What's in the box	HP DesignJet T650 36-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	B3Q37A HP DesignJet 36-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)
Additional information about HP	http://www.hp.com
Additional information about HP in the countries	hp.com
Cartridge volume	Less than 130 ml
Color ink technology	Pigment; Dye
Datasheet photo 1	AHID/104018d5dd2544c3c796bf93ad589013bdd976d0
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)
End of Life CO2e (kg)	16.235
Energy Usage CO2e (kg)	0.005
Features	Automatic horizontal cutter; Stand
Finished output handling	Sheet feed, roll feed, automatic sheet feeder, media bin, automatic horizontal cutter
Functions	Print
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]
Maximum roll diameter	3.9 in
Media sizes standard (metric rolls)	279 to 914 mm
Media sizes standard (sheets, rolls)	11 to 36 in
Media sizes supported	Auto sheet feeder: A4, A3; manual feed: A4, A3, A2, A1, A0
Media sizes supported	Auto sheet feeder: A, B; manual feed: A, B, C, D, E
Media sizes, custom	Auto sheet feeder: 210 x 279 to 330 x 482 mm; manual feed: 210 x 279 to 914 x 1897 mm

Media sizes, custom	Auto sheet feeder: 8.3 x 11 to 13 x 19 in; manual feed: 8.3 x 11 to 36 x 74.7 in
Media thickness	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	60 to 280 g/m² (roll/manual feed); 60 to 220 g/m² (auto sheet feeder)
Media width, maximum	914 mm
Media width, maximum	36 in
Memory	1 GB
Model size	914 mm
Model size	36 in
Non-Operating Humidity Range	0 to 95% RH
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 (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 (roll media)	5 x 5 x 5 x 5 mm
Non-printable area (roll media)	0.2 x 0.2 x 0.2 x 0.2 in
Number of cartridges	4
Operating altitude	Up to 3000 m
Operating altitude	Up to 9843 ft
Operating humidity range	20 to 80% RH
Operating temperature range	5 to 40ºC
Operating temperature range	41 to 104ºF
Package dimensions (W x D x H)	1470 x 575 x 590 mm
Package dimensions (W x D x H)	57.9 x 22.6 x 23.2 in
Package weight	56 kg
Package weight	123.5 lb
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	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	20 to 30 sec/page on D size
Print speed	25 sec/page on A1, 82 A1 prints per hour[1]
Print speed	25 sec/page on D, 82 D prints per hour[1]
Print technology	HP Thermal Inkjet
Printer Applications	Architecture; Engineering; Construction; Technical documents; Presentation graphics
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
Production CO2e (kg)	241.705
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	6.2 kg
Roll maximum weight	13.6 lb
Roll size	Up to 36 in
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)
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	-25 to 55ºC
Storage temperature range	-13 to 131ºF

Supported Primary Applications	Line drawings; Presentations; Renderings
Sustainability Impact	ENERGY STAR®; EPEAT®
Technology logo 1	AHID/461085c1b740909bae1c0b88638e669f7e1c8782
Technology logo 2	Publication logos/energy star Tom apj.JPG
Technology logo 3	AHID/8f2b0446d02d2e54e6c123f11ebdbbd8ada83f43
Technology logo 4	AHID/945487f2bd084417f5faf1dc22fc2c60d9acd6f2
Technology logo 5	AHID/1f8b1ff3a68a6ba2a0939f2536845c50fe9dec4f
Technology logo 6	AHID/92e74a15218e3d0766f7f42cd3434c98bbcd3e3b
Technology logo 7	AHID/25703585f45c14f5879b159e43544b4669b14304
Technology logo 8	AHID/0ce4deb7835f1233fcbf0fb11f1141211f8d0973
Technology logo 9	AHID/7c92119c6f0161fdfe5993e65c65a4267a0b90c0
Theoretical minimum line width	0.02 mm
Theoretical minimum line width	0.0008 in
Total CO2e (kg)	277.702 *(A product carbon footprint is defined as the total amount of greenhouse gases emitted directly and indirectly by a product over its lifetime. Greenhouse gas emissions are reported as global warming potential for 100-year time horizon (GWP-100) in units of CO2 equivalence. Calculations are done in accordance with ISO 14040 & ISO 14044. Individual values may not sum to total due to rounding.)*
Transportation CO2e (kg)	19.757
UNSPSC code	43212104
UPC number	(ABG) 198701026747; (AC4) 198701027973; (ACJ) 198701027959; (AKV) 198701027935; (B19) 198701027911; (B1K) 198701027904; (BCD) 198701028147
Web address for additional information	http://www.hp.com/go/designjett650

Services

HP Care Pack Services

★ : Recommended

Graphics Solutions Care Pack Services

HP 2 year Next Business Day Hardware Support for Designjet T650-36(AMS/APJ)	**UD5J6E ★**
HP 3 year Next Business Day Hardware Support for Designjet T650-36 (AMS/APJ)	**UD5J7E ★**
HP 5 year Next Business Day Hardware Support for Designjet T650-36(AMS/APJ)	**UD5J9E ★**
HP 1 year Post Warranty Next Business Day Hardware Support for DesignJet T650-36	**UD5K0PE ★**
HP Installation and Network Setup Service for Designjet Low End Series	**UC744E ★**
HP 2 year Post Warranty Next Business Day Hardware Support for DesignJet T650-36	UD5K1PE
HP 4 year Next Business Day Hardware Support for Designjet T650-36(AMS/APJ)	UD5J8E
HP Excessive Installation Service DesignJet (NASPO Only)	U46TYE
HP Maintenance Kit Replacement Service for DesignjetT2XX-36/T6XX-36/Studio36 (PMK1 Carriage)	U22MZE
HP Return to Support Service for DesignJet (Midrange 36 inch)	U67TVE

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 36-in Spindle	B3Q37A

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