Datasheet

# HP DesignJet T1600 Printer series

## DESIGNED TO DELIVER—Extraordinary performance to move projects forward



### EXPERIENCE SIMPLICITY—At the high-end

- Adopt a smart workstyle with easy PDF printing using HP Click software. [1]
- Empower your workforce. Easily print and share jobs from the cloud with your mobile device and HP Smart app.
- Fits your workplace with the most compact footprint and most quiet operation, with up to 87% less noise.[2]

### UNLEASH PERFORMANCE—To turn design into delivery

- Showcase design versatility from precise line drafts to boldly colored 3D renders, with HP Bright Office Inks.
- Provide the highest accuracy and display the finest details with the unique Adobe PDF Print Engine.[3]
- Meet deadlines with the fastest speed up to 180 D/hr[2], and dual roll option.[4]
- Cut out unproductive tasks with integrated automatic print stacking, up to 100 pages.

### SECURE—World's most secure large-format printer[5]

- Rely on the best network protection with features like HP Secure Boot and whitelisting.[5]
- Control who accesses the printer and its confidential documents with secure user authentication.
- Keep your fleet secure at any time with HP JetAdvantage Security Manager.

For more information, please visit http://www.hp.com/go/designjett1600

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

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[1] Compared to Canon Direct Print & Share and based on "One Click Print." Once image is selected, one-click printing when printing the entire file without any modifications to the print settings. Applicable to PDF, JPEG, TIFF, DWF, HP-GL/2 files.
[2] Based on comparable large-format inkjet printers under $12,000 (USD) as of December, 2018. IDC figures show that Canon, Epson, and HP combine for 98% share of this printing category worldwide as of Q3, 2018. Fastest print speed based on sustained printing speeds. Most compact footprint calculated using all devices in "Operation mode" with an Open Basket and the arm of the Screen (front panel) spread out to enable user interaction. Most quiet according to internal HP testing of sound pressure level during operating mode (plain paper, line drawing, Normal mode) compared to published specification of competitive printers. Percentage calculations of noise based on lineal units vs. Canon TX-3000 published spec of 51dB(A).
[3] Requires purchase of the HP DesignJet T1600 PostScript® models or optional HP DesignJet PostScript/PDF Upgrade Kit. Highest accuracy and finest details compared to printers without the embedded Adobe technology excluding RIP users, and based on internal HP testing with PDF files containing special fonts, PANTONE® colors, smooth shading, overprint, and transparencies that can only be reproduced using the Adobe PDF Print Engine. The Adobe PDF Print Engine (APPE) is Adobe's high speed, high fidelity print platform. To learn more, visit https://www.adobe.com/products/pdfprintengine.html
[4] Dual rolls included with HP DesignJet T1600dr printers only.
[5] Advanced embedded security features are based on HP review of 2019 published embedded security features of competitive printers, as of February 2019.

# Technical specifications

## Print

| | |
|---|---|
| Print speed | 180 D/hr, 19.3 sec/D[1] |
| Print resolution | Up to 2400 x 1200 optimized dpi |
| Technology | HP Thermal Inkjet |
| Margins | Roll: 0.12 x 0.12 x 0.12 x 0.12 in<br>Sheet: 0.12 x 0.87 x 0.12 x 0.12 in |
| Ink types | Dye-based (C, M, Y, pK, G); pigment-based (mK) |
| Ink drop | 6 pl (C, M, Y, G, pK); 9 pl (mK) |
| Printheads | 1 universal printhead |
| Line accuracy | ±0.1%[2] |
| Minimum line width | 0.0008 in (PDF addressable @ 1200 dpi) |

## Media

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|---|---|
| Handling | Sheet feed, automatic front-loading roll feed, smart roll switching[3], integrated output stacker[4], media bin, automatic horizontal cutter |
| Roll size | 11 to 36 in |
| Sheet size | 8.3 x 11 to 36 x 48 in |
| Standard sheets | A, B, C, D, E |
| Grammage | 60 to 328 g/m² |
| Thickness | Up to 19.7 mil |
| Applications | Line drawings; Maps; Orthophotos; Presentations; Renderings |
| Memory | 128 GB (file processing)[5] |
| Hard disk | 500 GB self-encrypting removeable |

## Connectivity

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|---|---|
| Interfaces | Gigabit Ethernet (1000Base-T), Wi-Fi (with optional Jetdirect accessory), supporting the following standards: TCP/IP, BootP/DHCP (IPv4 only), DHCPv6, TFTP (IPv4 only), SNMP (v1, v2c, v3), Apple Bonjour Compatible, WS Discovery, Embedded Web Server (HTTP, HTTPS), IPsec, SMTP (email), Raw IP printing (9100), LPD, IPP, WS print, NTLM v2, SMBv3, SSL/TLS, 802.1X authentication (LEAP, PEAP, EAP-TLS), DFS |
| Native print languages | PostScript Printer: Adobe PostScript 3, Adobe PDF 1.7, HP-GL/2, HP-RTL, TIFF, JPEG, CALS G4<br>Non-PostScript Printer: HP-GL/2, HP-RTL, TIFF, JPEG, CALS G4 |
| Print languages (optional) | Non-PostScript Printer: Adobe PostScript 3, Adobe PDF 1.7 |
| Printing paths | Direct printing from USB flash drive, print from network shared folder, email printing, HP driver for Windows, HP Print Service for Android, Apple AirPrint driver for MacOS and for iOS, HP Print for Chrome OS, HP Click, HP Smart App for iOS and Android |
| Drivers | PostScript Printer: Raster, PostScript and PDF drivers for Windows, AirPrint for macOS<br>Non-PostScript Printer: Raster drivers for Windows, AirPrint for macOS |
| Security features | HP Secure Boot, Whitelisting, 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 JetAdvantage 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)

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|---|---|
| Printer | 55 x 30 x 43 in |
| Shipping | 58.1 x 30.2 x 31.5 in |

## Weight

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|---|---|
| Printer | Single-roll: 181 lb, dual-roll: 187 lb |
| Shipping | Single-roll: 249 lb, dual-roll: 258 lb |
| What's in the box | HP DesignJet T1600 Printer, printer stand and media bin, spindle(s)[6], printheads, introductory ink cartridges, user guide, power cords |
| HP Software and solutions | HP Click, HP mobile, ePrint and iOS/Android support plus the HP Smart app for mobile, HP Web Jetadmin, HP JetAdvantage Security Manager, HP SmartTracker (optional) |

## Environmental ranges

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|---|---|
| Operating temperature | 41 to 95ºF |
| Operating humidity | 20 to 80% RH |
| Storage temperature | -13 to 131ºF |

## Acoustics

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|---|---|
| Sound pressure | 42 dB(A) (operating), 32 dB(A) (idle), <17 dB(A) (sleep) |
| Sound power | ≤5.9 B(A) (operating), 4.9 B(A) (idle), ≤3.5 B(A) (sleep) |

## Power

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|---|---|
| Consumption | 100 W (printing); <36 W (ready); <10 W (sleep); 0.3 W (off) |
| Requirements | Input voltage (auto ranging) 100–240 V (±10%), 50/60 Hz (±3 Hz), 2 A max |

## Certification

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

# Ordering information

## Product

| | |
|---|---|
| 3EK10A | HP DesignJet T1600 36-in Printer |
| 3EK11A | HP DesignJet T1600 36-in PostScript Printer |
| 3EK13A | HP DesignJet T1600dr 36-in PostScript Printer |

## Accessories

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|---|---|
| 5EK00A | HP HD Pro 2 42-in Scanner |
| 5EK00D | HP HD Pro 2 42-in Scanner |
| 5EK01A | HP SD Pro 2 44-in Scanner |
| 5EK01D | HP SD Pro 2 44-in Scanner |
| 5NB95A | HP SmartTracker USB for DesignJet |
| 5NB95AAE | HP SmartTracker for DesignJet |
| 7HC76A | HP DesignJet PostScript/PDF Upgrade Kit |
| CN538A | HP DesignJet 3-in Core Adapter |

## Original HP printing supplies

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|---|---|
| B3P06A | HP 727/732 DesignJet Printhead |
| P2V62A | HP 730 130-ml Cyan DesignJet Ink Cartridge |
| P2V63A | HP 730 130-ml Magenta DesignJet Ink Cartridge |
| P2V64A | HP 730 130-ml Yellow DesignJet Ink Cartridge |
| P2V65A | HP 730 130-ml Matte Black DesignJet Ink Cartridge |
| P2V66A | HP 730 130-ml Gray DesignJet Ink Cartridge |
| P2V67A | HP 730 130-ml Photo Black DesignJet Ink Cartridge |
| P2V68A | HP 730 300-ml Cyan DesignJet Ink Cartridge |
| P2V69A | HP 730 300-ml Magenta DesignJet Ink Cartridge |
| P2V70A | HP 730 300-ml Yellow DesignJet Ink Cartridge |
| P2V71A | HP 730 300-ml Matte Black DesignJet Ink Cartridge |
| P2V72A | HP 730 300-ml Gray DesignJet Ink Cartridge |
| P2V73A | HP 730 300-ml Photo Black DesignJet Ink Cartridge |

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 hp.com/go/OriginalHPinks.

### Original HP large format printing materials

C6810A HP Bright White Inkjet Paper (FSC® certified)[7] (recyclable)[8] 914 mm x 91.4 (36 in x 300 ft)
C6980A HP Coated Paper (PEFC™ certified)[7] (recyclable)[8] 914 mm x 91.4 (36 in x 300 ft)
L5C80A HP Universal Heavyweight Coated Paper, 3-in Core (FSC® certified)[7] (recyclable)[8] 914 mm x 91.4 m (36 in x 300 ft)
D9R28A HP Everyday Matte Polypropylene, 3-in Core 914 mm x 61 m (36 in x 200 ft)

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

### Service and Support

UB8P0E HP 3 year Next Business Day Onsite Hardware Support with Defective Media Retention (1-roll)
UB8T2E HP 3 year Next Business Day Onsite Hardware Support with Defective Media Retention (2-roll)
UB8P1E HP 4 year Next Business Day Onsite Hardware Support with Defective Media Retention (1-roll)
UB8T3E HP 4 year Next Business Day Onsite Hardware Support with Defective Media Retention (2-roll)
UB8P2E HP 5 year Next Business Day Onsite Hardware Support with Defective Media Retention (1-roll)
UB8T4E UB8P2E HP 5 year Next Business Day Onsite Hardware Support with Defective Media Retention (2-roll)
UB8P3PE HP 1 year Post Warranty Next Business Day Onsite Hardware Support with Defective Media Retention (1-roll)
UB8T5PE HP 1 year Post Warranty Next Business Day Onsite Hardware Support with Defective Media Retention (2-roll)
U1XV4EHP Preventive Maintenance Service
H4518E HP Installation Service with Network Setup

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

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[1] Mechanical printing time. Printed in Fast mode with Economode on, using HP Bright White Inkjet Paper (bond) and Original HP inks.
[2] ±0.1% of the specified vector length or ±0.2 mm (whichever greater) at 23ºC (73ºF), 50–60% relative humidity, on A0/E HP Matte Film in Best or Normal mode with Original HP inks
[3] Applicable for dual-roll printers only.
[4] From A4/A to A0/E, with up to 100 A1/D-size capacity.
[5] Based on 4 GB RAM.
[6] Single-roll printers come with one spindle, dual-roll printers come with two spindles.
[7] 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.
[8] Can be recycled through commonly available recycling programs.