HP LaserJet Managed E50145dn

Redefine long-term expectations

Choose an HP LaserJet Enterprise printer designed to handle business solutions securely and efficiently, and helps conserve energy with HP EcoSmart black toner. Keep up with the demands of growing business with a printer you can rely on.[1]

This printer uses dynamic security, which may be updated periodically by firmware updates. The printer is intended to be used solely with cartridges using an original HP chip. Cartridges using a non-HP chip may not function or may cease to function. More at: Learn more at: www.hp.com/learn/ds

Low energy

Color touchscreen

HP JetAdvantage compatible

The world's most secure printing[2]

- Each printer in your fleet checks its operating code and repairs itself from attacks.
- Your printer's outgoing network connections are inspected to stop suspicious requests and thwart malware.
- Memory activity is monitored to continually detect and stop attacks.
- Firmware is automatically checked during startup to determine if it's authentic code – digitally signed by HP.

Low costs, low energy use

- Stay productive with reliable cartridges, and help save energy while printing with HP EcoSmart black toner.[1]
- Spend less time replacing toner, and more on business. Choose optional high-yield toner cartridges.[3]
- Enhanced energy savings – up to 29% over prior products[1] plus save with Auto-on/Auto-off technology.[4]
- This printer fits in tight places to boost performance in almost any workspace.

A whole fleet at your control

- Centralise control of your printing environment with HP Web Jetadmin[5] – and help build business efficiency.
- Gain insights into print costs, behaviors, utilization to drive efficiencies with this cloud-based printer.
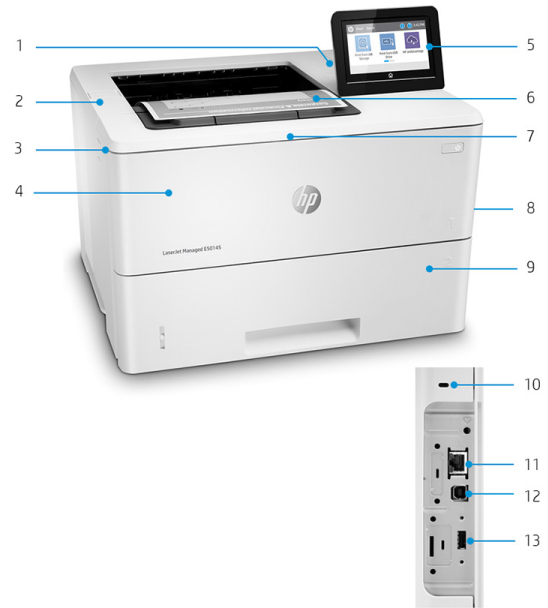- Set security configuration policies and automatically validate settings for every HP printer in your fleet.[6]

Enhanced productivity keeps business moving

- Submit print jobs on the go and securely release them at any HP Roam-enabled office printer, securely.[7]
- Scan files directly to Microsoft® Office and SharePoint, plus email, USB, and network folders.[8]
- Easily print from a variety of smartphones and tablets – generally no setup or apps required.[9]
- Don't wait for documents. Print your first page in as little as 5.9 seconds from energy-efficient sleep mode.

Product walkaround

HP LaserJet Managed E50145dn printer shown

1. 2nd generation Hardware Integration Pocket
2. Easy-access USB port
3. Top cover release button
4. 100 sheet multipurpose tray 1 supports media sizes up to 216 x 356 mm
5. 10.9 cm colour touchscreen
6. 250 sheet output bin
7. Top cover (access to Original HP JetIntelligence Toner cartridge)
8. Automatic two-sided printing
9. 550 sheet input tray 2 supports media sizes up to 216 x 356 mm
10. Slot for cable-type security lock
11. Gigabit Ethernet, Host USB port
12. Hi-Speed USB 2.0 printing port
13. USB port for connecting external USB devices

Accessories, Supplies and Support

Supplies	**W9008MC** HP Black Managed LaserJet Toner Cartridge (23,000 pages)
Service and Support	**UB7E7E** HP 3 years Next Business Day with Defective Media Retention for LaserJet Enterprise E50145 Managed service **UB7E8E** HP 4 years Next Business Day with Defective Media Retention for LaserJet Enterprise E50145 Managed service **UB7E9E** HP 5 years Next Business Day with Defective Media Retention for LaserJet Enterprise E50145 Managed service **UB7F6PE** HP 1 year Post Warranty Next Business Day with Defective Media Retention for LaserJet Enterprise E50145 Managed service **UB7F7PE** HP 2 years Post Warranty Next Business Day with Defective Media Retention for LaserJet Enterprise E50145 Managed service

Technical specifications

Model	HP LaserJet Managed E50145dn
Product number	1PU51A
Functions	Print
Control panel	10.92 cm (4.3 in) Colour Graphics Display (CGD) with touchscreen; Rotating (adjustable angle) display; Home button
Print	
Print technology	Laser
Print speed[1]	**Black (A4, normal)**: Up to 43 ppm (default) ; Up to 50 ppm (Hp High Speed); **Black (A4, duplex)**: Up to 34 ipm;
First page out[2]	**Black (A4, ready)**: As fast as 5.9 sec; **Black (A4, sleep)**: As fast as 10 sec;
Print resolution	**Black (best)**: Up to 1200 x 1200 dpi; **Technology**: 300 dpi, 600 dpi, HP FastRes 1200, HP ProRes 1200;
Monthly duty cycle[3]	Up to 150,000 pages A4; **Recommended monthly page volume**[13]: 2,000 to 15,000
Printer smart software features	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, easy-access USB
Standard print languages	HP PCL 6, HP postscript level 3 emulation, native PDF printing (v 1.7), Apple AirPrint™
Fonts and typefaces	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP postscript Level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono World Type); 2 Internal Windows Vista 8 Fonts (Calibri, Cambria); Additional font solutions available via third-party flash memory cards; HP LaserJet Fonts and IPDS Emulation available at http://www.hp.com/go/laserjetfonts
Print area	**Print margins** Top: 4.3 mm, Bottom: 4.3 mm, Left: 4.3 mm, Right: 4.3 mm; Maximum print area : 212 x 352 mm
Duplex printing	Automatic (standard)
Processor speed	1.2 GHz
Connectivity	
Standard	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network
Optional	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gig Links; IPsec (standard); 802.11a/b/g/n wireless networking (optional); second Ethernet port (optional)
Mobile printing capability[5]	Apple AirPrint™; Google Cloud Print™; HP ePrint; Mopria™ Certified; ROAM capable for easy printing
Supported network protocols	Via built-in networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, IPP 2.0, Apple AirPrint™, HP ePrint, FTP Print, Google Cloud Print; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual, TFTP Config, ARP-Ping), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPs, Telnet, TFTP Config, Syslog; Security: SNMPv3, SSL Cert Management, IPSec/Firewall, ACL, 802.1x
Network capabilities	HP Jetdirect 2900nw Print Server J8031A, HP Jetdirect 3000w NFC/Wireless Accessory J8030A, HP Jetdirect 3100w BLE/NFC/Wireless
Hard disk	Optional, 500 GB minimum encrypted hard disk drive
Memory	**Standard**: 512 MB ;**Maximum**: 1.5 GB, MAX memory, when 1 GB Accessory DIMM is installed
Media handling	
Number of paper trays	**Standard**: 2 ;**Maximum**: 5
Media types	Paper (bond, colour, plain, preprinted, prepunched, recycled, rough); Envelopes; Labels; Cardstock; Transparencies; User-defined
Media size	**Custom (metric)**: Tray 1: 76.2 x 127 to 215.9 x 355.6 mm; Tray 2: 105 x 148 to 215.9 x 355.6 mm; Optional 550 sheet Tray: 105 x 148 to 215.9 x 355.6 mm **Supported (metric)**: Tray 1: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), 10 x 15 cm, Oficio (216 x 340 mm), 16K, postcards (JIS single and double), envelopes (B5, C5, C6, DL); Tray 2: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), Oficio (216 x 340 mm), 16K, postcards (JIS double); Optional 550 sheet Tray: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), Oficio (216 x 340 mm), 16K, postcards (JIS double); Optional Automatic Duplexer: A4, RA4, Oficio (216 x 340 mm)

Model	HP LaserJet Managed E50145dn
Product number	1PU51A
Media handling	**Standard input:** 100 sheet multipurpose Tray 1, 550 sheet input Tray 2, automatic duplex printing **Standard output:** 250 sheet output bin **Optional input:** Up to 3 optional 550 sheet paper feeders
Media weight	Tray 1: 60 to 200 g/m²; Tray 2+: 60 to 120 g/m²
Input capacity	**Tray 1:** Sheets: 100; Transparencies: 50; Envelopes: 10 **Tray 2:** Sheets: 550 **Tray 3:** Sheets: 550 **Maximum:** Up to 2,300 sheets
Output capacity	**Standard:** Up to 250 sheets Envelopes: Up to 10 envelopes Transparencies: Up to 75 sheets **Maximum:** Up to 250 sheets
Compatible operating systems	Windows Client OS (32/64 bit), Win10, Win8.1, Win 8 Basic, Win8 Pro, Win8 Enterprise, Win8 Enterprise N, Win7 Starter Edition SP1, UPD Win7 Ultimate, Mobile OS, iOS, Android, Mac, Apple® macOS Sierra v10.12, Apple® macOS High Sierra v10.13, Apple® macOS Mojave v10.14, Discrete PCL6 Printer Driver, For more information on the supported operating systems go to http://www.support.hp.com, Enter your product name and search, Click on User Guides and enter your product name and search for User Guide, Search for your (Product Name) - User Guide, Search for the Supported Operating Systems section, UPD PCL6 / PS Printer Drivers, Supported Operating systems, For more information on the supported operating systems see http://www.hp.com/go/upd
Compatible network operating systems	Windows Server 2008 R2 64-bit, Windows Server 2008 R2 64-bit (SP1), Windows Server 2012 64-bit, Windows Server 2012 R2 64-bit, Windows Server 2016 64-bit, Failover Cluster 2008 R2, Failover Cluster 2012 R2, Terminal server 2008 R2, Remote Desktop server 2012 R2, Citrix Server 6.5, Citrix XenApp & XenDesktop 7.6, Novell iPrint server, Citrix Ready Kit Certification - Up to Citrix Server 7.18 (for more information see http://www.citrixready.citrix.com), Linux (for more information see http://www.developers.hp.com/hp-linux-imaging-and-printing), Unix (for more information see http://www.hp.com/go/unixmodelscripts), UPD PCL6 / PS Printer Drivers, Supported for Compatible Network Operating systems (please see http://www.hp.com/go/upd)
Minimum system requirements	**Windows**: 2 GB available hard disk space, Internet connection, USB port, Internet browser, for additional OS hardware requirements see http://www.microsoft.com **Mac**: 2 GB available hard disk space, Internet connection or USB port, OS hardware requirements see http://www.apple.com
Software included	No software solutions are included in the Box, only on http://www.hp.com, http://www.123.hp.com
Security management	Identity management: Kerberos authentication; LDAP authentication; 1000 user PIN codes; Optional HP and 3rd party advanced authentication solutions (e.g.: badge readers); Network: IPsec/firewall with Certificate, Pre-Shared Key and Kerberos authentication; Supports WJA-10 IPsec configuration Plug-in; 802.1X authentication (EAP-PEAP; EAP-TLS); SNMPv3; HTTPS; Certificates; Access Control List; Data: Storage Encryption; Encrypted PDF & Email (uses FIPS 140 validated cryptographic libraries from Microsoft); Secure Erase; SSL/TLS (HTTPS); Encrypted Credentials; Device: Security lock slot; USB port disablement; Hardware integration pocket for security solutions; Intrusion Detection with Red Balloon Security Technology - Constant in-device monitoring for attacks; SureStart Secure Boot - BIOS Integrity Checking with self-healing capability; Whitelisting - loads only known good code (DLLs, EXEs,...); Connection Inspector - helps ensure network connections to device are safe; Security management: Compatible with HP JetAdvantage Security Manager; HP Printer Security Plugin for Microsoft SCCM; Device Security Syslog Messages processed and accessible in ArcSight, Splunk, and McAfee(ESM) SIEMs
Printer management	HP Printer Assistant; HP Device Toolbox; HP Web JetAdmin Software; HP JetAdvantage Security Manager; HP SNMP Proxy Agent; HP WS Pro Proxy Agent; Printer Administrator Resource Kit for HP Universal Print Driver (Driver Configuration Utility - Driver Deployment Utility - Managed Printing Administrator)
Dimensions and weight	
Printer dimensions (W x D x H)	**Minimum** 418 x 376 x 326 mm; **Maximum:** 418 x 639 x 326 mm
Package dimensions (W x D x H)	497 x 398 x 466 mm
Printer weight[6]	11.48 kg
Package weight	14.3 kg
Operating environment	**Temperature**: 10 to 32.5°C **Humidity**: 30 to 70% RH
Storage conditions	**Temperature**: -20 to 40°C
Acoustics[7]	**Acoustic power emissions**: 6.8 B(A) **Acoustic pressure emissions**: 54 dB(A)
Power[8]	**Requirements**: Input voltage: 220 V to 240 V nominal (+/-10%), 50 - 60 Hz nominal (+/-3 Hz), 4 A; **Consumption**: 601 watts (Active Printing), 7.60 watts (Ready), 2.61 watts (Sleep), 0.06 watts (Auto-Off), 0.06 watts (Off), Auto Off/Wake on LAN 0.73 Watt; **Typical Electricity Consumption (TEC)**[9]: Blue Angel: 1.257 kWh/Week; Energy Star 3.0: 0.420 kWh/Week; **Power supply type**: Built-in 115V or 220V Power Supply;
Energy savings feature technology	HP Auto-On/Auto-Off Technology; Instant-on Technology
Certifications[10]	CISPR 22:2008 (International) - Class A, CISPR32:2012 (International) - Class A, EN 55032:2012 (EU) - Class A, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010, EMC Directive 2014/30/EU, Issue 6 Class A, other EMC approvals as required by individual countries. Blue Angel; EPEAT® Silver; CECP; ENERGY STAR® qualified **Blue Angel compliant** Yes, Blue Angel DE-UZ 205—only ensured when using Original HP supplies
Country of origin	Made in Philippines; Made in Brazil
What's in the box[11]	HP LaserJet Managed E50145dn Printer; HP Original LaserJet Toner Cartridge (5,000 pages); Fixed-size cassette guides; Regulatory flyer; Unpack flyer; Installation guide; Power cord; Warranty cards; Support flyers/ phone number list
Warranty	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Contact your Contractual Vendor or go to http://www.hp.com/support to learn about HP award winning service and support options in your region.

Footnotes

[1] Based on HP testing using the ENERGY STAR® program's Typical Electricity Consumption (TEC) method or as reported in energystar.gov as of May 2019. Actual results may vary. HP testing is based on using the default Sleep Timer setting for all products and using the Network port. Default Sleep Timer setting is 0 minutes. Increasing the Sleep Timer setting longer than the default value can increase TEC.
[2] Based on HP review of 2018 published security features of competitive in-class printers. Only HP offers a combination of security features that can monitor to detect and automatically stop an attack then self-validate software integrity in a reboot. For a list of printers, visit http://www.hp.com/go/PrintersThatProtect. For more information: http://www.hp.com/go/printersecurityclaims.
[3] High Yield Black Original LaserJet Toner Cartridges not included, please purchase separately.
[4] HP Auto-On/Auto-Off Technology capabilities are subject to printer and settings.
[5] HP JetAdvantage Security Manager must be purchased separately. To learn more, please visit http://www.hp.com/go/securitymanager.
[6] HP Web Jetadmin is available for download at no additional charge at http://www.hp.com/go/webjetadmin.
[7] To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Subscription may be required. For more information, visit http://www.hp.com/go/roam.
[8] Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see https://www.hpconnected.com.
[9] Wireless operations are compatible with 2.4 GHz operations only. App or software and HP ePrint account registration may also be required. Some features require purchase of an optional accessory. Learn more at http://www.hp.com/go/mobileprinting.

Technical specifications disclaimers

[1] Measured using ISO/IEC 24734, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
[2] Measured using ISO/IEC 17629. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
[3] Duty cycle is defined as the maximum number of pages per month of imaged output. This value provides a comparison of product robustness in relation to other HP LaserJet or HP Color LaserJet devices, and enables appropriate deployment of printers and MFPs to satisfy the demands of connected individuals or groups.
[4] HP recommends that the number of pages per month of imaged output be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.
[5] To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Customer can purchase the HP Jetdirect 3100w BLE/NFC/Wireless accessory or the RadBeacon USB.
[6] With print cartridges.
[7] Acoustic values are subject to change. For current information see http://www.hp.com/support. Configuration tested: base model, simplex printing, A4 paper at an average of 43 ppm.
[8] Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Power consumption values typically based on measurement of 115 V device.
[9] Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Energy Star value typically based on measurement of 115 V device.
[10] EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country.
[11] In box cartridge yields 5,000 black pages based on ISO/IWC 19752 and continuous printing. Actual pages may vary considerably based on images printed and other factors. For more information, visit: http://www.hp.com/go/learnaboutsupplies.

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