

HP PageWide Managed Color MFP E77650zs-E77660zs Printer series



HP PageWide delivers a breakthrough low color cost, maximum uptime, and the strongest security.¹

HP Managed MFPs and printers are optimized for managed environments. Offering increased monthly page volumes and fewer interventions, this portfolio of products can help reduce printing and copying costs. See your HP Authorized Reseller for details.



HP PageWide Managed Color Flow MFP
E77650zs



HP PageWide Managed Color Flow MFP
E77660zs

Affordable color printing for every office

- Depend on lasting value. Get the results you expect for a game-changing low cost per color page.
- Print more pages and replace cartridges less often with optional high-yield cartridges.²
- Print even faster—and save even more per page—by setting this printer to General Office mode.³
- Help keep energy costs down with the most efficient printer in its class.⁴

Minimal interruptions. Maximum uptime.

- Minimize interruptions with an HP PageWide Managed MFP designed for the least maintenance in its class.⁵
- Print speeds up to 50% faster than competitors—as fast as 80 ppm in color and black-and-white.⁶
- Tailor this MFP to the needs of your business with a wide range of paper-handling accessories.
- Scan files directly to Microsoft® Office 365 and SharePoint, plus email, USB, and network folders.⁷

The world's most secure printing¹

- With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.
- Protect information on the MFP and in transit over the network, and store data on the encrypted hard disk.⁸
- Monitor activity to detect and stop attacks, then automatically reboot with run-time intrusion detection.
- Whitelisting checks firmware during startup to help ensure it's authentic, good code—digitally signed by HP.

Give workgroups the speed they need

- Help workgroups capture every page easily and detect potential errors or missed pages—every time.
- Enter data more quickly and accurately using the pull-out keyboard.
- Help ensure every scanned document is properly oriented, cropped to size, and grayscale-optimized.
- Load up to 200 pages into the automatic document feeder for fast, unattended scanning.

¹ Based on HP review of 2016 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/printerssecurityclaims> ² High-yield cartridges are not included in printer purchase; purchase separately. Comparison is based on ISO 24711 cartridge yields for HP 982X series High-Yield Original PageWide Cartridges compared with HP 982A series Original PageWide Cartridges. Learn more at <http://www.hp.com/go/learnaboutsplies> ³ Comparison based on printing in Professional Mode. ⁴ Energy claim based on TEC data reported on energystar.gov as of March 2017. Data normalized to determine energy efficiency of in-class A3 color laser printers (\$1500-\$2999) and MFPs (\$3000-\$7499) as of February 2017, excluding other HP PageWide products. Subject to device settings. Actual results may vary. ⁵ Fewer service parts claim based on BLI analysis of leading in-class A3 MFPs as of August 2016; calculations use publicly available and/or published manufacturer rated yields for long-life consumables and assume 600,000 pages printed (using a 60% black/40% color ratio). Learn more at <http://www.hp.com/go/pagewideclaims> ⁶ Comparison of HP PageWide A3 devices with the majority of in-class color ink/laser MFPs (\$3000-\$7499 and €2820-€7049), and color ink/laser single function printers (\$1500-\$2999 and €1410-€2819) as of April 2017; market share as reported by IDC as of Q4 2016, excluding other HP PageWide products. HP PageWide speeds based on General Office mode and exclude first page. Learn more at <http://www.hp.com/go/printerspeeds> ⁷ Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see <http://www.hpconnected.com> ⁸ Some features require additional purchase. A FutureSmart service pack update may be required to activate security features. Learn more at <http://www.hp.com/go/printsecurity> ⁹ Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

Product walkaround

HP PageWide Managed Color Flow MFP E77650zs

1. 8.0 inch (20.3 cm) pivoting color touchscreen
2. Hardware Integration Pocket¹
3. Easy-access USB printing port
4. Retractable keyboard²
5. Front door access to cartridges
6. 100-sheet multipurpose tray 1 supports media up to 12 x 18 inches (305 x 457 mm)
7. Automatic two-sided printing
8. 550-sheet tray 2 supports media up to 11.7 x 17 inches (297 x 432 mm)³
9. 200-sheet ADF with single-pass, two-sided scanning with HP EveryPage⁴ supports media up to 11.7 x 17 inches (297 x 432 mm)
10. Flatbed scanner handles sheets up to 11.7 x 17 inches (297 x 432 mm)
11. 350-sheet inner finisher with stapler⁵
12. 500-sheet output bin
13. Ethernet port, 2 Hi-Speed USB 2.0 Host ports, Hi-Speed USB 2.0 Device port



Front view

Series at a glance



Model	HP PageWide Managed Color Flow MFP E77650zs	HP PageWide Managed Color Flow MFP E77660zs
Product number	J7Z14A	J7Z07A
Functions	Print, scan, copy	Print, scan, copy
Print speeds, black and color, letter and A4 ⁶	Up to 50/70 ppm, Professional/General Office mode	Up to 60/80 ppm, Professional/General Office mode
300-sheet inner finisher with stapler ⁵	✓	✓
Retractable keyboard ²	✓	✓
HP EveryPage with ultrasonic detection, embedded OCR ⁴	✓	✓
Automatic page orientation, cropping, and tone adjustment	✓	✓
Control panel display	8.0 inch (20.3 cm) pivoting color touchscreen	8.0 inch (20.3 cm) pivoting color touchscreen
Paper input trays (standard)	100-sheet multipurpose tray 1, 550-sheet tray 2	100-sheet multipurpose tray 1, 550-sheet tray 2
Optional paper handling accessories ³	100-sheet multipurpose tray 1, 550-sheet tray 2, Cabinet, 3 x 550-sheet Paper Tray and Stand, 4,000-sheet HCl Paper Tray and Stand	550-sheet Paper Tray, 550 sheet Paper Tray and Cabinet, 3 x 550-sheet Paper Tray and Stand, 4,000-sheet HCl Paper Tray and Stand
Input capacity (standard/maximum ⁷)	Up to 650/4,650 sheets	Up to 650/4,650 sheets
Output capacity	Up to 500-sheet output bin, Up to 350-sheet stapler stacker; Staple up to 50 sheets	Up to 500-sheet output bin, Up to 350-sheet stapler stacker; Staple up to 50 sheets

¹ Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase. ²The retractable keyboard is available with HP PageWide Managed Color Flow MFP E77650zs and Color Flow MFP E77660zs models. ³The HP PageWide Managed Color MFP E77660 series comes standard with a 100-sheet multipurpose tray that supports up to 12 x 18 inches (305 x 457 mm) and one 550 sheet tray that supports up to 11.7 x 17 inches (297 x 432 mm). All models can add up to one of the following optional accessories: 550-sheet paper tray, 550 sheet paper tray and cabinet, 3x550-sheet paper tray and stand, or 4,000 sheet HCl paper tray and stand. The 550-sheet trays support up to 11.7 x 17 inches (297 x 432 mm). The optional HCl tray supports up to letter (A4). ⁴ HP EveryPage, ultrasonic detection, and embedded OCR are available with HP PageWide Managed Color Flow MFP E77650zs and Color Flow MFP E77660zs models. ⁵ The 300-sheet inner finisher with stapler is available with the HP PageWide Managed Color Flow MFP E77660zs model only. ⁶ Measured using ISO/IEC 24734, excludes first set of test documents. For more information see hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity. ⁷ Purchase of optional paper trays required to reach maximum input capacity.

HP Services

Downtime can have serious consequences, so HP provides support beyond the standard warranty. You benefit from reduced risk, maximized uptime, predictable service delivery and no unbudgeted repair costs. HP Care Pack Services provide a comprehensive suite of protection services designed to keep HP hardware and software up and running so employees can stay productive.

Next Business Day Onsite with Defective Media Retention:

Customers can retain their hard disk drive and keep control of sensitive data.

For carepack availability visit: hp.com/go/cpc



HP Smart App

Top features

Color printing is within every business' budget with HP PageWide Technology. Print professional-quality color for a breakthrough low cost—results you expect from HP for an exceptional value you can rely on.

Annoying interruptions and complex maintenance can slow down printing, and ultimately, the pace of business. Avoid pauses in productivity with an HP PageWide device designed for maximum uptime—so you can count on reliable results day in and day out.

Only HP Enterprise printers repair themselves from attacks in real time, with built-in security to help keep your network safe. Automatically monitor threats, detect intrusions, and validate operating software with security offered only by HP.¹

Accelerate workflow, improve accuracy, and easily connect people throughout your organization. Complete high-volume scan jobs super-fast—up to 240 ipm²—and avoid extra steps with a Flow MFP designed for maximum productivity.

Accessories

B5L28A	HP Internal USB Ports
B5L29A	HP High-Performance Secure Hard Disk
B5L31A	HP Foreign Interface Harness
CC487A	HP LaserJet MFP Analog Fax Accessory 500
E5K48A	HP 1 GB x32 144-pin (800 MHz)DDR3 SODIMM
J8030A	HP Jetdirect 3000w NFC/Wireless Accessory
J8031A	HP Jetdirect 2900nw Print Server
P1V16A	HP PageWide Managed 550-sheet Paper Tray
P1V17A	HP PageWide Managed 550-sheet Paper Tray and Cabinet
P1V18A	HP PageWide Managed 3x550 sheet Paper Tray and Stand
P1V19A	HP PageWide Managed 4000 sheet High-capacity Paper Tray and Stand

Supplies

M0K28XC	HP 990XC Black Contract PageWide Cartridges (~22,000 pages)
M0K05XC	HP 990XC Cyan Contract PageWide Cartridges (~16,000 pages)
M0K09XC	HP 990XC Magenta Contract PageWide Cartridges (~16,000 pages)
M0K24XC	HP 990XC Yellow Contract PageWide Cartridges (~16,000 pages)

Services

U9RL2E	HP 3 year Next Business Day w/Disk Media Retention PgWd Color 776xx Managed Service
U9RL3E	HP 4 year Next Business Day w/Disk Media Retention PgWd Color 776xx Managed Service
U9RL4E	HP 5 year Next Business Day w/Disk Media Retention PgWd Color 776xx Managed Service

¹ Based on HP review of 2016 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>. ² Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

HP PageWide Managed Color MFP E77650zs-E77660zs Printer series

Technical Specifications	HP PageWide Managed Color Flow MFP E77650zs (J7Z14A)	HP PageWide Managed Color Flow MFP E77660zs (J7Z07A)
AIO functions	Print, copy, scan, fax (optional); AIO multitasking supported: Yes	
Print speed	A4/Letter: Up to 50 ppm black/color (Professional mode), Up to 70 ppm black/color (General Office mode) ⁵ ; First Page Out: As fast as 7.1 sec black/color ⁶	A4/Letter: Up to 60 ppm black/color (Professional mode), Up to 80 ppm black/color (General Office mode) ⁵ ; First Page Out: As fast as 7.1 sec black/color ⁶
Print resolution	Black (best): Up to 1200 x 1200 optimized dpi from 600 x 600 input dpi (on Unspecified, Plain, HP Premium Presentation Matte, and HP Brochure Matte); Colour (best): Up to 2400 x 1200 optimized dpi from 600 x 600 input dpi (on HP Advanced Photo Papers)	
Print Technology	HP PageWide Technology; Print Resolution Technologies: HP PageWide Technology up to 1200 x 1200 optimized dpi from 600 x 600 input dpi	
Print Cartridges Number	4 (1 each black, cyan, magenta, yellow)	
Standard Print Languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation; PDF 1.7	
Printer Smart Software Features	HP SureStart; Run-time Intrusion detection; Whitelisting; HP Trusted Platform Module; HP JetAdvantage Security Manager; HP Web Jetadmin; Open Extensibility Platform, FutureSmart Firmware, HP ePrint, Apple AirPrint™, HP Auto-On/Auto-Off technology, HP Color Access Control, HP EasyColor, Front-facing USB printing, store print jobs, HP EasyColor, print preview, automatic two-sided printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, booklet printing, cover pages, tray selection, scaling, Portrait/Landscape orientation, High Quality Grayscale and Black Ink Only, General Office/Professional/Presentation dpi print modes, Optional: HP and third party extensibility solutions; wireless	
Printer Management	HP JetAdvantage Security Manager; HP SNMP Proxy Agent; HP Web JetAdmin Software; HP WS Pro Proxy Agent; Printer Administrator Resource Kit for HP Universal Print Driver	
Scan Type / Technology	Type: Flatbed, ADF; Technology: Charge Coupled Device (CCD) & Contact Image Sensor (CIS)	
Scan Resolution	Hardware: Up to 600 ppi; Optical: Up to 600 ppi	
Scan Size	ADF: 297 x 432 mm; Up to 297 x 864 mm when "long scan size" selected; 11.7 x 17 in; Up to 11.7 x 34 in when "long scan size" selected Maximum; 68 x 148 mm; 2.7 x 5.8 in Minimum; Flatbed: 11.7 x 17 in; Up to 120 ipm simplex and up to 240 ipm duplex	
Scan Speed	Up to 120 ipm simplex and up to 240 ipm duplex Duplex: Up to 120 ipm simplex and up to 240 ipm duplex	
Bit depth / Grayscale levels	24-bit/ 256	
Digital Sending Standard Features	Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to FTP; Send to LAN Fax; Send to Internet Fax; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Color Sense; Auto Crop To Content; Compact PDF	
Copy Speed	A4/Letter: Up to 50 cpm black/color; A4/Letter: Up to 50 cpm black/color (General Office mode); First Copy Out: As fast as 9.0 sec black/color	A4/Letter: Up to 60 cpm black/color; A4/Letter: Up to 60 cpm black/color (General Office mode); First Copy Out: As fast as 7.9 sec black/color
Copy Resolution	Black (text and Graphics): Up to 600 x 600 dpi; Color (text and Graphics): Up to 600 x 600 dpi	
Maximum Number of Copies	Up to 9999 copies	
Copier Resize	25 to 400%	
Copier Settings	Two-sided copying, scalability, image adjustments (darkness, contrast, background cleanup, sharpness), N-up, N or Z-ordering, content orientation, collation, booklet, ID Scan, job build, edge-to-edge, job storage	
Fax Speed	Up to: 33.6 kbps ⁴	
Fax Resolution	Black (best): Up to 300 x 300 dpi (400 x 400 dpi for received faxes only); Color (best): Up to 300 x 300 dpi (400 x 400 dpi for received faxes only); Black (standard): 204 x 98 dpi	
Fax Smart Software Features	Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule	
Fax Features	Auto Fax Reduction Supported: Yes; Auto-Redialing: Yes; Fax Delayed Sending: No; Distinctive Ring Detection Supported: No; Fax Forwarding Supported: Yes; Fax Phone TAM Interface Supported: No; Fax Polling Supported: Yes (poll to receive only); Fax Telephone Mode Supported: No; Junk Barrier Supported: Yes; Maximum Speed Dialing Numbers: Up to 1000 numbers (each with 210 destinations); PC Interface Supported: Yes; Remote Retrieval Capability Supported: No; Telephone Handset Supported: No	
Standard Connectivity	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket	
Network Capabilities	Via HP Jetdirect Ethernet embedded print server (standard) supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec (standard)	
Wireless Capability	Optional, enabled with purchase of a hardware accessory	
Mobile Printing Capability	HP ePrint, Apple AirPrint™, Google Cloud Print	
Processor Speed	1.2 GHz	
Duty Cycle	Monthly, A4: Up to 200,000 pages Recommended Monthly Page Volume: 2,500 to 50,000 (print)	
Paper Handling	Input Capacity, Max: Up to 4,650 sheets; Up to 2,300 sheets Legal/A3/Tabloid; Up to 10 envelopes; Up to 1,840 cards; Up to 1,840 labels; Output Capacity, Max: Up to 850 sheets; Up to 50 envelopes; Up to 325 cards; Up to 200 labels; Standard Input Capacities: 100-sheet multipurpose tray, 550-sheet input tray; Output Capacities: 500-sheet output bin; 350-sheet stapler stacker; Staple up to 50 sheets; Duplex: Automatic (standard); Auto Document Feeder Capacity: Up to 200 sheets; Envelope Feeder: No; Standard Paper Trays: 2; Media Types Supported: Paper (Plain, Inkjet, Inkjet Brochure/Glossy), Photo Paper, Envelopes, Labels, Cards; Media Weight Supported: Tray 1: 16 to 58 lb, 80 lb Photo Paper Only; Trays 2-5: 16 to 58 lb; Media Sizes Supported: Letter, Letter-R, Legal, Executive, Statement, Officio (8.5x13), 11x17, 12x18, 4x6, 5x7, 5x8, Envelope #10, Envelope B5, Envelope C5, Envelope C6, Envelope DL, Envelop Chou #3; Media Sizes Custom: Tray 1: 3.9 x 5 to 12 x18; 550-sheets: 8.27 x 5.83 to 11.70 x 17 in HCI Trays 3 & 4: A4 & Letter (no custom size)	

HP PageWide Managed Color MFP E77650zs-E77660zs Printer series

Technical Specifications	HP PageWide Managed Color Flow MFP E77650zs - Bundle Product 50 ppm (J7Z14A)	HP PageWide Managed Color Flow MFP E77660zs - Bundle Product 60 ppm (J7Z07A)
Product Dimensions	W x D x H: 32 x 24.25 x 31.125 in; 813 x 616 x 791 mm Maximum: 35.25 x 28.25 x 31.125 in; 896 x 718 x 791 mm	
Product Weight	181 lb 82 kg	
Warranty Features	90 days parts only warranty. Warranty and support options vary by product, country and local legal requirements. Go to http://www.hp.com/support to learn about HP award winning service and support options in your region.	
Control Panel	8.0-in (20.3 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display; illuminated Home button (for quick return to the Home menu); USB High-speed 2.0 port; Hardware Integration Pocket	
Display Description	8.0 in (20.3 cm) touchscreen, XVA Color Graphic Display (CGD)	
Software Included	HP Connected, HP Device Experience (DXP), HP PCL 6 Printer Driver, HP Software Installer/Uninstaller, Mac OS Welcome Screen (Directs users to 123.HP.com or OS App Source for printer software), Online user manuals	
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 WorldType); 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	
Compatible Operating Systems	Android, Linux Boss (5.0), Linux Debian (7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6), Linux Fedora (22, 23, 24), Linux Mint (17, 17.1, 17.2, 17.3, 18), Linux Red Hat Enterprise (6.0, 7.0), Linux SUSE (13.2, 42.1), Linux Ubuntu (12.04, 14.04, 15.10, 16.04, 16.10), OS macOS 10.12 Sierra, OS X 10.10 Yosemite, OS X 10.11 El Capitan, UNIX, Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows 7 all 32- & 64-bit editions, Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows Vista all 32bit editions (Home Basic, Premium, Professional, etc.), Windows XP SP3 32-bit editions (XP Home, XP Pro, etc.)	
Compatible Network Operating Systems	Citrix MetaFrame Presentation Server 3.0, Citrix MetaFrame XP Presentation Server (Feature Release 1, 2, and 3), Citrix on Windows Server 2003/2003R2, Citrix on Windows Server 2008/2008R2/2008 R2 SP1, Citrix on Windows Server 2012/2012R2, Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0 (Plus Feature Pack 2 & 3) for Windows Server 2008 Terminal Services 32- and 64-bit, Citrix XenApp 6.0/6.5 [for Windows Server 2008 R2 Terminal Services, 32- and 64-bit], Citrix XenApp 6.0/6.5/7.5 [for Windows Server 2008 R2 SP1 Terminal Services, 32- and 64-bit], Citrix XenApp 7.5 [for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit], Citrix XenDesktop 5.6 [for Windows Server 2008 R2 Terminal Services, 32- and 64-bit], Citrix XenDesktop 5.6/7.0/7.5 [for Windows Server 2008 R2 SP1 Terminal Services, 32- and 64-bit], Citrix XenDesktop 7.0/7.5 [for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit], Novell NetWare 6.5/SP8 Novell Clients www.novell.com/iprint , Novell iPrint Appliance v1.0, Novell Open Enterprise Server 11/SP1, Novell Open Enterprise Server 2 for Linux, Novell Servers www.novell.com/iprint , Windows Server 2003/2003 R2 32-/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2003/2003 R2 32-bit (SP1/SP2) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 32-/64-bit (SP2) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 R2 64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32-/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2012/2012 R2 64-bit Standard/Foundation/Essentials/Datacenter (+ Cluster & Terminal Services), Windows Server 2016/ 64-bit Standard/ Essential/Datacenter (+ Cluster & Terminal Services)	
Minimum System Requirements	PC: 2GB available hard disk space, OS hardware requirements see microsoft.com ; MAC: 1.3 GB available hard drive space; Internet; OS hardware requirements see apple.com for more info	
Power	Power Supply Type: Internal (Built-in) power supply; Power Requirements: Input voltage: 100 to 240 VAC, 50/60 Hz; Power Consumption: 660 watts (print/copy), 42 watts (ready), 1.6 watts (sleep), 0.2 watts (auto-off), 0.2 watts (off) Typical Electricity Consumption (TEC) number: BA: 1.97 kWh/Week; ES: 2.03 kWh/Week ² ; Blue Angel (Sleep mode): Test 2 (Blue Angel); Blue Angel (Normal mode): Test 3 (Blue Angel) ⁹⁹	
Acoustics	Acoustic Power Emissions: 6.6 B(A)	Acoustic Power Emissions: 6.6 B(A)
Operating Environment	Operating Temperature Range: 15 to 30°C; Recommended Operating Temperature: 17 to 25°C; Storage Temperature Range: Before initial setup (Non-Purged): -40 to 60°C; After initial setup (Purged): 0 to 60°C. If stored below the lowest specified operating temperature, unit must slowly warm up to an approved operating temperature (HP recommends waiting 24 hours at approved operating temperature prior to using the printer).; Non-Operating Humidity Range: 10 to 80% RH; Operating Humidity Range: 10 to 80% RH; Recommended Humidity Operating Range: 30 to 70% RH	
Security Management	Identity Management: Kerberos authentication, LDAP authentication, 1000 user PIN codes, optional HP and third-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, HP Trusted Platform Module (TPM) comes standard; 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, 18 Intrusion Detection with Red Balloon Security Technology (Constant in-device monitoring for attacks), HP Sure Start Secure Boot (BIOS integrity checking with self-healing capability), Whitelisting (loads only known good code (DLLs, EXEs, etc.); Security Management: Compatible with HP JetAdvantage Security Manager; 21 Device Security Syslog Messages processed and accessible in ArcSight and Splunk SIEMs; For more security settings go to http://h10032.www1.hp.com/ctg/Manual/c03602120	

¹ 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 115V device. ² Based on the BA TEC method with the following possible exceptions: 1 minute or less sleep delay setting, Wi-Fi disabled. ³ Average color composite (C/M/Y) and black declared yields based on ISO/IEC 24711 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see <http://www.hp.com/go/learnaboutsupplies>. ⁴ Based on standard ITU-T test image #1 at standard resolution and MMR encoding, the HP fax device can transmit at 3 sec/page for V.34 and 6 sec/page for V.17 ⁵ ISO speeds measured using ISO/IEC 24734. Excludes first page or first set of ISO test pages. For details see <http://www.hp.com/go/printerclaims> ⁶ Exact speed varies depending on the system configuration, software application, driver and document complexity.

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