

HP Color LaserJet Pro MFP M477 Series



A fast-performing, unmatched colour MFP with robust security and innovative toner for more pages.²

Unmatched print, scan, copy, and fax performance plus robust, comprehensive security for how you work. This colour MFP finishes key tasks faster and guards against threats.¹ Original HP Toner cartridges with JetIntelligence produce more pages.²



HP Color LaserJet Pro MFP M477fnw



HP Color LaserJet Pro MFP M477fdw

Speed through more tasks. Keep data protected

- Scan digital files directly to email, USB, network folders, and the cloud with preloaded business apps.³
- Grab pages and go—without waiting around. This MFP wakes up and prints faster than the competition.¹
- Breeze through multipage documents with two-sided printing that's faster than the competition.¹
- Control access to print jobs and help keep printing safe with security features like LDAP authentication.

Easy management. Efficient printing

- Easily manage print jobs directly at the MFP—just tap and swipe the 10.9 cm (4.3-inch) touchscreen.⁵
- Easily print Microsoft® Word and PowerPoint® documents—now directly from your USB drive.⁴
- Easily manage devices and settings using HP Web Jetadmin with a suite of essential management features.⁶
- Print using less energy than competitors—enhanced by Original HP Toner cartridges with JetIntelligence.⁷

More pages, performance, and protection

- Get the most prints for your money—with Original HP High Yield Colour Toner cartridges with JetIntelligence.²
- Count on professional quality at high speeds with HP ColorSphere 3 toner.
- Help ensure you're getting the authentic HP quality you paid for with innovative anti-fraud technology.
- Print right away with preinstalled toner cartridges. Replace them with optional high-yield cartridges.

Stay connected with secure mobile printing options

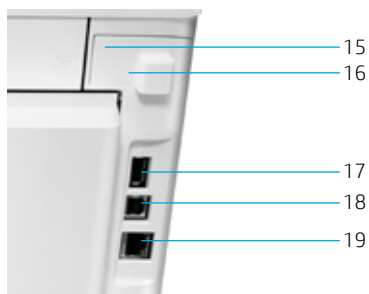
- Easily print from a variety of smartphones and tablets—generally no setup or apps required.⁸
- Count on wireless direct printing in the office—from mobile devices—without accessing the company network.¹⁰
- Help workers print with just a touch of their NFC-enabled mobile device to the printer—no network needed.¹¹
- Easily access, print, and share resources with Ethernet and wireless networking.⁹

¹ Based on HP internal testing of top three leading competitors' first page out from sleep mode and duplex print and copy speed completed 8/2015. Subject to device settings. Actual results may vary. For details see hp.com/go/ljclaims ² Based on cartridge yields for HP 305X compared with HP 410X Original HP LaserJet Toner Cartridges. For more information, see hp.com/go/learnaboutsupplies ³ Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see hpconnected.com ⁴ Microsoft and PowerPoint are U.S. registered trademarks of the Microsoft group of companies. Feature works with Microsoft Word and PowerPoint 2003 and later. Only Latin language fonts are supported. ⁵ Requires a wireless access point and an Internet connection to the printer. Services require registration. App availability varies by country, language, and agreements and requires a firmware upgrade. For details, visit hpconnected.com ⁶ HP Web Jetadmin is free and available for download at hp.com/go/webjetadmin ⁷ Based on HP testing using the ENERGY STAR® program's Typical Electricity Consumption (TEC) method or as reported in energystar.gov of top three leading competitors as of 8/2015. Actual results may vary. For details see hp.com/go/ljclaims ⁸ 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 hp.com/go/mobileprinting ⁹ Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections. ¹⁰ Mobile device needs to be connected directly to the Wi-Fi network of a wireless direct-capable MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. Learn more at hp.com/go/businessmobileprinting ¹¹ Feature is supported by the HP Color LaserJet Pro MFP M477fdw. Requires a compatible NFC-printing-enabled mobile device. For a list of compatible NFC-printing-enabled mobile devices, see hp.com/go/nfcprinting

Product walkaround

- 1 50-sheet automatic document feeder (ADF) with single-pass, two sided scanning
- 2 Flatbed scanner: up to 216 x 297 mm paper
- 3 Intuitive 10.9 cm (4.3inch) colour touchscreen (tilts up)
- 4 Easy-access USB port
- 5 150-sheet output bin
- 6 Built-in wireless direct printing¹ and NFC touch-to-print²
- 7 Front door release button (access to HP JetIntelligence Toner cartridges)
- 8 1200 MHz processor, 512 MB memory
- 9 Automatic two-sided printing³
- 10 50-sheet multipurpose tray 1
- 11 250-sheet input tray 2
- 12 Rear door (provides access to print path)
- 13 Built-in wireless networking⁴
- 14 Convenient front power on/off button
- 15 Telephone "line out" port
- 16 Fax "line in" port
- 17 Host USB port to enable job storage⁸
- 18 Hi-Speed USB 2.0 printing port
- 19 Gigabit Ethernet network port

HP Color LaserJet Pro MFP M477fdw shown



Series at a glance



Model	HP Color LaserJet Pro MFP M477fnw	HP Color LaserJet Pro MFP M477fdw
Product number	CF377A	CF379A
50-sheet multipurpose tray, 250-sheet tray 2	✓	✓
550-sheet tray 3	Optional	Optional
Two-sided printing	Manual	Automatic
Mobile printing	Wireless direct printing, ¹ HP ePrint, ⁵ Apple AirPrint™, ⁶ Mopria-certified, ⁷ Google Cloud Print™ 2.0	Wireless direct printing, ¹ NFC touch-to-print, ² HP ePrint, ⁵ Apple AirPrint, ⁶ Mopria-certified, ⁷ Google Cloud Print 2.0

¹ Mobile device needs to be connected directly to the Wi-Fi network of a wireless direct printing-capable MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. Learn more at hp.com/go/businessmobileprinting ² NFC touch-to-print is supported by the HP Color LaserJet Pro MFP M477fdw model only. Requires a compatible NFC-printing-enabled mobile device. For a list of compatible NFC-printing-enabled mobile devices, see hp.com/go/nfcprinting ³ Automatic two-sided printing is available on the M477fdw model only. ⁴ Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections. ⁵ Printer requires ePrint account registration. App or software may be required. Wireless operations are compatible with 2.4 GHz operations only. Learn more at hp.com/go/mobileprinting ⁶ Supports the following devices running iOS 4.2 or later: iPad, iPad 2, iPhone (3GS or later), iPod touch (3rd generation or later). Works with HP's AirPrint-enabled printers and requires the printer be connected to the same network as your iOS device. Wireless performance is dependent on physical environment and distance from the access point. ⁷ Mopria-certified HP printer and mobile device must be connected to the same wireless network or have a direct wireless connection. Performance is dependent on physical environment and distance from the wireless access point. Wireless operations are compatible with 2.4 GHz routers only.

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. Choose from:

Optimized Care (optimum performance and stability): 4 hour Onsite Support, Maintenance Kit Replacement Service, Installation with Network Configuration Service

Standard Care (high level of uptime): Next Business Day Onsite Support, Maintenance Kit Replacement Service, Installation with Network Configuration Service

Basic Care (minimum recommended support): Next Business Day Onsite Support

4 hr Onsite Support: Onsite support within four hours after a service call received within the coverage window

Next Business Day Onsite Support: Onsite service the next business day after the service call is received

Maintenance Kit Replacement Service: Onsite replacement of your printer's maintenance kit including parts, materials, and labor

Installation with Network Configuration Service: Assembly, network configuration, and basic administrator familiarization

For more information about HP Care Pack, HP Contractual, or HP Managed Print Services, visit hp.com/go/printservices



Windows 8



Top Features

Shift your office into high gear with a colour MFP that doesn't keep you waiting. Print your first page and two-sided prints faster than the competition, and scan quickly.¹ Help keep your device, data, and documents safe—from boot up to shutdown.

Easily produce the documents you need to keep work flowing while conserving power. This energy-efficient MFP is easy to manage and use. Print Microsoft® Word and PowerPoint® documents directly from the USB port,³ using the large touchscreen.⁴

Print more professional-quality colour pages than ever before.² Specially designed Original HP Toner cartridges with JetIntelligence deliver better performance, higher energy efficiency, and authentic HP quality—which the competition can't match.²

Keep business nimble when needs shift or opportunity strikes—in the office or on the go.⁵ Print wirelessly with or without accessing the network,^{6,7} and stay connected with Ethernet capabilities. Print with a touch from mobile devices.^{5,8}

Product

CF377A	HP Color LaserJet Pro MFP M477fnw
CF379A	HP Color LaserJet Pro MFP M477fdw

Accessories

CF404A	HP LaserJet 550-sheet Paper Feeder
P0R81AA	HP v222w 16GB Mini USB Drive

Supplies⁹

CF410A	HP 410A Black LaserJet Toner Cartridge (~2,300 pages)
CF410X	HP 410X Black LaserJet Toner Cartridge (~6,500 pages)
CF411A	HP 410A Cyan LaserJet Toner Cartridge (~2,300 pages)
CF411X	HP 410X Cyan LaserJet Toner Cartridge (~5,000 pages)
CF412A	HP 410A Yellow LaserJet Toner Cartridge (~2,300 pages)
CF412X	HP 410X Yellow LaserJet Toner Cartridge (~5,000 pages)
CF413A	HP 410A Magenta LaserJet Toner Cartridge (~2,300 pages)
CF413X	HP 410X Magenta LaserJet Toner Cartridge (~5,000 pages)

HP Care Packs

U8TP0E	HP 3-year Next Business Day Color LaserJet M477 MFP Hardware Support
U8TP1E	HP 4-year Next Business Day Color LaserJet M477 MFP Hardware Support
U8TP2E	HP 5-year Next Business Day Color LaserJet M477 MFP Hardware Support
U8TP3E	HP 3-year 4hr 9x5 Color LaserJet M477 MFP Hardware Support
U8TP4E	HP 3-year 4hr 13x5 Color LaserJet M477 MFP Hardware Support
U8TP7PE	HP 1-year Post Warranty Next Business Day Color LaserJet M477 MFP Hardware Support
U8TP8PE	HP 1-year Post Warranty 4h 9x5 Color LaserJet M477 MFP Hardware Support
U8TP9PE	HP 1-year Post Warranty 4h 13x5 Color LaserJet M477 MFP Hardware Support

Protect your investment with HP Care Pack. Let HP certified engineers resolve your technical issues. For more details on HP Care Pack, go to hp.com/go/cpc

Paper

Contact HP via phone: Asia: 65 6253 8500

Solutions

HP Web Jetadmin: hp.com/go/wja

HP Universal Print Driver: hp.com/go/upd

HP Imaging and Printing Security Center: hp.com/go/ipsc

¹ Based on HP internal testing of top three leading competitors' first page out from sleep mode and duplex print and copy speed completed 8/2015. Subject to device settings. Actual results may vary. For details see hp.com/go/Ljclaims ² Based on cartridge yields for HP 305X compared with HP 410X Original HP LaserJet Toner Cartridges. For more information, see hp.com/go/learnaboutsupplies ³ Microsoft and PowerPoint are U.S. registered trademarks of the Microsoft group of companies. Feature works with Microsoft Word and PowerPoint 2003 and later. Only Latin language fonts are supported. ⁴ Requires a wireless access point and an Internet connection to the printer. Services require registration. App availability varies by country, language, and agreements and requires a firmware upgrade. For details, visit hpconnected.com ⁵ 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 hp.com/go/mobileprinting ⁶ Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections. ⁷ Mobile device needs to be connected directly to the Wi-Fi network of a wireless direct-capable MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. Learn more at hp.com/go/businessmobileprinting ⁸ Feature is supported by the HP Color LaserJet Pro MFP M477fdw. Requires a compatible NFC-printing-enabled mobile device. For a list of compatible NFC-printing-enabled mobile devices, see hp.com/go/nfcprinting ⁹ Printer ships with preinstalled introductory cartridges Cyan, Magenta and Yellow (CMY) (~1,200 pages) and Black A (KA) (~2,300 pages) with Auto Toner Seal Removal for all cartridges.

HP Color LaserJet Pro MFP M477 Series

Technical specifications	HP Color LaserJet Pro MFP M477fww (CF377A)	HP Color LaserJet Pro MFP M477fdw (CF379A)
Functions	Print, copy, scan, fax, email	
Print		
Duplex print options	Manual (driver support provided)	Automatic (standard)
Print speed ¹	Black (normal, A4): Up to 27 ppm; Black (normal, letter): Up to 28 ppm; Colour (normal, A4): Up to 27 ppm; Colour (normal, letter): Up to 28 ppm; Black (Landscape, A5): Up to 49 ppm; Colour (Landscape, A5): Up to 49 ppm; Black Duplex (A4): Up to 24 ppm; Black Duplex (letter): Up to 25 ppm; Colour Duplex (A4): Up to 24 ppm; Colour Duplex (letter): Up to 25 ppm	
First page out ²	Black (A4, ready): As fast as 9.0 sec; Colour (A4, ready): As fast as 9.9 sec; Black (A4, sleep): As fast as 11.4 sec; Colour (A4, sleep): As fast as 11.5 sec	
Print technology	Laser	
Print resolution	Black (best): 600 x 600 dpi, Up to 38,400 x 600 enhanced dpi; Colour (best): 600 x 600 dpi, Up to 38,400 x 600 enhanced dpi; Black (normal): 600 x 600 dpi, Up to 38,400 x 600 enhanced dpi; Colour (normal): 600 x 600 dpi, Up to 38,400 x 600 enhanced dpi	
Print resolution technologies	HP ImageREt 3600, PANTONE® calibrated	
Print cartridges number	4 (1 each black, cyan, magenta, yellow)	
Standard print languages	HP PCL 6, HP PCL 5c, HP postscript level 3 emulation, PCLm, PDF, URF, Native Office	
Printer management	Printer Administrator Resource Kit (Driver Configuration Utility, Driver Deployment Utility, Managed Printing Administrator); HP Web JetAdmin Software; HP Proxy Agent Software; HP Imaging and Printing Security enter; HP Utility (Mac); HP Device Toolbox (Win 7)	
Printer smart software features	N-up printing, collation, HP ePrint, Apple AirPrint™, Mopria certified, Google Cloud Print, Wireless Direct Printing, HP Auto-On/Off Technology, Intuitive 4.3" touchscreen control panel, Print from Cloud using business apps on the control panel, HP JetAdvantage Private Print, Job Storage with PIN printing, Print from USB	
Scan		
Scan type/technology	Type: Flatbed, ADF; Technology: Contact Image Sensor (CIS)	
Scan speed ³	Normal, A4: Up to 26 ppm/47 ipm (b&w), up to 21 ppm/30 ipm (colour)	
Scan resolution	Enhanced: Up to 1200 x 1200 dpi; Hardware: Up to 1200 x 1200 dpi; Optical: Up to 1200 x 1200 dpi	
Scan size	ADF: 216 x 356 mm (8.5 x 14 in); Flatbed: 216 x 297 mm (8.5 x 11.7 in)	
Scan file format	Windows: PDF, searchable PDF, JPG, RTF, TXT, BMP, PNG, TIFF; Mac: PDF, searchable PDF, JPG, RTF, TXT, JPG-2000, PNG, TIF	
Scan input modes	Front-panel scan, copy, email, fax, or file buttons; HP Scan software; and user application via TWAIN or WIA	
Scanner advanced features	Scan-to-E-mail; Scan-to-cloud; Scan-to-USB; Scan-to-network folder; LDAP e-mail lookup; Single-pass 2-sided scanning ADF	
Copy		
Copy speed ⁴	Black (normal, A4): Up to 27 ppm; Black (normal, letter): Up to 28 ppm; Colour (normal, A4): Up to 27 ppm; Colour (normal, letter): Up to 28 ppm; Black Duplex (A4): Up to 24 ppm; Black Duplex (letter): Up to 25 ppm; Colour Duplex (A4): Up to 24 ppm; Colour Duplex (letter): Up to 25 ppm	
First copy out	Black (A4): As fast as 9.8 sec; Colour (A4): As fast as 9.5 sec; Black (A4, sleep): As fast as 12.5 sec; Colour (A4, sleep): As fast as 16.6 sec	
Copy resolution	Black (text & graphics): Up to 600 x 600 dpi; Colour (text & graphics): Up to 600 x 600 dpi	
Max no. of copies	Up to 99 copies	
Copier resize	25 to 400%	
Copier settings	Number of copies; Reduce/Enlarge; Lighter/Darker; Optimize; Paper; Multi-page copy; Collation; Tray Select; Two-Sided; Draft Mode; Image Adjustment; Set as New Defaults; Restore Defaults	
Fax		
Fax speed ⁵	33.6 kbps; 3 sec per page (letter)	
Fax resolution	Black (best): Up to 300 x 300 dpi; Black (standard): 203 x 96 dpi; Black & White (fine): 203 x 192 dpi; Black & White (superfine): 300 x 300 dpi; Black Photo Grayscale: 300 x 300 dpi (halftone)	
Fax features	Auto fax reduction supported: Yes; Auto-Redialing: Yes; Fax delayed sending: Yes; Distinctive ring detection supported: Yes; Junk barrier supported: Yes; CISD matching only: (Caller ID not supported); Maximum speed dialing numbers: Up to 120 numbers; PC interface supported: Yes (send only); Fax polling supported: Yes (receive only)	
Fax smart software features	Permanent fax memory backup; Auto fax reduction; Auto redialing; Delayed sending; Fax forwarding; TAM receiving; Polling; Junk barrier; Distinctive ring detection; Cover page wizard; Block fax; Billing codes; Save and load; Poll receive; Fax activity reports; Dial prefix setting; Print fax log	
Connectivity		
Standard connectivity	Hi-Speed USB 2.0 port; built-in Gigabit Ethernet 10/100/1000 Base-TX network port; Easy-access USB	
Mobile printing capability ⁶	HP ePrint, Apple AirPrint™, Wireless Direct Printing, Mopria-certified, Google Cloud Print 2.0, Mobile Apps	HP ePrint, Apple AirPrint™, Wireless Direct Printing, NFC touch-to-print, Mopria-certified, Google Cloud Print 2.0, Mobile Apps
Network ready	Standard (built-in Gigabit Ethernet, Wi-Fi) [Operates as both an AP (with Wi-Fi Direct) and STA]	
Network capabilities	Via built-in 10/100/1000Base-TX Ethernet, Gigabit; Auto-crossover Ethernet; authentication via 802.1X	
Wireless capability	Built-in Wi-Fi; Authentication via WEP, WPA/WPA2, WPA Enterprise; Encryption via AES or TKIP; WPS; Wireless Direct Printing	Built-in Wi-Fi; Authentication via WEP, WPA/WPA2, WPA Enterprise; Encryption via AES or TKIP; WPS; Wireless Direct Printing; NFC touch-to-Print
Memory		
Duty cycle ⁷	Standard/Maximum: 256 MB DRAM Up to 50,000 pages; Recommended monthly page volume: 750 to 4,000 pages	
Processor speed	1200 MHz	
Paper handling		
Input	50-sheet multipurpose tray, 250-sheet input tray, 50-sheet Automatic Document Feeder (ADF); Optional: 550-sheet tray	
Output	150-sheet output bin	
Media type	Paper (bond, brochure, coloured, glossy, letterhead, photo, plain, preprinted, prepunched, recycled, rough), postcards, labels, envelopes	
Media weight	Tray 1: 60 to 176 g/m ² (up to 200 g/m ² with postcards and HP Color laser glossy photo papers); Tray 2: 60 to 163 g/m ² (up to 176 g/m ² with postcards, up to 200 g/m ² HP Color laser glossy photo papers); Optional Tray 3: 60 to 163 g/m ² (up to 176 g/m ² with postcards, up to 150 g/m ² Glossy media); Automatic duplexer: 60 to 163 g/m ²	
Media sizes custom	Tray 1: 76 x 127 to 216 x 356 mm; Tray 2, optional Tray 3: 100 x 148 to 216 x 356 mm	
Dimensions (W x D x H)⁸	416 x 461 x 400 mm (16.4 x 18.1 x 15.7 in)	
Weight	21.8 kg (48.1 lb)	23.2 kg (51.2 lb)
What's in the box	HP Color LaserJet Pro MFP M477fww, 4 preinstalled HP LaserJet Toner cartridges (Black: ~2,300 pages, Introductory Cyan, Magenta, Yellow: ~1,200 pages each cartridge); In-box documentation (Getting Started Guide, Install Poster), warranty card (China, Mexico); Software drivers and documentation on CD-ROM; Power cord; USB cable	HP Color LaserJet Pro MFP M477fdw, 4 preinstalled HP LaserJet Toner cartridges (Black: ~2,300 pages, Introductory Cyan, Magenta, Yellow: ~1,200 pages each cartridge); In-box documentation (Getting Started Guide, Install Poster), warranty card (China, Mexico); Software drivers and documentation on CD-ROM; Power cord; USB cable
Warranty features	One-year limited hardware warranty	
Systems		
Compatible operating systems	Windows OS compatible with In-Box Driver; Windows XP SP3 all 32-bit editions (XP Home, XP Pro, etc.); Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc.); Windows 7 all 32- & 64-bit editions; Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets); Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets); Windows OS compatible with Universal Print Driver (From HP.com); Windows XP SP3 32- & 64-bit editions (XP Home, XP Pro, etc.); Windows Vista all 32- & 64-bit editions (Home Basic, Premium, Professional, etc.); Windows 7 all 32- & 64-bit editions; Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets); Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets); Mac OS (HP Print Drivers available from HP.com and Apple Store); OS X 10.7 Lion; OS X 10.8 Mountain Lion; OS X 10.9 Mavericks; OS X 10.10 Yosemite; Mobile OS (In-OS drivers); OS, Android, Windows 8/8.1/10 RT; Linux OS (In-OS HPLIP; SUSE Linux (12.2, 12.3, 13.1); Fedora (17, 18, 19, 20); Linux Mint (13, 14, 15, 16, 17); Boss (3.0, 5.0); Ubuntu (10.04, 11.10, 12.04, 12.10, 13.04, 13.10, 14.04, 14.10); Debian (6.0.x, 7.x); Other OS; UNIX	
Minimum system requirements	PC: Windows XP (SP2) (32-bit) or newer, 233 MHz processor or higher, 512 MB RAM, 400 MB HD space, CD-ROM or Internet, USB or Network connection; Mac: OS X 10.7 or newer; Internet; USB or Network connection; 1 GB HD space	
Fonts and typefaces	84 scalable TrueType fonts	
Control panel	10.9 cm (4.3-in) intuitive colour touchscreen (CGD); 3 Buttons (Home, Help, Back)	
Power	Power supply type: Internal (Built-in) power supply; Power supply required: 110-volt input voltage: 110 to 127 VAC (+/- 10%), 60 Hz (+/- 3 Hz); 220-volt input voltage: 220 to 240 VAC (+/- 10%), 50 Hz (+/- 3 Hz) (Not dual voltage, power supply varies by part number with # Option code identifier); Power consumption: 570 watts (Active Printing), 18.6 watts (Ready), 2.5 watts (Sleep), 0.6 watts (Auto-On/Off via USB connectivity), 0.05 watts (Shutdown or Off)	
Software included	For Windows OS: HP Software Installer/Uninstaller, HP PCL 6 Printer Driver, HP Device Experience (DXP), HP Send Fax, HP Device Toolbox, HP Fax Print Driver, HP Fax Setup Wizard, HP Product Improvement Study, HP Scan App and Drivers, Scan to e-mail setup Wizard, Scan to Folder Setup Wizard, HP Update, Product Registration Assist, HP Web Services Assist (HP Connected), Online user manuals, (*software varies by OS: WinXP/Vista = driver only; Win 7 = full solution; Win 8+ and newer = drivers only with more apps available in MS App store) For Mac OS, Welcome Screen, (Directs users to HP.com or OS App Source for LaserJet Software)	
Acoustic	Acoustic power emissions (ready): 4.5 B(A); Acoustic pressure emissions bystander (active, printing): 49 dB(A); Acoustic pressure emissions bystander (ready): 32 dB(A)	
Environmental ranges	Operating temperature range: 15 to 30° C (59 to 86° F); Recommended operating temperature: 15 to 27° C (59 to 80.6° F); Non-operating humidity range: 10 to 95% RH (non-condensing); Operating humidity range: 10 to 80% RH (non-condensing); Recommended operating humidity range: 20 to 70% RH (non-condensing)	
Security management	Embedded Web Server: password-protection, secure browsing via SSL/TLS; Network: enable/disable network ports and features, SNMPv1 & SNMPv2 community password change; HP ePrint: HTTPS with certificate validation, HTTP Basic Access Authentication, SASL authentication; LDAP authentication and authorization; Firewall and ACL; SNMPv3, 802.1X, Secure Boot, authentication via WEP, WPA/WPA2 Personal, WPA2 Enterprise; encryption via AES or TKIP	Embedded Web Server: password-protection, secure browsing via SSL/TLS; Network: enable/disable network ports and features, SNMPv1 & SNMPv2 community password change; HP ePrint: HTTPS with certificate validation, HTTP Basic Access Authentication, SASL authentication; LDAP authentication and authorization; Firewall and ACL; SNMPv3, 802.1X, Secure Boot
Safety approvals and requirements	IEC 60950-1:2005 +A1:2009 +A2:2013; EN 60950-1:2006 +A1:2009 +A1:2010 +A1:2011 +A2:2013; EN 62479:2010/IEC 62479:2010; CAN/CSA C22.2 No. 60950-1-07 2nd Ed. 2011-12; Compliance of IEC 60950-1 standard considers all country deviations according to the most recent IEC/CE Bulletin; UL/ULC Listed and ULC CoC (US/Canada); GS Certificate (Germany, Europe); Low Voltage Directive 2006/95/EC with CE Mark (Europe); Compliance with Laser safety standards: EN 60825-1:2007 / IEC 60825-1:2007 (Class 1 Laser Product); Compliance with Laser safety standards 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser notice No. 50, Dated June 24, 2007, FDA 21 CFR subchapter J part 1010 and 1040 (FDA Accession Number via test/reporting to CDHR Facility ID, location and inspections are part of the certification process and record)	
Supported network protocols	TCP/IP, IPv4, IPv6; Print: TCP/IP port 9100 Direct Mode, LPR (raw queue support only), Web Services Printing, HP ePrint, Apple AirPrint™, Google Cloud Print 2.0, Mopria, FTP Print, IPP Print; Discovery: SLP, Bonjour; Web Services Discovery; IP Config; IPv4 (Boot) DHCP; AutoIP Manual; IPv6 (Stateless Link-Local and via Router; Stateless via DHCPv6); SSL; Security and Certificate management; Management: SNMPv1, SNMPv3, HTTP/HTTPS, Syslog, FTP FW Download	

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 input voltage, system configuration, software application, driver, and document complexity. ³ Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. ⁴ First Copy Out and Copy Speed measured using ISO/IEC 29183, 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. ⁵ 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. ⁶ 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> ⁷ 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. ⁸ 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. ⁹ Based on HP internal testing of top three leading competitors' first page out from sleep mode and duplex print and copy speed completed 8/2015. Subject to device settings. Actual results may vary. For details, see <http://www.hp.com/go/claims> ¹⁰ Power requirements are based on the country/region where the printer is sold. Do not connect operating voltages. This will damage the printer and void the product warranty. ¹¹ Configuration tested: base model, simplex printing, A4 paper at an average of 43 ppm.

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