



HP Color LaserJet Enterprise MFP M681dh

This HP Color LaserJet MFP merges performance, energy efficiency, and the deepest security.¹

This HP Color LaserJet MFP with JetIntelligence combines exceptional performance and energy efficiency with professional-quality documents right when you need them—all while protecting your network with the industry's deepest security.¹



The world's most secure printing¹

- With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.
- Run-time intrusion detection continually monitors to detect and stop attacks, then automatically reboots.
- Centralize control of your printing environment with HP Web Jetadmin—and help build business efficiency.⁸
- Give workgroups what they need to succeed. Easily choose and deploy over 180 HP and third-party solutions.

High speed performance meets energy efficiency

- Scanning is now faster than ever; duplex scan speeds up to 120 ipm. Scan to SharePoint and more.
- This MFP wakes up fast and prints your first page faster—in as quickly as 8.9 seconds.⁷
- This MFP uses exceptionally low amounts of energy thanks to its innovative design and toner technology.⁹
- Paper handling options include a wheeled stand and 550-sheet input feeder for paper sizes 4 x 6" to legal.

More Pages, Performance, and Protection⁴

- ColorSphere3 toner formulation, combined with an automatic media sensor, help provide leading print quality.
- Original HP Toner cartridges with JetIntelligence supply 39% more pages per color cartridge vs predecessor.⁴
- Help retain the Original HP quality you paid for with anti-fraud and cartridge authentication technology.
- Spend less time replacing toner, and more on business. Choose high-yield toner cartridges.⁵



Mac



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 hp.com/go/PrintersThatProtect. For more information: hp.com/go/printersecurityclaims. ² Some features require additional purchase. A FutureSmart service pack update may be required to activate security features. Learn more at hp.com/go/printsecurity. ³ 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. ⁴ More pages versus predecessor cartridges claim based on page-yield comparison of HP 653X High Yield Color Original LaserJet Toner Cartridges with HP 657X High Yield Color Original LaserJet Toner Cartridges. For more information, see hp.com/go/learnaboutsupplies. ⁵ HP 657X High Yield Original LaserJet Toner Cartridges not included; please purchase separately. ⁶ Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. ⁷ Measured after 15 min in sleep. Exact speed varies depending on the system configuration, software application, driver, document complexity and time in sleep. ⁸ HP Web Jetadmin is available for download at no additional charge at hp.com/go/webjetadmin. ⁹ Energy claim based on TEC data reported on energystar.gov as of January 2017. Data normalized to determine energy efficiency of in-class laser printers with published speed of 50 to 60 ppm. Subject to device settings. Actual results may vary. ¹⁰ An FCC Class A emissions compliant device meets the less stringent (higher) levels of emissions allowed by the FCC for a product operation in a commercial environment. An FCC class A device cannot be marketed for use in a residential environment and an FCC class A device should not be purchased for use in a residential environment due to the increased risk of interference to radio communications.

Technical specifications

Functions / Multitasking supported	Print, copy, scan / Yes
Print speed ¹ 11, 13, 14 12	First page out A4: As fast as 6.5 sec Black; As fast as 6.5 sec Color; First page out Letter: As fast as 6.4 sec Black; As fast as 6.4 sec Color; A4: Up to 47 ppm Black; Up to 47 ppm Color; Letter: Up to 50 ppm Black; Up to 50 ppm Color; Print speed (Landscape, A5): Up to 74 ppm Black; Up to 74 ppm Color
2-sided printing	A4: Up to 47 ppm Black; Up to 47 ppm Color; Letter: Up to 50 ppm Black; Up to 50 ppm Color
Print resolution	Black (best): Up to 1200 x 1200 dpi; Black (normal): Up to 600 x 600 dpi; Black (fine lines): Up to 1200 x 1200 dpi; Color (best): Up to 1200 x 1200 dpi; Color (normal): Up to 600 x 600 dpi; Color (fine lines): Up to 1200 x 1200 dpi
Print technology	Laser : Print resolution technology: HP ImageRet 3600; 600 x 600 dpi; HP ProRes 1200 (1200 x 1200 dpi); 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, native PDF printing (v 1.7), URF (AirPrint)
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
Scan	
Scan speed ¹⁸	Up to 69 ppm (b&w), up to 69 ppm (color); 2-sided: Up to 111 ipm (b&w), up to 111 ipm (color)
Scan type / Technology ¹⁸	Flatbed, ADF / Charge Coupled Device (CCD)
Scan resolution	Hardware: Up to 600 x 600 dpi; Optical: Up to 600 dpi
Scan file format	Digital Send: PDF, Hi-Compression PDF, JPEG, TIFF, MTIFF, XPS, PDF/A; Scan to easy access USB: PDF, JPEG, TIFF, MTIFF, XPS, PDF/A; Print from easy access USB: PDF, PS, Print Ready files (.lprn, .pcl, .chd)
Scan input modes	Front panel applications: Copy; E-mail; Save to Network Folder; Save to USB; Save to Device Memory; Save to SharePoint; Open Extensibility Platform (OXP) applications; HP Scan or user application via TWIN
Scan Size	ADF: 215.9 x 863.6 mm Maximum; 68 x 147 mm Minimum; Flatbed: 216 x 356 mm
Scanner advanced features	Optimize text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect color; Edge Erase; Job notification; Blank page suppression; HP Quick Sets
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 SharePoint; Send to FTP; 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	
Copy resolution	Black (text and graphics): Up to 600 x 600 dpi; Up to 600 x 600 dpi Color (text and graphics): Up to 600 x 600 dpi
Maximum number of copies	Up to 9999
Copier settings	Two-sided copying, scalability, image adjustments (darkness, contrast, background cleanup, sharpness), N-up, N or Z-ordering, content orientation, collation, booklet, job build, edge-to-edge, job storage, ID Copy, Book Copy, A-to-B Copy (different media sizes)
Connectivity	
Standard connectivity	1 Hi-Speed Device USB 2.0; 2 Host USB (1 walk-up and 1 external accessible); 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket
Network capabilities	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).
Wireless capability	Optional, enabled with purchase of HP Jetdirect 2900nw Print Server J8031A or HP Jetdirect 3000w NFC/Wireless Accessory J8030A
Mobile printing capability	HP ePrint; Apple AirPrint™; Mopria™-certified; Google Cloud Print 2.0
Memory	Standard: 1.5 GB (printer); 512 MB (scanner); Maximum: 4 GB
Processor speed	1.2 GHz / Storage ¹⁰ : 500 GB hard disk drive / Hard disk: Standard, minimum 500 GB HP High-Performance Secure Hard Disk (AES 256 hardware encryption or greater)
Duty cycle (monthly)	A4: Up to 100,000 pages; Letter: Up to 100,000 pages; Recommended monthly page volume : 2000 to 14,000
Recommended monthly page volume	2000 to 14,000
Paper handling	Input Capacities: Up to 650 sheets Standard; MP Tray: Up to 10 envelopes (or 10mm stack height) Output Capacities: Up to 500 sheets Standard Up to 200 sheets Duplex Options: Automatic (standard) Envelope feeder: No Standard paper trays: 2

Media types supported	Paper (plain, light, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy), color transparency, labels, letterhead, envelope, preprinted, prepunched, colored, rough, opaque film, user-defined
Media weight supported	42.3 kg; 93.2 lb
Media sizes supported	Tray 1: A4, A5, A6, RA4, B5, B6, 16k, 10 x 15 cm, Oficio, postcards (JIS single and double) envelopes (DL, C5, B5, C6); Tray 2: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard; Optional 550-sheet trays 3, 4, 5: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard; Optional 2,000-sheet high-capacity Tray 4: A4
Media Sizes Custom	Tray 1: 76 x 127 to 216 x 356 mm; Tray 2: 101.6 x 148 to 216 x 356 mm; Optional 550-sheet trays: 101.6 x 148 to 216 x 356 mm; Optional 2,000-sheet high-capacity tray: custom sizes not supported in this tray
What's in the box	J8A10A HP Color LaserJet Multifunction Printer; HP Black Original LaserJet Toner Cartridge (~12,500 yield), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (~10,500 yield each) (toner cartridges installed); CD with software drivers and documentation; Documentation (Hardware Install Guide); Power cord
Replacement cartridges ⁸	HP 655A Black Original LaserJet Toner Cartridge (~12,500 yield) CF450A; HP 657X High Yield Black Original LaserJet Toner Cartridge (~28,000 yield) CF470X; HP 655A Cyan Original LaserJet Toner Cartridge (~10,500 yield) CF451A; HP 657X High Yield Cyan Original LaserJet Toner Cartridge (~23,000 yield) CF471X; HP 655A Yellow Original LaserJet Toner Cartridge (~10,500 yield) CF452A; HP 657X High Yield Yellow Original LaserJet Toner Cartridge (~23,000 yield) CF472X; HP 655A Magenta Original LaserJet Toner Cartridge (~10,500 yield) CF453A; HP 657X High Yield Magenta Original LaserJet Toner Cartridge (~23,000 yield) CF473X
Product dimensions	W x d x h: 510 x 555 x 658 mm; Maximum: 963 x 770 x 910 mm
Product weight ⁴	42.3 kg
Warranty features	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to http://hp.com/support to learn about HP award winning service and support options in your region.
Energy star certified	Yes
Energy efficiency compliance	ENERGY STAR® qualified; CECP; EPEAT® Silver
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)
Display description	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)
Software included	HP Connected, HP Device Experience (DXP), HP PCL 6 (XPS) 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
Compatible operating systems	Go to hp.com/search for HP Color LaserJet Enterprise M681dh Multifunction Printer for all operating Systems
Compatible network operating systems	Go to hp.com/search for HP Color LaserJet Enterprise M681dh Multifunction Printer for all operating Systems
Minimum system requirements	PC: 2 GB 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 ⁵ ,	Power supply type: Built in 115V or 220 V Power Supply (not dual voltage, power supply varies by part number with option code identifier); Power requirements: Input voltage: 100V to 127V nominal (+/-10%), 50 - 60Hz nominal (+/- 3Hz), 12 A; Input voltage: 220 V to 240V nominal, (+/-10%) 50 - 60Hz nominal (+/- 3Hz), 6 A; Power consumption: 900 watts (printing/copying), 47 watts (ready), 0.9 watts (sleep), 0.9 watts (Auto Off/Manual On), 0.1 (Manual Off)
Acoustics	Acoustic power emissions: 6.6 B(A)
Operating environment	Operating temperature range: 15 to 30°C; Recommended operating temperature: 17.5 to 25°C; Storage temperature range: -20 to 40°C; Non-operating humidity range: 10 to 90% RH; Operating humidity range: 10 to 80% RH; Recommended humidity operating range: 30 to 70% RH
Accessories	2NR12A HP Removable Hard Disk Enclosure; 2NR09A HP 2GB 144-Pin DDR3 TAA Version DIMM; ESK48A HP 1 GB x32 144-pin (800 MHz)DDR3 SODIMM; ESK49A HP 2 GB x32 144-pin (800 MHz) DDR3 SODIMM; 5EL03A HP TAA Version Secure Hard Disk Drive; BSL29A HP High-Performance Secure Hard Disk; 3JN69A HP Jetdirect 3100w BLE/NFC/Wireless Accessory; J8030A HP Jetdirect 3000w NFC/Wireless Accessory; J8031A HP Jetdirect 2900nw Print Server; ZEH31A HP MFP Analog Fax Accessory 700; J8J95A HP 300 ADF Roller Replacement Kit; P1B09A HP Color LaserJet 550-sheet Media Tray; P1B10A HP Color LaserJet 550-sheet Paper Tray with Stand; P1B11A HP Color LaserJet 3x550-sheet Feeder and Stand; P1B12A HP Color LaserJet 1x550/2000-sheet HCL Feeder and Stand; BSL28A HP Internal USB Ports; 2MU47A HP Accessibility Assistant; 2TD64A HP Accessibility Kit; BSL31A HP Foreign Interface Harness; F5S62A HP Trusted Platform Module Accessory; CC543B HP SmartCard NIPRNet Solution for US Government
HP Service and Support options	U9NP3E - HP 3 year NBD Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x; U9NP6E - HP 3 year 4 hour 9x5 Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x; U9NX1PE - HP 1 year Post Wty NBD Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x; U9NX3PE - HP 1 year Post Warranty 4 hour 9x5 Service w/DMR for Color LaserJet Enterprise MFP M68x

Learn more at hp.com

¹ EPEAT® registered where applicable. EPEAT registration varies by country. See <http://www.epeat.net> for registration status by country. ² Cartridges included; yields 10,500 color (C/Y/M) and 12,500 black pages. Pages based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see <http://www.hp.com/go/learnaboutsupplies>. Pages may vary based on customer printing conditions and usage. ³ With print cartridges ⁴ With print cartridges ⁵ 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 115V device. ⁶ 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. ⁷ Based on the BA TEC method with the following possible exceptions: 1 minute or less sleep delay setting, Wi-Fi disabled. ⁸ Average color composite (C/M/Y) and black declared yields based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see <http://www.hp.com/go/learnaboutsupplies> ⁹ Declared yield value in accordance with ISO/IEC 19752. Actual yields vary considerably based on images printed and other factors. For more information, visit <http://www.hp.com/go/learnaboutsupplies> ¹⁰ High-Performance Secure Hard Disk (AES 256 hardware encryption or greater); Secure erase capabilities (Secure File Erase-Temporary Job Files, Secure Erase-Job Data, Secure ATA Erase-Disk) ¹¹ Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims> ¹² Measured using ISO 24734 Feature Test, A5 Landscape Feed. Speed may vary based on content, PC, media orientation, and media type. ¹³ 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, document complexity and time in sleep. ¹⁴ Measured after 15 min in sleep. Exact speed varies depending on the system configuration, software application, driver, document complexity and time in sleep. ¹⁵ First Copy Out from Ready and Simplex Copy Speed measured using ISO/IEC 29183, Duplex Copy Speed measured using ISO/IEC 24735, 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 and document complexity. ¹⁶ First Copy Out from Ready 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. ¹⁷ Measured after 15 min in sleep from Device Wake to Page In Bin. Exact speed varies depending on the system configuration, software application, document complexity and time in sleep. ¹⁸ Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. ¹⁹ Scan software not included in box. HP Scan and TWIN driver available for download at <http://hp.com/support>

