HP Color LaserJet Pro M454nw (W1Y43A)

Active as of 1/06/2019

Overview

Winning in business means working smarter. The HP Color LaserJet Pro M454 printer is designed to let you focus your time where it's most effective-helping to grow your business and staying ahead of the competition.

Dynamic security enabled printer. Only intended to be used with cartridges using an HP original chip. Cartridges using a non-HP chip may not work, and those that work today may not work in the future.
http://www.hp.com/go/learnaboutsupplies

Built to keep you—and your business—moving forward.

Grab pages and go—without waiting. This device wakes up and prints first page out fast. [1]

Print wirelessly with or without accessing the network with dual band Wi-Fi and Wi-Fi direct. [2,3,4]

Best -in-class security [6]

A suite of embedded security features help protect your printer from being an entry point for attacks. [6]

Help secure confidential information with optional PIN/Pull printing to retrieve print jobs. [7]

Optional HP JetAdvantage Security Manager lets you set configuration policies and validate settings. [8]

Simply designed to uncomplicate your day

Set up this printer fast and easily manage device settings to help increase overall printing efficiency.

Make the most of your office space with a printer that conveniently fits into your work style.

Work without delays or messes, with cartridges featuring auto seal removal.

Sustainability is smart business

Avoid frustrating reprints, wasted supplies, and service calls using Original HP toner cartridges.

Saves up to 11% energy over prior products. [10]

Replaces

Status	Product Name	SKU
Pending discontinuance	HP Color LaserJet Pro M452nw	CF388A

Specifications

Functions
Print

Print speed black (ISO, A4)
Up to 27 ppm [12]

Print Speed Color (ISO)
Up to 27 ppm [12]

Print speed duplex (A4)
Up to 24 ipm

Print speed duplex (A4)
Up to 24 ipm

First page out black (A4, ready)
As fast as 9.5 sec

First page out color (A4, ready)
As fast as 11.1 sec

Duty cycle (monthly, A4)
Up to 50,000 pages [9]

(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.)

Recommended monthly page volume
750 to 4000 [10]

Number of users
3-10 Users

Print technology
Laser

Print quality black (best)
600 x 600 dpi, Up to 38, 400 x 600 enhanced dpi

Print quality color (best)
600 x 600 dpi, Up to 38, 400 x 600 enhanced dpi

Processor speed
1200 MHz

Print languages
HP PCL 6, HP PCL 5c, HP postscript level 3 emulation, PDF, URF, PWG Raster

Display
2-line backlit LCD graphic display

Print colors
Yes

Number of print cartridges
4 (1 each black, cyan, magenta, yellow)

Mac compatible
Yes

Printer Management
HP Printer Assistant; HP Utility (Mac); 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)

Security management
Secure Boot; Secure Firmware Integrity; Runtime Code Integrity; password protected EWS; secure browsing via SSL/TLS 1.0; TLS 1.1; TLS 1.2; IPP over TLS; Network: enable/disable network ports and features; unused protocol and service disablement; SNMPv1; SNMPv2; and SNMPv3; community password change; HP ePrint: HTTPS with certificate validation; HTTP Basic Access Authentication; SASL authentication; Firewall and ACL; control panel lock; certificates configuration; UPD PIN printing; Syslog; signed firmware; administrator settings; 802.1x authentication (EAP-TLS, and PEAP); authentication via WEP; WPA/WPA2 Personal; WPA2-enterprise; encryption via AES or TKIP; Encrypted data storage; Secure data erase; Automatic firmware updates; Secure Encrypted Print via optional job storage; Compatible with optional HP JetAdvantage Security Manager; IPPS

Fonts and typefaces
84 scalable TrueType fonts

Mobile printing capability
Apple AirPrint™; Google Cloud Print™; HP ePrint; HP Smart App and other mobile Apps; Mopria™ Certified; ROAM capable for easy printing; Wi-Fi® Direct printing [6]

Wireless capability
Yes, built-in dual-band Wi-Fi; Authentication via WEP, WPA/WPA2, WPA Enterprise; Encryption via AES or TKIP; WPS; Wi-Fi Direct; Bluetooth Low-Energy

Connectivity, standard
1 Hi-Speed USB 2.0; 1 host USB at rear side; Gigabit Ethernet 10/100/1000BASE-T network; 802.3az(EEE); 802.11b/g/n/2.4/5 GHZ Wi-Fi radio

Minimum System Requirements
2 GB available hard disk space, Internet connection, USB port, Internet browser. For additional OS hardware requirements see microsoft.com

Minimum System Requirements for Macintosh
2 GB available hard drive space, Internet connection or USB port, OS hardware requirements see apple.com

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://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://citrixready.citrix.com, Linux- For more information see http://developers.hp.com/hp-linux-imaging-and-printing, Unix- For more information see http://hp.com/go/unixmodelscripts, UPD PCL6 / PS Printer Drivers, Supported for Compatible Network Operating systems please see http://hp.com/go/upd

Memory
256 MB NAND Flash, 512 MB DRAM

Maximum Memory
256 MB NAND Flash, 512 MB DRAM

Paper handling input, standard
50-sheet multipurpose tray, 250-sheet input tray

Paper handling input, optional
Optional 550-sheet tray

Input capacity
Up to 300 sheets

Maximum input capacity (sheets)
Up to 850 sheets (with Optional 550-sheet tray)

Paper handling output, standard
150-sheet output bin

Output capacity
Up to 150 sheets

Maximum output capacity (sheets)
Up to 150 sheets

Duplex printing
Manual (driver support provided)

Paper trays, standard
2

Paper trays, maximum
3

Envelope Feeder
No

Media sizes supported

Tray 1, Tray 2: A4; A5; A6; B5 (JIS); B6 (JIS); 16K (195 x 270 mm, 184 x 260 mm, 197 x 273 mm); 10 x 15 cm; Oficio (216 x 340 mm); postcards (JIS single, JIS double); envelopes (DL, C5, B5); Optional Tray 3: A4; A5; A6; B5 (JIS); B6 (JIS); 16K (195 x 270 mm, 184 x 260 mm, 197 x 273 mm); 10 x 15 cm; Oficio (216 x 340 mm); postcards (JIS single, JIS double)

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

Media types
Paper (bond, brochure, colored, glossy, letterhead, photo, plain, preprinted, prepunched, recycled, rough), postcards, labels, envelopes

Media weight, supported
Tray 1: 60 to 176 g/m² (up to 200 g/m² with postcards and HP Color laser glossy photo papers); Tray 2: 60 to 163 g/m² (up to 176 g/m² with postcards, up to 200 g/m² HP Color laser glossy photo papers): optional Tray 3: 60 to 163 g/m² (up to 176 g/m² with postcards, up to 150 g/m² Glossy media)

Power
110-volt input voltage: 110 to 127 VAC (+/- 10%), 60 Hz (+/- 3 Hz); 220-volt input voltage: 220 to 240 VAC (+/- 10%), 50/60Hz (+/- 3 Hz) (Not dual voltage, power supply varies by part number with # Option code identifier)

Power supply type
Internal (built-in) Power Supply

Power consumption
550 watts (active printing), 17 watts (ready), 0.9 watts (sleep), 0.9 watts (HP auto-off/auto-on), 0.07 watts (auto-off/manual-on), 0.07 watts (off) [2]

Typical electricity consumption (TEC) number
1.046 kWh/Week (Blue Angel); 0.394 kWh/Week (Energy Star 3.0)

Energy efficiency
CECP

Energy star certified
No

Operating temperature range
10 to 32.5°C

Recommended operating humidity range
30 to 70% RH (non-condensing)

Minimum dimensions (W x D x H)
412 x 453 x 295 mm

Maximum dimensions (W x D x H)
412 x 633 x 295 mm

Weight
17.5 kg

UPC number
(AB2) 192018995994; (ACJ) 192545323024; (BBU) 192545323031; (BGM) 192545323048

Package dimensions (W x D x H)
497 x 379 x 583 mm

Package weight
20.7 kg

Quantity per pallet
24 (NA/APJ), 18 (EMEA)

Pallet dimensions (W x D x H)
1200 x 1000 x 2483 mm (NA/APJ), 1200 x 1000 x 1900 mm (EMEA)

Pallet weight
517.1 kg (NA), 392.9 (EMEA/APJ)

Country of origin
Made in Vietnam

What's in the box
HP Color LaserJet Pro M454nw

4 preinstalled Introductory HP LaserJet Toner cartridges (Black, Cyan, Magenta, Yellow: ~1200 pages)
In-box documentation (Getting Started Guide, Install Poster), regulatory flyer
Internet connection is required to set up the printer. HP printer software is available at
http://www.hp.com/support
Power cord
USB cable

Cable included

Yes, 1 USB cable

Replacement cartridges

AMS: For distribution and use in North America and Latin America only: HP 414A Black Original LaserJet Toner Cartridge (~2,400 pages) W2020A; HP 414A Cyan Original LaserJet Toner Cartridge (~2,100 pages) W2021A; HP 414A Yellow Original LaserJet Toner Cartridge (~2,100 pages) W2022; HP 414A Magenta Original LaserJet Toner Cartridge (~2,100 pages) W2023A; HP 414x Black Original LaserJet Toner Cartridge (~7,500 pages) W2020x; HP 414x Cyan Original LaserJet Toner Cartridge (~6,000 pages) W2021x; HP 414x Yellow Original LaserJet Toner Cartridge (~6,000 pages) W2022x; HP 414x Magenta Original LaserJet Toner Cartridge (~6,000 pages) W2023x; EMEA: For distribution and use in Europe, Middle East, Russia, CIS, and Africa only: HP 415A Black Original LaserJet Toner Cartridge (~2,400 pages) W2030A; HP 415A Cyan Original LaserJet Toner Cartridge (~2,100 pages) W2031A; HP 415A Yellow Original LaserJet Toner Cartridge (~2,100 pages) W2032A; HP 415A Magenta Original LaserJet Toner Cartridge (~2,100 pages) W2033A; HP 415x Black Original LaserJet Toner Cartridge (~7,500 pages) W2030x; HP 415x Cyan Original LaserJet Toner Cartridge (~6,000 pages) W2031x; HP 415x Yellow Original LaserJet Toner Cartridge (~6,000 pages) W2032x; HP 415x Magenta Original LaserJet Toner Cartridge (~6,000 pages) W2033x; APJ: For distribution and use in Asia Pacific only: HP 416A Black Original LaserJet Toner Cartridge (~2,400 pages) W2040A; HP 416A Cyan Original LaserJet Toner Cartridge (~2,100 pages) W2041A; HP 416A Yellow Original LaserJet Toner Cartridge (~2,100 pages) W2042A; HP 416A Magenta Original LaserJet Toner Cartridge (~2,100 pages) W2043A; HP 416x Black Original LaserJet Toner Cartridge (~7,500 pages) W2040x; HP 416x Cyan Original LaserJet Toner Cartridge (~6,000 pages) W2041x; HP 416x Yellow Original LaserJet Toner Cartridge (~6,000 pages) W2042x; HP 416x Magenta Original LaserJet Toner Cartridge (~6,000 pages) W2043x

Software included

No software solutions are included in the Box
only on http://hp.com
http://123.hp.com/laserjet

Warranty

One-year Bench/Depot Repair warranty. Warranty and support options vary by product, country and local legal requirements. Contact your Contractual Vendor or go to hp.com/support to learn about HP award winning service and support options in your region. (wty code 4E; wty ID A033)

Overview

1   Measured using ISO/IEC 24734 and 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. Letter: Black/Color-9.8/12.1, A4: Black/Color 9.9/12.4 sec.

2   Wireless operations are compatible with 2.4 GHz and 5 GHz operations. 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

3   Features is only supported by the HP LaserJet Pro M454nw and M454dw printers. Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections.

4   Feature is supported on the HP LaserJet Pro M454nw and M454dw printers only. 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 http://www.hp.com/go/businessmobileprinting

6   Based on HP review of 2019 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: http://www.hp.com/go/printersecurityclaims

7   Pin printing enabled via USB installed in rear of device.

8   HP JetAdvantage Security Manager must be purchased separately. To learn more, please visit http://www.hp.com/go/securitymanager

10   Based on HP Internal testing using normalized TEC Value, 2019.

Specifications

2   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 typicallty based on measurement of 115V device.

6   Local printing requires mobile device and printer to be on the same network (usually Wi-Fi access points bridge wireless to wired connections) or have a direct wireless connection. Wireless performance is dependent on physical environment and distance from access point. Remote printing requires an Internet connection to an HP web-connected printer. Wireless broadband use requires separately purchased service contract for mobile devices. Check with service provider for coverage and availability in your area. For more information visit hp.com/go/mobileprinting. 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 hp.com/go/roam

9   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.

10 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

12 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.