



# HP Color LaserJet Enterprise MFP M480 series

HP's entry-level Enterprise-class Color MFP with speeds up to 28 ppm<sup>10</sup> and strongest security.<sup>1</sup>

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: [www.hp.com/learn/ds](http://www.hp.com/learn/ds)



HP Color LaserJet Enterprise MFP M480F

## Easy to use, simple to manage

- HP FutureSmart firmware can be updated with the latest features<sup>2</sup> to optimize your investment for years to come.
- Centralize control of your printing environment with HP Web Jetadmin—and help build business efficiency.<sup>3</sup>
- Easily enable workflows across your fleet with a consistent user experience and intuitive, tablet-like icons.
- Set up this MFP fast, and easily manage device settings to help increase efficiency.

## The world's most secure printing<sup>1</sup>

- The operating code (BIOS) is automatically checked during startup and repairs itself if compromised.
- Common Criteria certified<sup>4</sup> to continually monitor memory activity to detect and stop attacks in real time.
- Firmware is automatically checked during startup to determine if it's authentic code—digitally signed by HP.
- The printer's outgoing network connections are inspected to stop suspicious requests and thwart malware.

## Enhanced productivity to empower work teams

- Give workgroups what they need to succeed with hundreds of HP and third-party solutions and card reader support.
- Optimize workflows, reduce steps and errors, and support mobile workers with optional MFP apps that meet your specific business needs.
- Help ensure the security of confidential information with PIN/Pull printing to retrieve print jobs.
- Stay connected with an optional accessory for wireless,<sup>6</sup> Bluetooth® Low Energy, and NFC touch-to-print.

## Sustainability is smart business

- Help save paper right out of the box. Two-sided (duplex) printing is set at default for automatic savings.<sup>7</sup>
- Help reduce wasted paper and toner by only printing jobs that are truly needed, using HP Roam for Business.<sup>8</sup>
- Save energy without sacrificing performance—this MFP is ENERGY STAR® and Blue Angel certified.
- Remove barriers and help meet compliance and accessibility standards with the HP Accessibility Kit (includes Braille overlay and tactile adhesives, an HP Access Handle, and BigKeys LX Keyboard) and compatibility with HP Accessibility Assistant.<sup>9</sup>

<sup>1</sup> HP's most advanced embedded security features are available on HP Managed and Enterprise devices with HP FutureSmart firmware 4.5 or above. Claim based on HP review of 2019 published features of competitive in-class printers. Only HP offers a combination of security features to automatically detect, stop, and recover from attacks with a self-healing reboot, in alignment with NIST SP 800-193 guidelines for device cyber resiliency. For a list of compatible products, visit [hp.com/go/PrintersThatProtect](http://hp.com/go/PrintersThatProtect). For more information, visit [hp.com/go/PrinterSecurityClaims](http://hp.com/go/PrinterSecurityClaims)

<sup>2</sup> Some features enabled by future HP FutureSmart firmware upgrades may not be available on older devices, if for example, physical product characteristics limit the functionality of the new feature.

<sup>3</sup> HP Web Jetadmin is free and available for download at [hp.com/go/webjetadmin](http://hp.com/go/webjetadmin)

<sup>4</sup> Third-party certification based on Common Criteria Information Technology Security Evaluation ISO/IEC 15408 Standard requirements as of May 2019. Certification applicable to HP Managed and Enterprise devices running HP FutureSmart Firmware version 4.5.1 and later. For more information: <https://www.commoncriteriaportal.org/files/epfiles/Certification%20Report%20-%20HP%20Intrusion%20Detection.pdf>

<sup>5</sup> Use of the HP Trusted Platform Module may require a firmware upgrade.

<sup>6</sup> Wireless performance is dependent on physical environment and distance from access point and may be limited during active VPN connections.

<sup>7</sup> Dependent upon country setup specifications.

<sup>8</sup> 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](http://hp.com/go/roam)

<sup>9</sup> Firmware upgrade required.

<sup>10</sup> 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.

## Product walkaround

1. 4.3-inch (10.9 cm) color touchscreen
2. Easy-access USB port<sup>1</sup>
3. 150-sheet output bin
4. Automatic two-sided printing (default)<sup>1</sup>
5. Front door, access to Original HP Toner cartridges with JetIntelligence
6. 50-sheet multipurpose input tray 1
7. 250-sheet input tray 2
8. 50-sheet automatic document feeder (ADF)
9. Right door, access to print path
10. Convenient front on/off switch
11. Hi-Speed USB 2.0 port for third-party devices
12. Hi-Speed USB 2.0 printing port
13. Gigabit Ethernet network port



## Series at a glance



Model	HP Color LaserJet Enterprise MFP M480f
Product number	3QA55A
Print speed (Letter/A4) <sup>3</sup>	Up to 29/27 ppm
First page out (Letter/A4) <sup>4</sup>	As fast as 9.3/9.5 seconds mono, 10.9/11.0 seconds color
First copy out (Letter/A4)	As fast as 9.5/9.6 seconds mono, 11.2/11.3 seconds color
Control panel	4.3" (10.9 cm) color touchscreen
Memory	2 GB
Storage	16 GB eMMC
Automatic two-sided printing (default) <sup>2</sup>	√
Input capacity (standard/maximum)	Up to 300/850 sheets
50-sheet input tray 1	√
250-sheet input tray 2	√
550-sheet input tray 3	Optional
Recommended monthly page volume (RMPV) <sup>5</sup>	900 to 4,800 pages
Duty cycle	Up to 55,000 pages
Cartridge yields (black/color)	2,400/2,100 pages (A) or 7,500/6,000 pages (X)
Dual-band Wi-Fi with Bluetooth® Low Energy, Wi-Fi Direct® <sup>6</sup>	Optional
ENERGY STAR® qualified	√

<sup>1</sup> An administrator must enable the easy-access USB port before use.

<sup>2</sup> Automatic two-sided printing dependent upon country setup specifications.

<sup>3</sup> Print speed measured using ISO/IEC 24734, excludes first set of test documents. For more information, see [hp.com/go/printerclaims](http://hp.com/go/printerclaims). Exact speed varies depending on the system configuration, software application, driver, and document complexity.

<sup>4</sup> First page out measured using ISO/IEC 17629. For more information see [hp.com/go/printerclaims](http://hp.com/go/printerclaims). Exact speed varies depending on the system configuration, software application, driver, and document complexity.

<sup>5</sup> 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.

<sup>6</sup> Mobile device needs to be connected directly to the signal of a Wi-Fi Direct supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. Wi-Fi Direct is a registered trademark of Wi-Fi Alliance. For details, see [hp.com/go/mobileprinting](http://hp.com/go/mobileprinting).

## 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.

For carepack availability visit: [hp.com/go/cpc](http://hp.com/go/cpc)

## Top features

Set up work teams for success without adding more to your plate. Help people handle business wherever it happens while giving IT fleet-wide control it needs, using a compact MFP built for simple use and management.

HP printers have the industry's strongest security<sup>1</sup> because they're always on guard, continually stopping threats while adapting to new ones. And only HP printers can automatically self-heal from attacks, so IT doesn't need to intervene.

Simplify collaboration and productivity with a streamlined MFP that supports how people work today: fast, nimble, and connected. Print premium color documents businesses need to look professional day in and day out, plus scan and copy with ease.

Business is all about resource management, and finding efficiencies is everyone's responsibility. This compact MFP is designed for low energy use, to help people complete tasks quickly while conserving wherever possible.

### Accessories

<b>2MU47A</b>	HP Accessibility Assistant
<b>2TD64A</b>	HP Accessibility Kit
<b>3JN69A</b>	HP Jetdirect 3100w BLE/NFC/Wireless Accessory
<b>4CL32A</b>	HP Legic Secure USB Reader
<b>8FP31A</b>	HP Jetdirect LAN Accessory
<b>B5L31A</b>	HP Foreign Interface Harness
<b>CC543B</b>	HP SmartCard NIPRNet Solution for US Government
<b>CF404A</b>	HP LaserJet 550-sheet Feeder Tray
<b>X3D03A</b>	HP Universal USB Proximity Card Reader
<b>Y7C05A</b>	HP HIP2 Keystroke Reader

### Supplies

<b>W2020A</b>	HP 414A Black Original LaserJet Toner Cartridge (2,400 pages)
<b>W2020X</b>	HP 414X High Yield Black Original LaserJet Toner Cartridge (7,500 pages)
<b>W2021A</b>	HP 414A Cyan Original LaserJet Toner Cartridge (2,100 pages)
<b>W2021X</b>	HP 414X High Yield Cyan Original LaserJet Toner Cartridge (6,000 pages)
<b>W2022A</b>	HP 414A Yellow Original LaserJet Toner Cartridge (2,100 pages)
<b>W2022X</b>	HP 414X High Yield Yellow Original LaserJet Toner Cartridge (6,000 pages)
<b>W2023A</b>	HP 414A Magenta Original LaserJet Toner Cartridge (2,100 pages)
<b>W2023X</b>	HP 414X High Yield Magenta Original LaserJet Toner Cartridge (6,000 pages)

### Solutions

**Overview:** The HP Solutions portfolio provides a broad array of solutions designed to work with many HP printers and MFPs. They can help improve productivity, safeguard your data, and drive down costs. Helping employees and your IT team work more efficiently.

**Workflow:** Enable direct access to digital content and workflows from the MFP control panel to streamline document-intensive processes and help improve user productivity.

**Security:** HP JetAdvantage Security Manager fleet security compliance and management; HP Access Control; HP JetAdvantage Secure Print; Card readers; Secure Encrypted Print (UPD)

**Mobile and universal print:** HP Universal Print Driver (UPD); HP Print for Chrome; HP Roam for Business; HP ePrint; HP PrinterOn Enterprise

**Management:** HP Web JetAdmin; HP JetAdvantage Security Manager; HP JetAdvantage Insights

### Services

<b>U11F6E</b>	- HP 3y NBD CLJ Ent MFP M480 SVC
<b>U11F8E</b>	- HP 5y NBD CLJ Ent MFP M480 SVC
<b>U11F9E</b>	- HP 3y 4h 9x5 CLJ Ent MFP M480 SVC
<b>U11FCE</b>	- HP 5y 4h 9x5 CLJ Ent MFP M480 SVC
<b>U11FDE</b>	- HP 3y 4h 13x5 CLJ Ent MFP M480 SVC
<b>U11FGE</b>	- HP 5y 4h 13x5 CLJ Ent MFP M480 SVC
<b>U11FHE</b>	- HP 3y NBDOnsiteExch CLJ Ent MFP M480 SVC
<b>U11FKE</b>	- HP 5y NBDOnsiteExch CLJ Ent MFP M480 SVC
<b>U11FLE</b>	- HP 3y ChnlPartsOnly CLJ Ent MFP M480 SVC
<b>U11FNE</b>	- HP 5y ChnlPartsOnly CLJ Ent MFP M480 SVC
<b>U11FPPE</b>	- HP 1y PW NBD CLJ Ent MFP M480 SVC
<b>U11FQPE</b>	- HP 2y PW NBD CLJ Ent MFP M480 SVC
<b>U11FRPE</b>	- HP 1y PW 4h 9x5 CLJ Ent MFP M480 SVC
<b>U11FSPE</b>	- HP 2y PW 4h 9x5 CLJ Ent MFP M480 SVC
<b>U11FTPE</b>	- HP 1y PW 4h 13x5 CLJ Ent MFP M480 SVC
<b>U11VFPE</b>	- HP 2y PW 4h 13x5 CLJ Ent MFP M480 SVC
<b>U11VGPE</b>	- HP 1yPWNBOnsiteExch CLJ Ent MFP M480 SVC
<b>U11VHPE</b>	- HP 1yPWChnlPartsOnly CLJ Ent MFP M480 SVC
<b>U11VJPE</b>	- HP 2yPWChnlPartsOnly CLJ Ent MFP M480 SVC
<b>U9JT3E</b>	- HP Inst SVC w/nw Department Printer



<sup>1</sup> HP's most advanced embedded security features are available on HP Managed and Enterprise devices with HP FutureSmart firmware 4.5 or above. Claim based on HP review of 2019 published features of competitive in-class printers. Only HP offers a combination of security features to automatically detect, stop, and recover from attacks with a self-healing reboot, in alignment with NIST SP 800-193 guidelines for device cyber resiliency. For a list of compatible products, visit [hp.com/go/PrintersThatProtect](http://hp.com/go/PrintersThatProtect). For more information, visit [hp.com/go/PrinterSecurityClaims](http://hp.com/go/PrinterSecurityClaims)

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## HP Color LaserJet Enterprise MFP M480 series

<b>Model</b>	HP Color LaserJet Enterprise MFP M480f
<b>Product number</b>	3QA55A
<b>AIO functions</b>	Print, copy, scan, fax
<b>Print</b>	
<b>Print speed<sup>8,9,7</sup></b>	<b>First page out Letter:</b> As fast as 9.3 sec Black; As fast as 10.9 sec Color; <b>First page out A4:</b> As fast as 9.5 sec Black; As fast as 11.0 sec Color; <b>Letter:</b> Up to 29 ppm Black; Up to 29 ppm Color; <b>A4:</b> Up to 27 ppm Black; Up to 27 ppm Color; <b>Print speed (Landscape, A5):</b> Up to 49 ppm Black; Up to 49 ppm Color
<b>Print resolution</b>	<b>Black (best)</b> Up to 600 x 600 dpi; <b>Black (normal)</b> Up to 600 x 600 dpi <b>Color (best):</b> Up to 600 x 600 dpi; <b>Color (normal):</b> Up to 600 x 600 dpi
<b>Print technology</b>	Laser; <b>Print resolution technology:</b> HP ImageREt 3600, Enhanced (600x600 dpi), Fine Lines (1200x1200 dpi), Quickview (300x300 dpi)
<b>Print cartridges number</b>	4 (1 each black, cyan, magenta, yellow)
<b>Standard print languages</b>	HP PCL 6, HP PCL 5, HP PostScript level 3 emulation, native PDF printing (v 1.7), Apple AirPrint™
<b>Printer smart software features</b>	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, easy-access USB
<b>Printer management / HP SureSupply</b>	HP Printer Assistant, HP Web JetAdmin Software, HP JetAdvantage Security Manager, HP SNMP Proxy Agent (Part of HP WebJetAdmin), HP WS Pro Proxy Agent (Part of HP WebJetAdmin), Printer Administrator Resource Kit for HP Universal Print Driver (Driver Configuration Utility - Driver Deployment Utility - Managed Printing Administrator);/
<b>Scan</b>	
<b>Scan type / Technology</b>	<b>Type:</b> Flatbed, ADF; <b>Technology:</b> Contact Image Sensor (CIS); <b>Twain version:</b> Version 2.1
<b>Scan resolution</b>	<b>Hardware:</b> Up to 600 x 600 dpi; <b>Optical:</b> Up to 600 dpi
<b>Scan Size</b>	<b>ADF:</b> 8.5 x 14 in Maximum; 5 x 7 in Minimum; <b>Flatbed:</b> 8.5 x 11.7 in
<b>Scan speed<sup>11</sup></b>	Up to 31 ppm/49 ipm (b&w), up to 21 ppm/37 ipm (color) Letter; Up to 29 ppm/46 ipm (b&w), up to 20 ppm/35 ipm (color) A4; <b>Duplex:</b> Up to 49 ipm (b&w), up to 37 ipm (color) Letter; Up to 46 ipm (b&w), up to 35 ipm (color) A4
<b>Scanner advanced features</b>	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; PDF; GIF; JPG; MTIFF
<b>Bit depth / Grayscale levels</b>	24-bit / Z56
<b>Digital sending standard features</b>	Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; 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
<b>Copy</b>	
<b>Copy speed</b>	<b>Letter:</b> Up to 28 cpm Black; Up to 28 cpm Color; <b>A4:</b> Up to 27 cpm Black; Up to 27 cpm Color; <b>First copy out Letter:</b> As fast as 9.5 sec Black; As fast as 11.2 sec Color; <b>First copy out A4:</b> As fast as 9.6 sec Black; As fast as 11.3 sec Color; <b>2-sided Letter:</b> Up to 25 cpm Black; Up to 25 cpm Color; <b>2-sided A4:</b> Up to 24 cpm Black; Up to 24 cpm Color
<b>Copy resolution</b>	<b>Color (text and graphics):</b> Up to 600 x 600 dpi
<b>Maximum Number of Copies</b>	Up to 9999 copies
<b>Copier resize</b>	25 to 400%
<b>Copier settings</b>	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)
<b>Fax</b>	
<b>Fax speed<sup>6</sup></b>	<b>Up to:</b> 33.6 kbps (maximum); 14.4 kbps (default) / <b>Letter:</b> 3 sec per page
<b>Fax resolution</b>	<b>Black (best):</b> Up to 300 x 300 dpi; <b>Black (standard):</b> 203 x 98 dpi
<b>Fax smart software features</b>	Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule
<b>Fax Features</b>	<b>Fax memory:</b> Dependent on the amount of available disk space; <b>Auto fax reduction supported:</b> Yes; <b>Auto-redialing:</b> Yes; <b>Fax delayed sending:</b> No; <b>Distinctive ring detection supported:</b> No; <b>Fax forwarding supported:</b> Yes; <b>Fax phone TAM interface supported:</b> No; <b>Fax polling supported:</b> Yes (poll to receive only); <b>Fax telephone mode supported:</b> No; <b>Junk barrier supported:</b> Yes, as blocked fax numbers; <b>Maximum speed dialing numbers:</b> Up to 1000 numbers; <b>PC interface supported:</b> Yes, software not included; <b>Remote retrieval capability supported:</b> No; <b>Telephone handset supported:</b> No
<b>Connectivity</b>	
<b>Standard connectivity</b>	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabyte Ethernet 10/100/1000T network; 1 FAX
<b>Network capabilities</b>	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).
<b>Wireless capability</b>	Optional, enabled with purchase of a wireless hardware accessory. Dual band Wireless Station and Wi-Fi Direct functionality available with HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A
<b>Mobile printing capability<sup>5</sup></b>	HP ePrint; Apple AirPrint™; Mopria™ Certified; Wi-Fi® Direct Printing; NFC Touch-to-print (optional); Roam capable for easy printing; PrinterOn Print
<b>Memory</b>	<b>Standard:</b> 2 GB; <b>Maximum:</b> 2 GB
<b>Processor speed</b>	800 MHz / <b>Storage:</b> 16 GB eMMC /
<b>Duty cycle (monthly)</b>	<b>Letter:</b> Up to 55,000 pages; <b>A4:</b> Up to 55,000 pages; <b>Recommended monthly page volume:</b> 900 to 4,800 pages

# HP Color LaserJet Enterprise MFP M480 series

<b>Model</b>	HP Color LaserJet Enterprise MFP M480f
<b>Product number</b>	3QA55A
<b>Paper handling</b>	
Input	50-sheet multipurpose tray, 250-sheet input tray; Up to 300 sheets Standard; Up to 15
Output	<b>Standard:</b> 150-sheet output bin; Up to 150 sheets Standard
Duplex Options	Automatic (default)
Auto document feeder capacity	Standard, 50 sheets
Envelope feeder	No
Standard paper trays	2
Media types	Paper (bond, brochure, colored, glossy, letterhead, photo, plain, preprinted, prepunched, recycled, rough), postcards, labels, envelopes
Media weight	Tray 1: 16 to 47 lb bond (up to 52 lb with HP Color laser glossy photo papers); Tray 2: 16 to 43 lb bond (up to 47 lb with postcards, up to 52 lb with HP Color laser glossy photo papers); optional Tray 3: 16 to 43 lb bond (up to 47 lb with postcards, up to 40 lb with HP Color laser glossy photo papers); Automatic duplexer: 16 to 43 lb
Media sizes	Tray 1: letter, legal, office, executive, statement, 4 x 6, 3 x 5, 5 x 7, 5 x 8, postcard (JIS), double postcard (JIS), 8.5 x 13, envelope (commercial No. 9, No. 10, Monarch); Custom: 3 x 5 to 8.5 x 14 in; Tray 2: letter, executive, statement, 4 x 6, 5 x 7, 5 x 8, double postcard (JIS); Custom: 3.9 x 5.8 to 8.5 x 14 in; Optional Tray 3: letter, executive, statement, 4 x 6, 5 x 7, 5 x 8, double postcard (JIS); Custom: 3.9 x 5.8 to 8.5 x 14 in
Media Sizes Custom	Tray 1: 3 x 5 to 8.5 x 14 in; Tray 2: 3.9 x 5.8 to 8.5 x 14 in; Optional Tray 3: 3.9 x 5.8 to 8.5 x 14 in
<b>Dimensions (w x d x h)</b>	16.4 x 18.6 x 15.7 in; 415.4 x 472 x 399.8 mm; <b>Maximum:</b> 16.4 x 44.3 x 25.8 in (printer fully opened); 415.4 x 1124.4 x 656 mm (printer fully opened)
<b>Weight</b>	51.2 lbs; 23.2 kgs
<b>What's in the box<sup>1</sup></b>	HP Color LaserJet Enterprise MFP M480f printer; HP Black Original LaserJet Toner Cartridge (~2,400 pages) HP Cyan, Magenta, Yellow Original LaserJet Toner Cartridges (~2,100 pages each); Getting started Guide; 1 Power cord
<b>Replacement cartridges<sup>2</sup></b>	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) W2022A HP 414A Magenta Original LaserJet Toner Cartridge (~2,100 pages) W2023A HP 414X High Yield Black Original LaserJet Toner Cartridge (~7,500 pages) W2020X HP 414X High Yield Cyan Original LaserJet Toner Cartridge (~6,000 pages) W2021X HP 414X High Yield Yellow Original LaserJet Toner Cartridge (~6,000 pages) W2022X HP 414X High Yield Magenta Original LaserJet Toner Cartridge (~6,000 pages) W2023X
<b>Warranty features</b>	One-year, On-site Repair 24-hour / 7 day a week phone support
<b>Energy star certified</b>	Yes
<b>Energy efficiency compliance<sup>4</sup></b>	EPEAT® Silver; CECP; ENERGY STAR® certified
<b>Control panel</b>	4.3" Color Capacitive Touch Control Panel
<b>Display</b>	4.3" diagonal Color TFT-LCD back lit 480 RGB (H) x 272 (V)
<b>Software included</b>	No software solutions are included in the Box only on <a href="http://hp.com">http://hp.com</a> or <a href="http://1123.hp.com">http://1123.hp.com</a>
<b>Fonts and typefaces</b>	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 <a href="http://www.hp.com/go/laserjetfonts">http://www.hp.com/go/laserjetfonts</a>
<b>Compatible operating systems</b>	Windows Client OS (32/64 bit)-, Win10, Win8.1, Win7 Ultimate, Mobile OS-, iOS, Android, Mac-, Apple® MacOS High Sierra v10.13, Apple® MacOS Mojave v10.14, Apple® MacOS Catalina v10.15, Discrete PCL6 Printer Driver-, For more information on the supported operating systems go to <a href="http://support.hp.com">http://support.hp.com</a> , 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 <a href="http://www.hp.com/go/lupd">www.hp.com/go/lupd</a>
<b>Compatible network operating systems</b>	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, Windows Server 2019 64-bit, Citrix XenApp & XenDesktop 7.6, Novell iPrint server, Citrix Ready Kit Certification - Up to Citrix Server 7.18 for more information see <a href="http://citrixready.citrix.com">http://citrixready.citrix.com</a> , Linux- For more information see <a href="http://developers.hp.com/hp-linux-imaging-and-printing">http://developers.hp.com/hp-linux-imaging-and-printing</a> , Unix- For more information see <a href="http://hp.com/go/unixmodelscripts">http://hp.com/go/unixmodelscripts</a> , Linux- For more information see <a href="http://developers.hp.com/hp-linux-imaging-and-printing">http://developers.hp.com/hp-linux-imaging-and-printing</a> , Unix- For more information see
<b>Minimum system requirements</b>	<b>PC:</b> 2 GB available hard disk space Internet connection or USB port Internet browser. For additional OS hardware requirements see <a href="http://microsoft.com">microsoft.com</a> . <b>Mac:</b> 2 GB available hard drive space Internet connection or USB port Internet browser. For additional OS hardware requirements see <a href="http://apple.com">apple.com</a>
<b>Power</b>	<b>Power supply type:</b> Internal (Built-in) power supply; <b>Power supply required:</b> 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); <b>Power consumption:</b> 581 watts (active printing), 21.9 watts (ready), 1.0 watts (sleep), 0.08 watts (auto-off/manual-on), 0.08 watts (manual off); <b>Typical electricity consumption (TEC number):</b> 1.051 kWh/week (Blue Angel); 0.425 kWh/week (Energy Star 3.0)
<b>Acoustics</b>	<b>Acoustic power emissions:</b> 6.1 B(A) (Printing at 27 ipm)
<b>Operating environment</b>	<b>Operating temperature range:</b> 50 to 90.5°F ; <b>Recommended operating temperature:</b> 59 to 80.6°F ; <b>Storage temperature range:</b> -4 to 104°F ; <b>Operating humidity range:</b> 30 to 70% RH ; <b>Recommended operating humidity range:</b> 10 to 90%
<b>Security management</b>	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, Kerberos authentication, Supports WPA- 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 PIPS 140 validated cryptographic libraries from Microsoft), SSL/TLS (HTTPS), Encrypted Credentials; Device: HP Sure Start Secure Boot (BIOS Integrity Checking with self-healing capability), Intrusion Detection (Constant in-device monitoring for attacks), Whitelisting (loads only known good code), Embedded Trusted Platform Module, HP Connection Inspector, Security lock slot, USB port disablement; Security management: Compatible with HP JetAdvantage Security Manager, Device Security Syslog Messages processed and accessible in Arcsight and Splunk SIEMs

- <sup>1</sup> For yield information on the cartridge(s) included with your printer, see <http://www.hp.com/go/toneryield>. Yield values measured in accordance with ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors.
- <sup>2</sup> For yield information on the cartridge(s) included with your printer, see <http://www.hp.com/go/toneryield>. Yield values measured in accordance with ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors.
- <sup>3</sup> Declared yield value in accordance with ISO/IEC 19798. Actual yields vary considerably based on images printed and other factors. For more information, visit: <http://www.hp.com/go/learnaboutsupplies>
- <sup>4</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See <http://www.epeat.net> for registration status by country.
- <sup>5</sup> 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. Subscription may be required. For more information, visit <http://www.hp.com/go/roam>
- <sup>6</sup> Based on standard ITU-T test image #1 at standard resolution. More complicated pages or higher resolution will take longer and use more memory.
- <sup>7</sup> Measured using ISO/IEC 24734 Feature Performance Test, 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.
- <sup>8</sup> 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.
- <sup>9</sup> 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.
- <sup>10</sup> 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 and 230V for Blue Angel.
- <sup>11</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

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October 2020

