

# HP Color LaserJet Enterprise M455dn



## Small and mighty: HP's smallest Enterprise printer

HP's entry-level Enterprise-class color printer with speeds up to 28 ppm<sup>9</sup> and strongest security.<sup>1</sup>



This printer is intended to work only with cartridges that have a new or reused HP chip, and it uses dynamic security measures to block cartridges using a non-HP chip. Periodic firmware updates will maintain the effectiveness of these measures and block cartridges that previously worked. A reused HP chip enables the use of reused, remanufactured, and refilled cartridges. More at: <http://www.hp.com/learn/ds>

### Easy to use, simple to manage

- HP FutureSmart firmware can be updated with the latest features<sup>1</sup> to optimise your investment for years to come.
- Centralise control of your printing environment with HP Web Jetadmin – and help build business efficiency.<sup>2</sup>
- Easily enable workflows across your fleet with a consistent user experience and intuitive, tablet-like icons.
- Set up this printer fast, and easily manage device settings to help increase efficiency.

### The world's most secure printing<sup>3</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.
- Safeguard data stored on this printer – keys, passwords, certificates, and more – with the embedded HP Trusted Platform Module.<sup>5</sup>

### 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.
- 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.
- Print directly from the 6.9 cm (2.7 inch) colour display.

### 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 printer is ENERGY STAR® and Blue Angel certified.
- Remove barriers and help meet compliance and accessibility standards with the HP Accessibility Kit (which includes Braille overlay and tactile adhesives, an HP Access Handle, and BigKeys LX Keyboard) and compatibility with HP Accessibility Assistant.

## Product walkaround

HP Color LaserJet Enterprise M455dn shown

1. 150 sheet output bin
2. Easy-access USB port
3. Front door, access to Original HP toner cartridges with JetIntelligence
4. Automatic two-sided printing (default)
5. 50 sheet multipurpose input tray 1
6. 250 sheet input tray 2
7. 6.9 cm colour graphics display
8. Convenient front on/off switch
9. Right door, access to print path
10. Hi-Speed USB 2.0 port for third-party devices
11. Hi-Speed USB 2.0 printing port
12. Gigabit Ethernet network port



## Accessories, Supplies and Support

|  |   |
|--|---|
| <b>Supplies</b>  | <b>W2030A</b> HP 415A Black Original LaserJet Toner Cartridge (~2,400 pages)                          |
|  | <b>W2030X</b> HP 415X High Yield Black Original LaserJet Toner Cartridge (~7,500 pages)               |
|  | <b>W2031A</b> HP 415A Cyan Original LaserJet Toner Cartridge (~2,100 pages/2,100 pages)               |
|  | <b>W2031X</b> HP 415X High Yield Cyan Original LaserJet Toner Cartridge (~6,000 pages/6,000 pages)    |
|  | <b>W2032A</b> HP 415A Yellow Original LaserJet Toner Cartridge (~2,100 pages/2,100 pages)             |
|  | <b>W2032X</b> HP 415X High Yield Yellow Original LaserJet Toner Cartridge (~6,000 pages/6,000 pages)  |
|  | <b>W2033A</b> HP 415A Magenta Original LaserJet Toner Cartridge (~2,100 pages/2,100 pages)            |
|  | <b>W2033X</b> HP 415X High Yield Magenta Original LaserJet Toner Cartridge (~6,000 pages/6,000 pages) |
| <b>Accessories</b>   | <b>3JN69A</b> HP Jetdirect 3100w BLE/NFC/Wireless Accessory   |
|  | <b>4QL32A</b> HP Legic Secure USB Reader  |
|  | <b>8FP31A</b> HP Jetdirect LAN Accessory  |
|  | <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  |
| <b>Service and Support</b>   | <b>U11W0E</b> HP 3 year Next Business Day Color LaserJet Enterprise M455 service                      |
|  | <b>U11W1E</b> HP 4 year Next Business Day Color LaserJet Enterprise M455 service                      |
|  | <b>U11W2E</b> HP 5 year Next Business Day Color LaserJet Enterprise M455 service                      |
|  | <b>U11WDE</b> HP 3 year Channel Parts Only Color LaserJet Enterprise M455 service                     |
|  | <b>U11WFE</b> HP 4 year Channel Parts Only Color LaserJet Enterprise M455 service                     |
|  | <b>U11WGE</b> HP 5 year Channel Parts Only Color LaserJet Enterprise M455 service                     |
|  | <b>U11WHPE</b> HP 1 year Post Warranty Next Business Day Color LaserJet Enterprise M455 service       |
|  | <b>U11WJPE</b> HP 2 year Post Warranty Next Business Day Color LaserJet Enterprise M455 service       |
|  | <b>U11WQPE</b> HP 1 year Post Warranty Channel Parts Only Color LaserJet Enterprise M455 service      |
| <b>U11WRPE</b> HP 2 year Post Warranty Channel Parts Only Color LaserJet Enterprise M455 service |   |

## Technical specifications

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|---|---|
| <b>Model</b>                                  | HP Color LaserJet Enterprise M455dn   |
| <b>Product number</b>                         | 3PZ95A  |
| <b>Functions</b>                              | Print   |
| <b>Control panel</b>                          | 6.85 cm Colour Non-Touch Control Panel with 24 Keypad   |
| <b>Print</b>                                  |   |
| <b>Print technology</b>                       | Laser   |
| <b>Print speed<sup>1</sup></b>                | <b>Black (A4, normal):</b> Up to 27 ppm; <b>Colour (A4, normal):</b> Up to 27 ppm;<br><b>Black (A4, duplex):</b> Up to 24 ipm; <b>Colour (A4, duplex):</b> Up to 24 ipm;  |
| <b>First page out<sup>2</sup></b>             | <b>Black (A4, ready):</b> As fast as 9.5 sec; <b>Colour (A4, ready):</b> As fast as 11.0 sec;<br><b>Black (A4, sleep):</b> As fast as 11 sec; <b>Colour (A4, sleep):</b> As fast as 12.1 sec;   |
| <b>Print resolution</b>                       | <b>Black (best):</b> Up to 600 x 600 dpi; <b>Colour (best):</b> Up to 600 x 600 dpi;<br><b>Technology:</b> HP ImageREt 3600, Enhanced (600x600 dpi), Fine Lines (1200x1200 dpi), Quickview (300x300 dpi);   |
| <b>Monthly duty cycle</b>                     | Up to 55,000 pages A4; <b>Recommended monthly page volume:</b> 900 to 4,800 Pages   |
| <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>Standard print languages</b>               | HP PCL 6, HP PCL 5, HP PostScript level 3 emulation, native PDF printing (v 1.7), Apple AirPrint™   |
| <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>Print area</b>                             | <b>Print margins</b> Top: 2 mm, Bottom: 2 mm, Left: 2 mm, Right: 2 mm; Maximum print area : 212 x 352 mm  |
| <b>Duplex printing</b>                        | Automatic (default)   |
| <b>Processor speed</b>                        | 800 MHz   |
| <b>Connectivity</b>                           |   |
| <b>Standard</b>                               | 2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network   |
| <b>Optional</b>                               | HP Jetdirect LAN Accessory 8FP31A; HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A   |
| <b>Wireless</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>3</sup></b> | HP ePrint; Apple AirPrint™; NFC touch-to-print (optional); Mopria™ Certified; PrinterOn Print; ROAM capable for easy printing; Wi-Fi® Direct printing   |
| <b>Supported network protocols</b>            | Via built-in networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD, Web Services Printing, IPP 2.0, Apple AirPrint™, HP ePrint; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPS, Syslog; Security: SNMPv3, SSL Cert Management, IPSec(IKEv1 and IKEv2), Firewall, 802.1x                                      |
| <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>Hard disk</b>                              | Not applicable to this product  |
| <b>Memory</b>                                 | <b>Standard:</b> 1.25 GB ; <b>Maximum:</b> 1.25 GB  |
| <b>Media handling</b>                         |   |
| <b>Number of paper trays</b>                  | <b>Standard:</b> 2 ; <b>Maximum:</b> 3  |
| <b>Media types</b>                            | Paper (bond, brochure, coloured, glossy, photo, plain, preprinted, prepunched, recycled, rough); Postcards; Labels; Envelopes   |
| <b>Media size</b>                             | <b>Custom (metric):</b> Tray 1: 76 x 127 to 216 x 356 mm; Tray 2: 98 x 148 to 216 x 356 mm; Optional Tray: 98 x 148 to 216 x 356 mm<br><b>Supported (metric):</b> Tray 1: A4, RA4, A5, B5 (JIS), B6 (JIS), 10 x 15 cm, A6, 16K, envelopes (B5, C5 ISO, C6, DL ISO); Custom: 76 x 127 to 216 x 356 mm; Tray 2: A4; RA4; A5; B5 (JIS); B6 (JIS); 10 x 15 cm; A6; 16K; 98 x 148 to 216 x 356 mm; Optional Tray 3: A4; RA4; A5; B5 (JIS); B6 (JIS); 10 x 15 cm; A6; 16K; 98 x 148 to 216 x 356 mm |

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| <b>Model</b>                                | HP Color LaserJet Enterprise M455dn  |
| <b>Product number</b>                       | 3PZ95A   |
| <b>Media handling</b>                       | <b>Standard input:</b> 50 sheet multipurpose tray, 250 sheet input tray<br><b>Standard output:</b> 150 sheet output bin<br><b>Optional input:</b> Optional 550 sheet tray  |
| <b>Media weight</b>                         | Tray 1: 60 to 176 g/m <sup>2</sup> (up to 200 g/m <sup>2</sup> with postcards and HP Color laser glossy photo papers); Tray 2: 60 to 163 g/m <sup>2</sup> (up to 176 g/m <sup>2</sup> with postcards, up to 200 g/m <sup>2</sup> HP Color laser glossy photo papers); Optional Tray 3: 60 to 163 g/m <sup>2</sup> (up to 176 g/m <sup>2</sup> with postcards, up to 150 g/m <sup>2</sup> Glossy media); Automatic duplexer: 60 to 163 g/m <sup>2</sup>   |
| <b>Input capacity</b>                       | <b>Tray 1:</b> Sheets: 50; envelopes: 5<br><b>Tray 2:</b> Sheets: 250; envelopes: 10<br><b>Tray 3:</b> Sheets: 550<br><b>Maximum:</b> Up to 850 sheets (with optional 550 sheet tray)  |
| <b>Output capacity</b>                      | <b>Standard:</b> Up to 150 sheets<br>Envelopes: Up to 20 envelopes<br><b>Maximum:</b> Up to 150 sheets   |
| <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://www.support.hp.com">http://www.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/upd">http://www.hp.com/go/upd</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 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 <a href="http://www.citrixready.citrix.com">http://www.citrixready.citrix.com</a> ; Linux: For more information see <a href="http://www.developers.hp.com/hp-linux-imaging-and-printing">http://www.developers.hp.com/hp-linux-imaging-and-printing</a> ; Unix: For more information see <a href="http://www.hp.com/go/unixmodelscripts">http://www.hp.com/go/unixmodelscripts</a>  |
| <b>Minimum system requirements</b>          | <b>Windows:</b> 2 GB available hard disk space Internet connection or USB port Internet browser. For additional OS hardware requirements see <a href="http://www.microsoft.com">http://www.microsoft.com</a><br><b>Mac:</b> 2 GB available hard disk space Internet connection or USB port Internet browser. For additional OS hardware requirements see <a href="http://www.apple.com">http://www.apple.com</a>   |
| <b>Software included</b>                    | No software solutions are included in the Box only on <a href="http://www.hp.com">http://www.hp.com</a> or <a href="http://www.123.hp.com">http://www.123.hp.com</a>   |
| <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 WJA-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 FIPS40 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 |
| <b>Printer management</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>Dimensions and weight</b>                |  |
| Printer dimensions (W x D x H)              | <b>Minimum</b> 413.6 x 472 x 304.4 mm;<br><b>Maximum:</b> 413.6 x 1038 x 330 mm (printer fully opened)   |
| Package dimensions (W x D x H)              | 497 x 379 x 583 mm   |
| Printer weight                              | ~18.9 kg   |
| Package weight                              | 21.6 kg  |
| <b>Operating environment</b>                | <b>Temperature:</b> 15 to 32.5°C<br><b>Humidity:</b> 10 to 90% RH  |
| <b>Storage conditions</b>                   | <b>Temperature:</b> -20 to 40°C  |
| <b>Acoustics</b>                            | <b>Acoustic power emissions:</b> 5.9 B(A) at 27 ipm<br><b>Acoustic pressure emissions:</b> 48 d(A) at 27 ipm   |
| <b>Power</b>                                | <b>Requirements:</b> 220-volt input voltage: 220 to 240 VAC (+/- 10%), 50/60Hz (+/- 3 Hz);<br><b>Consumption:</b> 574 watts (active printing), 16.7 watts (ready), 1.1 watts (sleep), 0.08 watts (auto-off/manual-on), 0.08 watts (manual off);<br><b>Typical Electricity Consumption (TEC)<sup>4</sup>:</b> Blue Angel: 1.105 kWh/Week; Energy Star 3.0: 0.437 kWh/Week;<br><b>Power supply type:</b> Internal (built-in) Power Supply;   |
| <b>Energy savings feature technology</b>    | HP Auto-On/Auto-Off Technology; Instant-on Technology; Instant-on Copy   |
| <b>Certifications<sup>5</sup></b>           | CISPR 22:2008 (International) Class A, CISPR 32:2012 (International)/ EN 55032:2012, CISPR 35:2016 (International)/ EN 55035:2017, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013; Other EMC approvals as required by individual countries.<br>Blue Angel RAL-UZ 205; CECP; ENERGY STAR® certified; EPEAT® Silver<br><b>Blue Angel compliant<sup>6</sup></b> Yes, Blue Angel DE-UZ 205—only ensured when using Original HP supplies   |
| <b>Sustainable impact specifications</b>    | Mercury-free   |
| <b>Country of origin</b>                    | Made in Vietnam  |
| <b>What's in the box<sup>7</sup></b>        | HP Color LaserJet Enterprise M455dn 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>Warranty</b>                             | One-year, On-site Repair 24-hour / 7 day a week phone support  |

## Footnotes

- <sup>1</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>2</sup> HP Web Jetadmin is free and available for download at <http://www.hp.com/go/webjetadmin>.
- <sup>3</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 <http://www.hp.com/go/PrintersThatProtect>. For more information, visit <http://www.hp.com/go/PrinterSecurityClaims>.
- <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 <http://www.hp.com/go/roam>.

## Technical specifications disclaimers

- <sup>1</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>2</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>3</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. Customers 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>4</sup> Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh).
- <sup>5</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See <http://www.epeat.net> for registration status by country.
- <sup>6</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>7</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.

