



LASERJET PRO 400

COLOR M451dw

Produce professional-quality color documents with ease and fast speed. Easily integrate into your office or wireless home network. Save paper with automatic two-sided printing. And print from virtually anywhere with HP ePrint.³

- Print Speed¹:** Up to 21 ppm black (letter), Up to 21 ppm color (letter)
- Print Resolution:** Up to 600 x 600 dpi
- Print Technology Resolution:** HP ImageREt 3600
- Standard Connectivity:** 1 Hi-Speed USB 2.0 port, 1 Fast Ethernet 10/100Base-TX network port, 1 WiFi 802.11 b/g/n
- Display:** 2-line LCD (text)
- Monthly Volume (Duty Cycle):** Up to 40,000 pages
- Duplex Print Options:** Automatic (standard)
- Paper Handling:** 50-sheet multipurpose tray, 250-sheet input tray 2, 150-sheet output bin



Professional-grade speed and color

- Boost productivity and save time with print speeds up to 21 ppm letter.¹
- Produce bold text and smooth color with HP ImageREt 3600 and Original HP LaserJet toner cartridges.
- Produce color marketing materials in-house on a range of media sizes by using tips and templates from HP.
- Print documents affordably. Get the same black cost per page as a black-and-white HP LaserJet printer.⁴

Manageability, productivity, and mobility

- Conserve resources and save paper, using automatic two-sided printing.
- Proactively manage office printing with HP Web Jetadmin.
- Conveniently locate the printer anywhere in the office, using built-in wireless connectivity.² Share printing resources, using built-in Ethernet.
- Print from virtually anywhere with HP ePrint.³

Easy-to-use and resource-conserving

- Reduce energy use with HP Auto-On/Auto-Off Technology.⁵ Also save with Instant-on Technology.⁷
- Use HP Auto Wireless Connect to autoconfigure networking.²
- Receive consistent results with Original HP cartridges and easily reorder with HP SureSupply.⁸
- Take advantage of free, easy recycling—cartridges returned through HP Planet Partners are recycled responsibly.⁹



ECOHIGHLIGHT HP LaserJet Pro 400 Color M451dw

- Save energy—HP Auto-On/Auto-Off Technology turns your printer on when you need it, off when you don't.¹
- Reduce paper use by up to 50%, using automatic two-sided printing.
- Lower your impact—reduce energy and paper use with HP EcoSMART Console.

ENERGY STAR® qualified

¹HP Auto-On/Auto-Off capabilities subject to printer and settings.

www.hp.com/la/ecosolutions

Please recycle your computing hardware and printing supplies.



¹Measured 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. ²Wireless performance is dependent upon physical environment and distance from access point, and may be limited during active VPN connections. ³Requires an Internet connection to the printer. Feature works with any Internet- and e-mail-capable device. Print times may vary. For a list of supported documents and image types, see <http://www.hp.com/go/eprintcenter>. ⁴Compared with HP LaserJet Pro P1566/ P1606dn printer. Assuming customer is printing at least 30% of total pages in color with content similar to the color ISO/IEC 19798 test suite (<http://www.iso.org/jtc1/sc28>) and overall average job length of three pages. Yields established using ISO/IEC test standards. Actual yields and costs vary considerably depending on images printed, number of color pages printed, and other factors. ⁵HP Auto-On/Auto-Off capabilities subject to printer and settings. Actual results may vary. ⁷Compared with traditional fusing. ⁸Program features and availability may vary by country. For more information, visit <http://www.hp.com/learn/suresupply>. ⁹Program availability varies. HP print cartridge return and recycling is currently available in more than 50 countries and territories around the world through the HP Planet Partners program. For more information, or to request return envelopes and bulk collection boxes, visit <http://www.hp.com/recycle>.





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TECHNICAL SPECIFICATIONS

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| PRINT TECHNOLOGY | Laser |
| PRINT SPEED¹ | Black (Normal, letter): Up to 21 ppm; Color (Normal, letter): Up to 21 ppm; First Page Out²: As fast as 17 sec Color (letter, ready), As fast as 17 sec black (letter, ready) |
| PRINT RESOLUTION | Black (Best): Up to 600 x 600 dpi; Black (Normal): Up to 600 x 600 dpi; Color (Best): Up to 600 x 600 dpi |
| PRINT TECHNOLOGY RESOLUTION | HP ImageREI 3600 |
| DUPEX PRINT OPTIONS | Automatic (standard) |
| HP ePrint CAPABILITY | Yes |
| MOBILE PRINTING CAPABILITY | HP ePrint, Apple AirPrint™, Wireless Direct Print |
| STANDARD PRINT LANGUAGES | HP PCL 6, HP PCL 5c, HP postscript level 3 emulation |
| NUMBER OF PRINT CARTRIDGES | 4 (1 black A, 1 each cyan, magenta, yellow) |
| SURESUPPLY SUPPORTED³ | Yes |
| PRINTER MANAGEMENT | Windows: HP Device Toolbox (default install), SNP Alerts (minimum network install), HP Web Jetadmin (download); Mac: HP Utility |
| PRINTER SMART SOFTWARE FEATURES | HP ePrint, Apple AirPrint™, Wireless Direct Print, HP Auto-On/Auto-Off technology, Automatic two-sided printing |
| STANDARD CONNECTIVITY | 1 Hi-Speed USB 2.0 port, 1 Fast Ethernet 10/100Base-TX network port, 1 WiFi 802.11 b/g/n |
| WIRELESS CAPABILITY | Yes, built-in WiFi 802.11 b/g/n |
| NETWORK CAPABILITIES | Via built-in 10/100 Fast Ethernet, Wireless 802.11 b/g/n |
| CONTROL PANEL | 2-line, 16-character backlit LCD display, 5 buttons (Cancel job, Left arrow, Right arrow, Select, Back), 2 LED lights (Attention, Ready) |
| FONTS AND TYPEFACES | 84 scalable TrueType fonts |
| MEDIA TYPES SUPPORTED | Paper (bond, brochure, colored, glossy, letterhead, photo, plain, preprinted, prepunched, recycled, rough), postcards, transparencies, labels, envelopes |
| MEDIA SIZES SUPPORTED | Tray 1: A4, A5, A6, B5 (JIS), 16K, 10 x 15 cm, postcards (JIS single, JIS double), envelopes (ISO DL, ISO C5, ISO B5); Tray 2, optional Tray 3: A4, A5, A6, B5 (JIS), 16K, 10 x 15 cm, postcards (JIS single, JIS double), envelopes (ISO DL, ISO C5, ISO B5); Automatic duplexer: A4, B5 |
| MEDIA WEIGHTS SUPPORTED | Tray 1: 60 to 176 g/m ² (up to 220 g/m ² with postcards and HP Color laser glossy photo papers); Tray 2, Tray 3 (optional): 60 to 163 g/m ² (up to 176 g/m ² with postcards); Automatic duplexer: 60 to 163 g/m ² |
| RECOMMENDED MEDIA WEIGHT | 60 to 163 g/m ² (16 to 43 lb) |
| DUTY CYCLE (MONTHLY, LETTER)⁴ | Up to 40,000 pages |
| RECOMMENDED MONTHLY PAGE VOLUME⁵ | Up to 750 to 2,000 pages |
| DISPLAY | 2-line LCD (text) |
| MAXIMUM/STANDARD MEMORY | 384 MB/128 MB |
| PAPER HANDLING | 50-sheet multipurpose tray, 250-sheet input tray 2, 150-sheet output bin Input Capacity (Standard): Up to 300 Sheets, Up to 50 transparencies, Up to 10 envelopes Input Capacity (Maximum): Up to 550 Sheets (with optional tray 3) Output Capacity: Up to 150 Sheets, Up to 50 transparencies, Up to 20 envelopes |
| PROCESSOR | Processor Type: ARM1176; Processor Speed: 600 MHz |
| SOFTWARE INCLUDED | Windows: HP Installer/Uninstaller, HP PCL 6 print driver, Status Alerts, HP Update, DXP; Mac: HP Installer/Uninstaller, HP Postscript driver, HP Setup Assistant, HP Utility, HP Alerts, HP Firmware Updater |

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| MINIMUM SYSTEM REQUIREMENTS | PC: Microsoft® Windows® 7 (32-bit/64-bit), Windows Vista® (32-bit/64-bit): 1 GHz 32-bit (x86) or 64-bit (x64) processor, 1 GB RAM (32-bit) or 2 GB RAM (64-bit), 400 MB free hard disk space, CD/DVD-ROM or Internet, USB or Network port; Windows® XP (32-bit) SP2: Pentium® 233 MHz processor, 512 MB RAM 400 MB free hard disk space, CD/DVD-ROM or Internet, USB or Network port; Mac: Mac OS X v 10.5, v 10.6, PowerPC G4, G5, or Intel® Core™ Processor, 500 MB hard disk, CD-ROM/DVD-ROM or Internet, USB or Network port |
| COMPATIBLE OPERATING SYSTEMS | Full software installs supported on: Microsoft® Windows® 7 32-bit and 64-bit, Windows Vista® 32-bit and 64-bit, Windows® XP 32-bit (SP2 or higher); Driver only installs supported on: Microsoft® Windows® Server 2008 32-bit and 64-bit, Windows® Server 2003 32-bit (SP3 or higher); Mac OS X v 10.5, v 10.6; Linpus Linux (9.4, 9.5), Red Hat Enterprise Linux 5.0 (supported with a pre-built package); SUSE Linux (10.3, 11.0, 11.1, 11.2), Fedora (9, 9.0, 10, 10.0, 11.0, 11, 12, 12.0), Ubuntu (8.04, 8.04.1, 8.04.2, 8.10, 9.04, 9.10, 10.04), Debian (5.0, 5.0.1, 5.0.2, 5.0.3) (supported by the automatic installer); HPX 1 and Solaris 8/9 |
| OPERATING ENVIRONMENT | Operating Humidity Range: 10 to 80% RH (non-condensing); Recommended Humidity Operating Range: 20 to 70% RH (non-condensing); Operating Temperature Range: 15 to 30° C (59 to 86° F); Recommended Operating Temperature Range: 15 to 27° C (59 to 80.6° F); Storage Temperature Range: -20 to 40° C (-4 to 104° F); Non-Operating Humidity: 10 to 95% RH (non-condensing) |
| ACOUSTIC⁶ | Acoustic Power Emissions: 6.5 B(A); Acoustic Power Emissions (Ready): 4.1 B(A); Acoustic Pressure Emissions Bystander (Active, Printing): 51 dB(A); Acoustic Pressure Emissions Bystander (Ready): 27 dB(A) |
| POWER | Power Requirements: Input voltage: 110 to 127 VAC (+/- 10%), 60 Hz (+/- 3 Hz); 220 to 240 VAC (+/- 10%), 50 Hz (+/- 3 Hz); Power Supply Type: Internal (Built-in) power supply; Power Consumption⁷: 425 watts (Active), 15.2 watts (Ready), 4.0 watts (Sleep), 0.5 watts (Off); Typical Electricity Consumption (TEC) Number: 1.509 kWh/Week |
| PRODUCT DIMENSIONS | W x D x H: 405 x 484 x 322 mm (15.9 x 19.1 x 12.7 in) Maximum: 405 x 689 x 322 mm (15.9 x 27.1 x 12.7 in) |
| PRODUCT WEIGHT | 23.64 kg (52.1 lb) |
| SECURITY MANAGEMENT | Wireless: WEP (128 bit), WPA/WPA2 - Personal (AES, TKIP); Embedded Web Server: password-protection, secure browsing via SSL/TLS; Network: enable/disable network ports and features, SNMPv1 community password change; HP ePrint: HTTPS with certificate validation, HTTP Basic Access Authentication, SASL authentication |
| WHAT'S IN THE BOX⁸ | Printer, Four preinstalled introductory HP LaserJet toner cartridges (yield ~ 1,400 pages), In-box documentation (Hardware installation guide), Software drivers and documentation on CD-ROMs, Power cord, Built-in Automatic duplexer for two-sided printing, Built-in Wireless Card, USB cable, warranty card (Brazil) |
| WARRANTY REPLACEMENT CARTRIDGES⁹ | One-year limited warranty, return to HP or authorized service provider HP 305A Black LaserJet Toner Cartridge (~ 2,200 pages), CE410A HP 305X Black LaserJet Toner Cartridge (~ 4,000 pages), CE410X HP 305A Cyan LaserJet Toner Cartridge (~ 2,600 pages) CE411A HP 305A Yellow LaserJet Toner Cartridge (~ 2,600 pages) CE412A HP 305A Magenta LaserJet Toner Cartridge (~ 2,600 pages) CE413A |
| ACCESSORIES | HP LaserJet 250-sheet Paper Feeder, CF106A HP 256 MB DDR2 144-pin DIMM, CB423A HP Jetdirect ew2500 802.11b/g Wireless Print Server J8021A |
| HP CARE PACK SERVICES | HP 3-year NBD Color LaserJet M451 Hardware Support, U1H90A HP 1-year Post Warranty NBD Color LaserJet M451 Hardware Support, U1H96PA HP 1-year Post Warranty NBD Exchange Color LaserJet M451 Service, U1H98PA |

FOR MORE INFORMATION VISIT OUR WEBSITE AT WWW.HP.COM

HP LASERJET PRO 400 COLOR M451dw Product Number: CE958A
ENERGY STAR® qualified models; see <http://www.hp.com/go/energystar>

¹Measured 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. ²Exact speed varies depending on the system configuration, software application, driver and document complexity. ³HP SureSupply alerts you when your print cartridge is running low and helps you purchase online or locally through HP or a participating retailer. Only available with Original HP supplies; Internet access required. To learn more, visit <http://www.hp.com/go/SureSupply>. ⁴Duty 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. ⁵HP recommends that the number of printed pages per month be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period. ⁶Values are subject to change. For current information see Product Support page at <http://www.hp.com/support>. Configuration tested: simplex, mono. ⁷Power 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. ⁸Introductory cartridges included; yields ~ 1,400 color composite (C/Y/M) and black pages. Actual yields vary considerably based on images printed and other factors. For details see <http://www.hp.com/go/learnaboutsupplies>. ⁹Ships with preinstalled introductory print cartridges (yield ~ 1,400 pages).