Data sheet

HP Officejet Pro X451dw Printer

A printing revolution—quality colour at twice the speed,[1] half the cost[2]

Boost workgroup efficiency with this high productivity, next generation wireless printer. Print professional-quality colour at up to twice the speed[1] and half the cost per page of colour lasers[2] using HP PageWide Technology.

Print speed: Up to 36 ppm black ISO (A4); Up to 36 ppm colour ISO (A4)
Paper handling: Automatic 2-sided printing
Duty cycle: Up to 50,000 pages (A4)
RMPV: 500 to 4000 pages (print)

HP PageWide Technology

Automatic 2-sided printing

Mobile printing

Wireless

Ethernet

Print at up to twice the speed[1] and half the cost per page[2] of colour lasers.

- Produce quality prints with Original HP inks and save up to 50% on printing costs versus colour lasers.[2]
- Print at up to twice the speed of lasers with the same HP PageWide Technology used in top-end digital presses.[1]
- Get more done with productivity-enhancing features including new General Office mode (55 ppm) and duplex printing.
- Choose HP for reliable workgroup printing – designed for volumes of up to 2,800 pages a month.

Give workgroups the power to do more with this easy-to-manage printer.

- Access print tools and tasks quickly and easily via the inituitive control panel and clear graphic display.
- Control settings and monitor status remotely with industry-leading management tools like HP Web Jetadmin.
- Stay productive – print up to 9,200 pages per cartridge[4] and load up to 1,050 sheets at once with the optional paper tray.[5]
- Choose HP for reliable workgroup printing – designed for volumes of up to 2,800 pages a month.

Connect, print and stay productive – at the office or on the go.[3]

- Add this high performance printer to your wired or wireless corporate network for enhanced workgroup efficiency.
- Share the performance across workgroup members using notebooks, tablets and mobile devices[6] – even with no network or router.[7]
- Enjoy the flexibility of being able to print from smartphones or tablets from virtually anywhere with HP ePrint.[8]

Conserve resources without sacrificing performance.

- Control your costs – ENERGY STAR® qualified device uses up to 50% less energy than colour lasers.[9]
- Save up to 50% on paper with automatic two-sided printing, and maintain efficiency at breakthrough speeds.
- Conserve resources, using Original HP pigment inks that require less packaging than toner cartridges.
- Reduce your impact – easily recycle your Original HP ink cartridges for free through HP Planet Partners.[10]

Technical specifications

Print speed	Up to 36 ppm ISO black (A4); Up to 36 ppm ISO colour (A4); Up to 18 ipm duplex (A4) General Office (black) Up to 55 ppm; General Office (colour) Up to 55 ppm First page out: As fast as 9.5 sec black (A4, ready); As fast as 9.5 sec colour (A4, ready)
Print resolution	Up to 1200 x 1200 optimised dpi from 600 x 600 input dpi black; Up to 2400 x 1200 optimised dpi from 600 x 600 input dpi colour
Print technology	HP PageWide Technology with pigmented inks
Print Area	Print margins: Top: 4.2 mm; Bottom: 4.2 mm; Left: 4.2 mm; Right: 4.2 mm
Print languages	HP PCL 5c, HP PCL 6, native PDF, HP Postscript Level 3 emulation
Print capabilities	Borderless printing: No
Print cartridges number	4 (1 each black, cyan, magenta, yellow)
Mobile printing capability	HP ePrint, HP ePrint Mobile Apps, Google Cloud Print, HP ePrint Wireless Direct, Apple AirPrint™, Mopria-certified
Monthly duty cycle	Up to 50,000 pages (A4); Recommended monthly page volume: 500 to 4000
Automatic paper sensor	No
Processor speed	792 Mhz
Display	5.08cm MGD (Monochrome Graphic Display), 2 lights (ePrint, wireless), 9 buttons (display to control panel)
Wireless capability	Yes
Connectivity	Standard: 1 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Ethernet 10/100 Base-TX network; 802.11 b/g/n Station; 802.11 b/g Access Point: Optional: Support the following external Jetdirect servers; Print only: HP Jetdirect en1700 External Print Server (J7988G), HP Jetdirect en3700 Fast-Ethernet External Print Server for Network Capable Hi-Speed USB 2.0 Peripherals (J7942G), HP Jetdirect ew2400 802.11b/g wireless and Fast Ethernet external print server (USB 2.0, 10/100Base-TX, 802.11b/g) (J7951G), HP Jetdirect ew2500 802.11b/g Wireless Print Server (J8021A); Other supported accessories: Apple AirPort Express, Apple AirPort Extreme, Apple Airport TimeCapsule
Memory	Standard: 512 MB; Maximum: 512 MB
Media types	Plain paper (light, intermediate, mid-weight, heavy, extra heavy, prepunched, recycled, bond, other inkjet plain paper); HP Advanced Photo papers (glossy, gloss, soft gloss, satin, matte, other inkjet photo); envelopes; labels; cards; HP Brochure Matte; and other HP inkjet specialty paper (glossy brochure, matte brochure, tri-fold brochure, Hagaki, greeting cards, other inkjet specialty paper)
Media sizes	Tray 1: A4; A5; A6; B5 (JIS); B6 (JIS); 10 x 15 cm; L; envelopes (B5; C5; C6; DL). Tray 2: A4; A5; B5 (JIS); envelopes (B5; C5; DL). Tray 3: A4; A5; B5 (JIS); Custom: Tray 1: 76 x 127 to 216 x 356 mm; Tray 2: 102 x 210 to 216 x 297 mm; Tray 3: 102 x 210 to 216 x 356 mm
Media Handling	Input standard: 500-sheet input tray, 50-sheet multi-purpose tray; Maximum envelopes: Up to 37 envelopes Output standard: 300-sheet face-down output bin; Maximum: Up to 300 sheets Duplex printing: Automatic (standard)
Memory card compatibility	None
Printer smart software features	HP ePrint, Mobile Apps, Google Cloud Print, HP EasyColor, print preview, automatic two-sided printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, booklet printing, cover pages, tray selection, scaling, Portrait/Landscape orientation, High Quality Greyscale and Black Ink Only, General Office/Professional/Presentation/Maximum dpi print modes, wireless, Auto-off
Printer management	HP Web Jetadmin; Embedded Web Server; HP Driver Configuration Utility; HP Driver Deployment Utility; HP Utility (Mac)
Security management	SSL/TLS (HTTPS); IPP over TLS (port 443 – excludes Airprint); Device firewall configuration; Control panel lock; Password protect EWS; Unused protocol and service disablement; Syslog; Certificate support; Signed firmware; Administrator settings; Compatible with HP Access Control Express

What's in the box	**CN463A** HP Officejet X451dw Printer; HP 970 Setup Black Officejet Ink Cartridge; HP 971 Setup Officejet Ink Cartridges (Cyan, Magenta, Yellow); printer software and user's guide on CD-ROM; getting started guide; setup poster; power cable; USB cable
Accessories	**CN595A** HP Officejet Pro X-Series 500-sheet Tray
Supplies	**CN625AE** HP 970XL High Yield Black Original Ink Cartridge 9200 pages **CN626AE** HP 971XL High Yield Cyan Original Ink Cartridge 6600 pages **CN627AE** HP 971XL High Yield Magenta Original Ink Cartridge 6600 pages **CN628AE** HP 971XL High Yield Yellow Original Ink Cartridge 6600 pages **CN621AE** HP 970 Black Original Ink Cartridge 3000 pages **CN622AE** HP 971 Cyan Original Ink Cartridge 2500 pages **CN623AE** HP 971 Magenta Original Ink Cartridge 2500 pages **CN624AE** HP 971 Yellow Original Ink Cartridge 2500 pages **C6818A** HP Professional Glossy Inkjet Paper-50 sht/A4/210 x 297 mm **Q6593A** HP Professional Matt Inkjet Paper-200 sht/A4/210 x 297 mm **CHP210** HP Printing Paper-500 sht/A4/210 x 297 mm Average based on ISO/IEC 24711 or HP testing methodology and continuous printing. Actual yield varies considerably based on content of printed pages and other factors. Some ink from included cartridge is used to start up the printer. For information on page yield, visit www.hp.com/go/learnaboutsupplies, or see product packaging
Compatible operating systems	Windows 8, Windows 7, Windows Vista, Windows XP (SP3, 32-bit), Mac OS X v10.6, Mac OS X Lion, Mac OS X Mountain Lion, Linux (hplip.net)
Minimum system requirements	Windows: Windows 8, Windows 7: 1 GHz 32-bit (x86) or 64-bit (x64) processor, 2 GB hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer; Windows Vista: 800 MHz 32-bit (x86) or 64-bit (x64) processor, 2 GB hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer; Windows XP (SP3) or higher (32-bit only): any Intel® Pentium® II, Celeron® or compatible processor, 233 MHz or higher, 750 MB hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 6 or higher; Linux: For more information, see hplip.net; SAP: For more information see hp.com/go/sap/drivers Mac: Mac OS X v10.6, OS X Lion, OS X Mountain Lion; Intel® Core™ processor; 1 GB available hard disk space; CD-ROM/DVD drive or Internet connection; USB port
Software included	Windows Installer and discrete PCL 6 driver; Mac Installer and PS driver; HP Update; HP Participation Study; Bing Toolbar; HP Smart Print
Media weight	Tray 1: 60 to 120 g/m² (plain paper); 125 to 300 g/m² (photo); 75 to 90 g/m² (envelope); 120 to 180 g/m² (brochure); 163 to 200 g/m² (card). Tray 2: 60 to 120 g/m² (plain paper); 125 to 250 g/m² (photo); 75 to 90 g/m² (envelope); 120 to 180 g/m² (brochure); 163 to 200 g/m² (card). Tray 3: 60 to 120 g/m² (plain paper); 125 to 250 g/m² (photo); 120 to 180 g/m² (brochure); 163 to 200 g/m² (card) Media Weight Recommended: 60 to 120 g/m² (plain paper); 125 to 300 g/m² (photo); 75 to 90 g/m² (envelope); 120 to 180 g/m² (brochure); 163 to 200 g/m² (card)
Printer dimensions (W x D x H)	517 x 399 x 380 mm
Package dimensions (W x D x H)	600 x 495 x 492 mm
Printer Weight	17.1 kg
Package weight	20.5 kg
Storage	Temperature: -40 to 60ºC, Humidity: 5 to 90% RH
Acoustics	Acoustic power emissions: 6.8 B(A); Acoustic pressure emissions: 54 dB(A) (black-and-white/colour printing), 15 dB(A) (idle)
Power	Requirements: Input voltage: 100 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz) Consumption: 100 watts (maximum), 70 watts average (printing), 9.5 watts (ready), 4.5 watts (sleep), 0.95 watts (auto-off), 0.2 watts (manual-off) Power supply: Internal (Built-in) Universal Power Supply
Certifications	EU EMC Directive 2004/108/EC, CISPR 22: 2005+A1: 2005/EN 55022: 2006+A1: 2007 Class B, EN 55024: 1998+A1: 2001+A2: 2003, EN 61000-3-2: 2006+A1:2009+A2:2009, EN 61000-3-3: 2008, EN 301 489-1 v1.8.1: 2008, EN 301 489-17 v2.1.1: 2009 (Europe); other EMC approvals as required by individual countries; ENERGY STAR® qualified
Country of origin	Product of China
Warranty	Standard one-year HP limited hardware warranty. Warranty and support options vary by product, country and local legal requirements.
Service and support	**U6Z52E** HP 3 year Next Business Day Onsite Exchange OfficeJet Pro X451/X551 Service **U4ZY0E** HP 4 year Next Business Day Onsite Exchange OfficeJet Pro X451/X551 Service **U4ZY1E** HP 5 year Next Business Day Onsite Exchange OfficeJet Pro X451/X551 Service **U6Z55PE** HP 1 year Post Warranty Next Business Day Onsite Exchange OfficeJet Pro X451/X551 Service **U1XS7E** HP 3 year Next Business Day OfficeJet Pro X451/X551 Hardware Support **U1XS9E** HP 4 year Next Business Day OfficeJet Pro X451/X551 Hardware Support **U1XT0E** HP 5 year Next Business Day OfficeJet Pro X451/X551 Hardware Support **U1XU3PE** HP 1 year Post Warranty Next Business Day OfficeJet Pro X451/X551 Hardware Support

Footnotes

[1]Comparison based on manufacturers' published specifications of fastest available colour mode (as of August 2013) and includes colour laser MFPs < €1,000 and colour laser printers < €800 as of August 2013, based on market share as reported by IDC as of Q2 2013 and HP internal testing of printer in fastest available colour mode (sample 4-page category documents tested from ISO 24734). For more information, see http://www.hp.com/go/printerclaims. [2]Cost per page (CPP) claim is based on the majority of colour laser MFPs < €1,000 and colour laser printers < €800 as of August 2013, based on market share as reported by IDC as of Q2 2013. CPP comparisons for laser supplies are based on published specifications of the manufacturers' highest capacity cartridges. HP Officejet Pro X CPP based on HP 970XL/971XL ink cartridges' estimated street price, published yield for colour prints and continuous printing in default mode. Actual prices may vary. Actual yields may vary based on printer used, images printed and other factors. For more information, see http://www.hp.com/go/learnaboutsupplies. [3]Requires an Internet connection to an HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types, and other HP ePrint details, see http://www.hpconnected.com). Mobile devices require Internet connection and email capability. May require wireless access point. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary. [4]Page volume based on HP 970XL black ink cartridge. [5]Capacity up to 1,050 sheets with optional 1x500 sheet accessory paper tray not included; please purchase separately. [6]Local printing requires mobile device and printer to be on the same network or have a direct wireless connection to the printer. Wireless performance is dependent on physical environment and distance from access point. Wireless operations are compatible with 2.4 GHz operations only. Remote printing requires an Internet connection to an HP web-connected printer. App or software and HP ePrint account registration may also be required. Wireless broadband use requires separately purchased service contract for mobile devices. Check with service provider for coverage and availability in your area. See http://www.hp.com/go/mobileprinting for more details. [7]Mobile device must be directly connected to the printer's wireless network prior to printing. Depending on mobile device, an app or driver may also be required. Wireless performance is dependent on physical environment and distance from the access point in the printer. [8]Requires an internet connection to an HP ePrint-enabled printer. Printer requires ePrint account registration. App or software may be required. Wireless operations are compatible with 2.4 GHz operations only. Print times and connection speeds may vary. Wireless broadband use requires separately purchased service contract for mobile devices. Check with service provider for coverage and availability in your area. Learn more at http://www.hp.com/go/mobileprinting. [9]Majority of colour laser printers <€800 excluding VAT as of August 2012, Officejet Pro with highest-capacity cartridges. Energy use based on HP testing. Actual cost and energy usage may vary. For details, see http://www.hp.com/go/officejet. [10]Programme availability varies. Original HP cartridge return and recycling is currently available in 47 countries, territories, and regions in Asia, Europe, and North and South America through the HP Planet Partners programme. For more information, visit http://www.hp.com/recycle.

http://www.hp.com/uk

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