HP Officejet Pro X451dw Printer

Ideal for small to medium-size business work teams that need professional-quality, low cost per page printing at breakthrough speed, with the flexibility of wireless/mobile connectivity and web-based printer management.

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

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]

---

[1]Comparison based on manufacturers' published specifications of fastest available colour mode (as of March 2012) and includes colour laser MFPs <€1,000 and colour laser printers <€800 excluding VAT as of March 2012, based on market share as reported by IDC as of Q1 2012 and HP internal testing of printer in fastest available colour mode (sample 4-page category documents tested from ISO 24734). For more information, see www.hp.com/go/printerspeeds.

[2]Cost per page (CPP) claim is based on the majority of colour laser MFPs <€1,000 and colour laser printers <€800 excluding VAT as of March 2012, ISO yield based on continuous printing in default mode based on market share as reported by IDC as of Q1 2012. CPP comparisons for laser supplies are based on published specifications of the manufacturers' cartridges with similar available capacities. CPP based on HP 970XL/971XL ink cartridges' estimated street price. Note that actual prices may vary. Actual yields may vary based on printer used, images printed and other factors. For more information, see 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 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]Wireless performance is dependent upon physical environment and distance from access point. Wireless operations are compatible with 2.4 GHz routers only.

[7]An app or driver may be required to use HP wireless direct, for more info go to www.hpconnected.com.

[8]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 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.

[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 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 www.hp.com/recycle.

TECHNICAL SPECIFICATIONS

Print Technology	HP Pagewide Technology with pigmented inks
Standard Printer Languages	HP PCL 5c, HP PCL 6, native PDF, HP Postscript Level 3 emulation
Print Speed	**Black (General Office):** Up to 55 ppm; **Black (ISO):** Up to 36 ppm; **First Page Out Black (A4, ready):** As fast as 9.5 sec; **Colour (General Office):** Up to 55 ppm; **Colour (ISO):** Up to 36 ppm; **First Page Out Colour (A4, ready):** As fast as 9.5 sec
Print Resolution	**Black (best):** Up to 1200 x 1200 optimised dpi from 600 x 600 input dpi; **Colour (best):** Up to 2400 x 1200 optimised dpi from 600 x 600 input dpi
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
Number Of Print Cartridges	4 (1 each black, cyan, magenta, yellow)
Duty Cycle	Monthly, A4: Up to 50,000 pages
Recommended Monthly Page Volume	500 to 2800
Print margins	**Top:** 4.2 mm; **Left:** 4.2 mm; **Bottom:** 4.2 mm; **Right:** 4.2 mm
Standard Connectivity	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
Network Capabilities	Standard (built-in Ethernet and WiFi 802.11b/g/n)
Supported Network Protocols	IPP (IPv4, IPv6); ARP (Legacy Default IP); BOOTP; SMTP client; LLMNR; Bonjour; LP/ APIPA (Auto IP); NetBIOS/WINS; LPR(SLP)/LPD; Custom Raw Port/Port9100; DNS Resolver; mDNS; SNMPv1; Web Services Discovery; Web Services Print; DHCP options: 81/RFC4702/RFC4704, 12-Hostname; 44; Syslog; Firewall; SSL/TLS (HTTPs); Password-protected network Embedded Web Server; Enable/disable network ports & device features; 802.1x wireless authentication (EAP-TLS, LEAP, and PEAP)
Wireless Capability	Yes
Mobile Printing Capability	HP ePrint, Mobile Apps, Google Cloud Print, Wireless direct printing, Apple AirPrint™
Wireless Technologies	802.11b/g/n
Control Panel	5.08cm MGD (Monochrome Graphic Display), 2 lights (ePrint, wireless), 9 buttons (display to control panel)
Standard Memory	512 MB
Maximum Memory	512 MB
Processor Speed	792 Mhz
Media Types Supported	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 Supported	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)
Media Sizes 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 Weight Supported	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)
Print Handling	500-sheet input tray, 50-sheet multi-purpose tray; 300-sheet face-down output bin; **Duplex Options:** Automatic (standard); **Envelope Feeder:** No; **Standard Paper Trays:** 2; **Input Capacities:** Maximum input capacity: Up to 1050 sheets, Up to 225 sheets photo paper, Up to 37 envelopes; **Output Capacities:** Maximum output capacity: Up to 300 sheets; Up to 50 sheets photo paper; Up to 35 envelopes

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** P 970XL Black Officejet Ink Cartridge Average cartridge yield 9200 pages **CN626AE** HP 971XL Cyan Officejet Ink Cartridge Average cartridge yield 6600 pages **CN627AE** HP 971XL Magenta Officejet Ink Cartridge Average cartridge yield 6600 pages **CN628AE** HP 971XL Yellow Officejet Ink Cartridge Average cartridge yield 6600 pages **CN621AE** HP 970 Black Officejet Ink Cartridge Average cartridge yield 3000 pages **CN622AE** HP 971 Cyan Officejet Ink Cartridge Average cartridge yield 2500 pages **CN623AE** HP 971 Magenta Officejet Ink Cartridge Average cartridge yield 2500 pages **CN624AE** HP 971 Yellow Officejet Ink Cartridge Average cartridge yield 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
Software Included	Windows Installer and discrete PCL 6 driver; Mac Installer and PS driver; HP Update; HP Participation Study; Bing Toolbar; HP Smart Print
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	**PC:** 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
Power	**Power Supply Type:** Internal (Built-in) Universal Power Supply **Power Requirements:** Input voltage: 100 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz) **Power 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) **Typical electricity consumption (TEC):** 0.60 kWh/Week
Acoustics	Acoustic Power Emissions: 6.8 B(A)
Operating Environment	**Operating Temperature Range:** 15 to 30°C **Recommended Operating Temperature:** 15 to 30°C **Non-Operating Humidity Range:** 5 to 90% RH **Operating Humidity Range:** 20 to 80% RH
Product 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; **Safety certifications:** IEC 60950-1: 2005 (2nd ed.)+ A1: 2009 (International); EN 60950-1: 2006+ A11: 2009+ A1: 2010+ A12: 2011, Compliance CE Marking to LVD 2006/95/EC, EC recommendation 1999/519/EC, IEC 62311:2007 / EN62311:2008, EN 62479: 2010, GS License (Europe); other safety approvals as required by individual countries; **ENERGY STAR:** Yes
Product Dimensions	W x d x h: 517 x 399 x 380 mm
Product Weight	17.1 kg
Warranty	Standard one-year HP limited hardware warranty. Warranty and support options vary by product, country and local legal requirements.
Country Of Origin	Product of China
Service And Support Options	**U6Z52E** - HP 3 year Care Pack with Next Business Day On Site Exchange for Officejet Pro X451/X551 Printers **U6Z55PE** - HP 1 year Care Pack with Post Warranty Next Business Day On Site Exchange for Officejet Pro X451/X551 Printers. U6Z52E/U6Z55PE: Check availability at country level

Count on dependable support to create the best image possible. We can help you enhance your printing and imaging environment, protect your IT investment, and grow your business—with expert support that's affordable, personal, and tailored to your needs through HP Care Pack Services.

For more information, visit our website at http://www.hp.com

HP Officejet Pro X451dw Printer CN463A