



# HP Officejet Pro X451/X551 color printer series

## X451dn • X451dw • X551dw

The next generation of printing is here. Looks and runs like a laser, but costs half as much per page.<sup>2</sup> Print up to twice the speed of laser<sup>1</sup>—using HP PageWide Technology. Help workgroups thrive with versatile functions and easy manageability tools.



(HP Officejet Pro X551dw color printer)



(HP Officejet Pro X451dn color printer)



(HP Officejet Pro X451dw color printer)

### Performs like a laser, costs half as much<sup>2</sup>

- Produce quality prints with Original HP inks, and save up to 50% on printing costs versus color lasers.<sup>2</sup>
- General office mode delivers quality prints at top speed with innovative HP PageWide Technology.<sup>3</sup>
- ENERGY STAR<sup>®</sup> certified—use up to 50% less energy than laserts.<sup>8</sup> Save paper with two-sided printing.
- Depend on HP for reliable workgroup printing—designed for high volumes up to 6000 pages a month (for X551dw only).

### Empower workgroups with an easy-to-manage ePrinter

- Simplify printing tasks with an easy-to-use control panel and graphic display.
- Remotely and easily manage your entire fleet with HP Web Jetadmin and HP's Universal Print Driver.
- Future-proof your investment with expandable HP JetAdvantage and partner solutions.<sup>14</sup>
- Protect your data via PIN printing with USB memory. Authorize access to device capabilities and color printing.<sup>9</sup>

### Built for business performance you can rely on

- In durability testing performed by Buyers Lab, over 150,000 pages were printed without jams or failure.<sup>13</sup>
- Print wirelessly from PCs, tablets, and smartphones,<sup>5</sup> and print from virtually anywhere with HP ePrint.<sup>6</sup>
- Print up to 9200 pages per cartridge<sup>11</sup> and load up to 1050 sheets at once with the optional paper tray.<sup>4</sup>

<sup>1</sup>Compared with Officejet Pro X series, majority of color laser MFPs < \$1000 USD and color laser printers < \$800 USD as of August 2013. Speed comparison based on ISO 24734 standard and manufacturers' published specifications of fastest available print mode based on market share as on ISO 24734 standard and manufacturers' published specifications of fastest available print mode. <sup>2</sup>Compared with the Officejet Pro X series, majority of color laser MFPs < \$1000 USD, and color laser printers < \$800 USD as of August 2013; market share as reported by IDC as of Q2 2013. Cost per page (CPP) comparisons for laser supplies are based on published specifications of the manufacturers' highest-capacity cartridges. CPP based on high-capacity HP ink supplies are based on published specifications of the manufacturers' highest-capacity cartridges. CPP based on high-capacity ink cartridges estimated street price and page yield. ISO yield based on continuous printing in default mode. For more information, see [hp.com/go/learnaboutsupplies](http://hp.com/go/learnaboutsupplies). <sup>3</sup>For more information, see [hp.com/go/printerspeeds](http://hp.com/go/printerspeeds). <sup>4</sup>Capacity up to 1050 sheets with optional 1x500 sheet accessory paper tray not included; please purchase separately. <sup>5</sup>Wireless performance is dependent on physical environment and distance from access point. Wireless operations are compatible with 2.4 GHz routers only. <sup>6</sup>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 [hpconnected.com](http://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. <sup>8</sup>Compared with the Officejet Pro X series, majority of color laser MFPs < \$1000 USD and color laser printers < \$800 USD as of August 2012; OJ Pro with highest-capacity cartridges. Energy use based on HP testing. For details, see [hp.com/go/officejet](http://hp.com/go/officejet). <sup>9</sup>Secure PIN printing requires USB flash drive sold separately and HP Universal Print Driver installed. <sup>11</sup>Page volume based on HP 970XL black ink cartridge. <sup>13</sup>Durability testing performed by Buyers Lab showing HP's Officejet Pro X551dw MFP completed a 150,000-impression test without failure. <sup>14</sup>Additional workflow solutions available through HP's software and third-party partner program. For solution details, go to [hp.com/go/gsc](http://hp.com/go/gsc)

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- 1 4.3" CGD (color graphics), touchscreen; rotating (adjustable angle) display; 6 buttons (Home, Back, Return, Help, Forward, Cancel); USB 2.0 port
- 2 Automatic two-sided printing
- 3 500-sheet input tray
- 4 50-sheet multi-purpose tray
- 5 300-sheet face-down output bin
- 6 On/Off Switch
- 7 Exclusive paper/supplies storage area
- 8 Pigment inks for water and fade resistant output
- 9 Built-in high-speed USB 2.0 port
- 10 Built-in wired Ethernet 10/100 Base-TX networking
- 11 792 Mhz processor, 512 MB standard memory
- 12 Front USB Port for easy access (X551 printer series only)

HP Officejet Pro X551dw color printer shown



## Series at a glance



	<b>X451dn</b>	<b>X451dw</b>	<b>X551dw</b>
<b>Part Number</b>	CN459A	CN463A	CV037A
<b>Print Speeds</b>	Up to 36 ppm letter	Up to 36 ppm letter	Up to 42 ppm letter
<b>Control Panel</b>	2" MGD (monochrome graphics), rotating (adjustable angle) display; 9 buttons (Home, Back, Cancel, Up, Select, Down, Help, Wireless, ePrint)	2" MGD (monochrome graphics), rotating (adjustable angle) display; 9 buttons (Home, Back, Cancel, Up, Select, Down, Help, Wireless, ePrint)	4.3" CGD (color graphics), touchscreen; rotating (adjustable angle) display; 6 buttons (Home, Back, Return, Help, Forward, Cancel); USB 2.0 port
<b>HP ePrint Capability</b>	✓	✓	✓
<b>External I/O Ports</b>	1 USB 2.0, 1 Host USB, 1 Ethernet	1 USB 2.0, 1 Host USB, 1 Ethernet, 1 Wi-Fi 802.11b/g/n	2 USB 2.0, 1 Host USB, 1 Ethernet, 1 Wi-Fi 802.11b/g/n
<b>Input Tray</b>	500-sheet input tray, 50-sheet multi-purpose tray	500-sheet input tray, 50-sheet multi-purpose tray	500-sheet input tray, 50-sheet multi-purpose tray
<b>Memory</b>	512 MB	512 MB	512 MB
<b>Automatic Two-sided Printing</b>	✓	✓	✓
<b>HP Auto Wireless Connect</b>	No	✓	✓
<b>ENERGY STAR® Qualified</b>	✓	✓	✓

# Top features

Looks and runs like a laser, but costs half as much per page.<sup>2</sup> Print up to twice laser speed.<sup>1</sup>

Print professional-quality documents for up to half the cost per page of color lasers<sup>2</sup> and up to twice the speed.<sup>1</sup> This reliable ePrinter delivers vivid color at breakthrough speeds—using HP PageWide Technology—to save you time and resources.

Manage settings and monitor status remotely with this reliable, workgroup-ready HP ePrinter. Simplify printing tasks with an easy-to-use graphic display. Reload supplies less often with high-capacity trays and high-yield ink cartridges.<sup>12</sup>

Enhance your productivity. Employees can send print jobs and move on with business—while relying on this ePrinter to handle the job. Like any HP printer, this ePrinter is built to last.

## Get the most out of your printer with HP accessories, supplies, and services.

**Default warranty:** One year, phone and web support. Advanced Onsite for product repair. Phone support provided by HP's commercial support organization.

**Care pack:** The HP Officejet Pro X451/X551 color printer series will provide HP's industry leading Care Pack service offerings. This includes 1 year and 3 year options for:

- Next Business Day Onsite
  - Return to HP
  - Standard Onsite
  - Post Warranty Onsite for extended service times
- Select the right HP Care Pack Service for your HP Officejet Pro X451/X551 at [hp.com/go/cpc](http://hp.com/go/cpc)

### Printers

HP Officejet Pro X451 dn	CN459A
HP Officejet Pro X451 dw	CN463A
HP Officejet Pro X551 dw	CV037A

### Ink cartridges

HP 970 Black Ink Cartridge (~3,000 pages)	CN621A
HP 971 Cyan Ink Cartridge (~2,500 pages)	CN622A
HP 971 Magenta Ink Cartridge (~2,500 pages)	CN623A
HP 971 Yellow Ink Cartridge (~2,500 pages)	CN624A
HP 970XL Black Ink Cartridge (~9,200 pages)	CN625A
HP 971XL Cyan Ink Cartridge (~6,600 pages)	CN626A
HP 971XL Magenta Ink Cartridge (~6,600 pages)	CN627A
HP 971XL Yellow Ink Cartridge (~6,600 pages)	CN628A

### Accessories

HP Officejet Pro X Series 500-sheet Paper Tray	CN595A
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### HP Care Pack Services

HP 3-year Next Business Day Officejet Pro 451/551 Hardware Support	U1X57E
HP 4-year Next Business Day Officejet Pro 451/551 Hardware Support	U1X59E
HP 5-year Next Business Day Officejet Pro 451/551 Hardware Support	U1XT0E
HP 3-year 4h 9x5 OJ Pro 451/551 Hardware Support	U1XT1E
HP 3-year 4h 13x5 OJ Pro 451/551 Hardware Support	U1XT2E

### Connectivity (printing 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, 10/100 Base-TX, 802.11b/g)	J7951G
HP Jetdirect ew2500 802.11b/g Wireless Print Server	J8021A

### Paper

[hp.com/go/paper](http://hp.com/go/paper)

### Software

HP Web Jetadmin: [hp.com/go/wja](http://hp.com/go/wja)  
HP Universal Print Driver: [hp.com/go/upd](http://hp.com/go/upd)

<sup>1</sup> Compared with Officejet Pro X series, majority of color laser MFPs < \$1000 USD and color laser printers < \$800 USD as of August 2013. Speed comparison based on ISO 24734 standard and manufacturers' published specifications of fastest available print mode based on market share as on ISO 24734 standard and manufacturers' published specifications of fastest available print mode. <sup>2</sup> Compared with the Officejet Pro X series, majority of color laser MFPs < \$1000 USD, and color laser printers < \$800 USD as of August 2013; market share as reported by IDC as of Q2 2013. Cost per page (CPP) comparisons for laser supplies are based on published specifications of the manufacturers' highest-capacity cartridges. CPP based on high-capacity HP ink supplies are based on published specifications of the manufacturers' highest-capacity cartridges. CPP based on high-capacity ink cartridges estimated street price and page yield. ISO yield based on continuous printing in default mode. For more information, see [hp.com/go/learnabouthsupplies](http://hp.com/go/learnabouthsupplies). <sup>12</sup> Unattended printing and longer print cycles are based on a comparison with standard-capacity Original HP 970/971 ink cartridges. Optional Original HP high-yield 970/971 ink cartridges are not included. Please purchase separately.

# HP Officejet Pro X451/X551 color printer series

Technical specifications	HP Officejet Pro X451dn Printer (CN459A)	HP Officejet Pro X451dw Printer (CN463A)	HP Officejet Pro X551dw Printer (CV037A)
<b>Print</b>			
Duplex Print Options	Automatic (standard)		
Print Speed <sup>1</sup>	<b>ISO Speed:</b> Up to 36 ppm black, Up to 36 ppm color; <b>Maximum Print Speed:</b> Up to 55 ppm black, Up to 55 ppm color		<b>ISO Speed:</b> Up to 42 ppm black, Up to 42 ppm color; <b>Maximum Print Speed:</b> Up to 70 ppm black, Up to 70 ppm color
First Page Out	<b>Black (ready):</b> As fast as 9.5 sec; <b>Color (ready):</b> As fast as 9.5 sec		
Print Resolution	<b>Black (best):</b> Up to 1200 x 1200 optimized dpi from 600 x 600 input dpi (on Unspecified, Plain, HP Premium Presentation Matte, and HP Brochure Matte); <b>Color (best):</b> Up to 2400 x 1200 optimized dpi from 600 x 600 input dpi (on HP Advanced Photo Papers)		
Print Technology	HP PageWide Technology with pigmented inks		
Print Cartridges Number	4 (1 black, cyan, magenta, yellow)		
Printer Smart Software Features	HP ePrint, 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 Grayscale and Black Ink Only, General Office/Professional/Presentation/Maximum dpi print modes; front USB port, copy/scan/fax; enable/disable Instant Ink Pro; Optional: wireless Auto-off only with X451dn/X451dw, front USB only with X551dw		
Mobile Printing Capability	HP ePrint, HP ePrint Mobile Apps, Google Cloud Print, HP ePrint Wireless Direct, Apple AirPrint™, Mopria-certified		
Borderless Printing	No		
Standard Print languages	HP PCL5c, HP PCLXL (PCL6), native PDF, HP Postscript Level 3		
Printer Management	HP Web Jetadmin; Embedded Web Server; HP Driver Configuration Utility; HP Driver Deployment Utility; HP Utility (Mac)		
<b>Connectivity</b>			
Standard Connectivity	1 Hi-Speed USB 2.0 Host (X451); 1 Hi-Speed USB 2.0 Device; 1 Ethernet 10/100 Base-TX network	1 Hi-Speed USB 2.0 Host (X451); 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	2 Hi-Speed USB 2.0 Host (X551); 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)	Standard (built-in Ethernet and Wi-Fi 802.11b/g/n)	
<b>Memory</b>	512 MB		
<b>Printer Drivers</b>	Windows PLC6 Discrete, Mac PS, Windows HP UPD, Linux, UNIX, SAP		
<b>Processor Speed</b>	792 Mhz		
<b>Duty Cycle (monthly)<sup>2</sup></b>	Up to 50,000 pages; <b>Recommended Monthly Page Volume:<sup>3</sup> 500 to 4200 pages</b>		Up to 80,000 pages; <b>Recommended Monthly Page Volume:<sup>3</sup> 1000 to 6000 pages</b>
<b>Paper handling</b>			
Input	500-sheet input tray, 50-sheet multi-purpose tray, Optional 500 sheet tray		
Output	300-sheet face-down output bin		
Media Type	Plain paper (light, intermediate, mid-weight, heavy, extra heavy, prepunched, bond, other inkjet plain paper), photo (glossy, gloss, soft gloss, satin, matte, other inkjet photo), envelopes, labels, cards, specialty papers (glossy brochure, matte brochure, tri-fold brochure, Hagaki, greeting cards, other inkjet specialty paper)		
Media Weight	<b>Tray 1:</b> 16 to 32 lb (plain paper); 33 to 80 lb (photo); 20 to 24 lb (envelope); 32 to 48 lb (brochure); 90 to 110 lb (card); <b>Tray 2:</b> 16 to 32 lb (plain paper); 33 to 66 lb (photo); 20 to 24 lb (envelope); 32 to 48 lb (brochure); 90 to 110 lb (card); <b>Tray 3:</b> 16 to 32 lb (plain paper); 33 to 66 lb (photo); 32 to 48 lb (brochure); 90 to 110 lb (card)		
Media Sizes Custom	<b>Tray 1:</b> 3 x 5 in to 8.5 x 14 in; <b>Tray 2:</b> 4.0 x 8.3 in to 8.5 x 11.7 in; <b>Optional Tray 3:</b> 4.0 x 8.3 in to 8.5 x 14 in		
<b>Dimensions</b>	<b>W x D x H:</b> 20.3 x 15.7 x 15 in (517 x 399 x 380 mm); <b>Max:</b> 26.7 x 26.4 x 15 in (678 x 670 x 380 mm) with MP tray down, main tray extended, output tray extension in legal position		<b>W x D x H:</b> 20.3 x 15.7 x 16.3 in (517 x 399 x 414 mm); <b>Max:</b> 26.7 x 26.4 x 17.6 in (678 x 670 x 446 mm) with MP tray down, main tray extended, output tray extension in legal position, control panel rotated to upright position
<b>Weight</b>	37.8 lb (17.1 kg)		
<b>What's in the box<sup>4</sup></b>	HP Officejet Pro X451dn Printer; HP 970 Setup Black Officejet Pro X Ink Cartridge (~3000 pages); HP 971 Setup Cyan Officejet Pro X Ink Cartridge; HP 971 Setup Magenta Officejet Pro X Ink Cartridge; HP 971 Setup Yellow Officejet Pro X Ink Cartridge (CMY composite ~2500 pages); power cord; installation guide; CD-ROMs (for Software, Windows and Mac printer drivers, and User's Guide)	HP Officejet Pro X451dw Printer; HP 970 Setup Black Officejet Pro X Ink Cartridge (~3000 pages); HP 971 Setup Cyan Officejet Pro X Ink Cartridge; HP 971 Setup Magenta Officejet Pro X Ink Cartridge; HP 971 Setup Yellow Officejet Pro X Ink Cartridge (CMY composite ~2500 pages); power cord; installation guide; CD-ROMs (for software, Windows and Mac printer drivers, and User's Guide)	HP Officejet Pro X551dw Printer; HP 970 Setup Black Officejet Pro X Ink Cartridge (~3000 pages); HP 971 Setup Cyan Officejet Pro X Ink Cartridge; HP 971 Setup Magenta Officejet Pro X Ink Cartridge; HP 971 Setup Yellow Officejet Pro X Ink Cartridge (CMY composite ~2500 pages); power cord; setup poster; installation guide; CD-ROMs (for software, Windows and Mac printer drivers, and User's Guide)
<b>Warranty Features</b>	One-year, onsite warranty, service and support; one-year technical support, chat, and e-mail		
<b>Systems</b>			
Compatible Operating Systems	Windows 10, 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 ( <a href="http://hplip.net">hplip.net</a> ) <b>Compatible Network operating systems:</b> 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, Windows 2003 Server (Standard Edition, Enterprise Edition, 32-bit & 64-bit), Windows 2003 Server R2 (Standard Edition, Enterprise Edition, 32-bit & 64-bit), Windows Small Business Server 2003 (32-bit & 64-bit), Windows 2008 Server (Standard Edition, Enterprise Edition, 32-bit & 64-bit), Windows 2008 Server R2 (Standard Edition, Enterprise Edition, 64-bit), Windows Small Business Server 2011, Windows Server 2012, Windows Cluster (Windows Server 2008 R2), Windows Terminal Services (Windows Server 2008 R2), Windows 2003 Server Terminal Services with Citrix Metaframe XP with Feature Release 3, Windows Server 2003 Terminal Services with Citrix Presentation Server 4.0/4.5, Windows Server 2008 Terminal Services, Windows Server 2008 Terminal Services with Citrix XenApp, Citrix (Print): Xen Server 5.6, Xen Desktop 5.5, Citrix XenApps 6.0, Citrix XenApp 6.5, Novell Netware 6/6.5/Open Enterprise Server 6.5 (Novell iPrint support only), Linux (For more information, see <a href="http://hplip.net">hplip.net</a> ), SAP (For more information, see <a href="http://hp.com/go/sap/drivers">hp.com/go/sap/drivers</a> ), UNIX		
Minimum System Requirements	<b>PC:</b> Windows 10, 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 <a href="http://hplip.net">hplip.net</a> ; SAP: For more information see <a href="http://hp.com/go/sap/drivers">hp.com/go/sap/drivers</a> <b>Mac:</b> 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		
<b>Control Panel</b>	2" MGD (monochrome graphics), rotating (adjustable angle) display; 9 buttons (Home, Back, Cancel, Up, Select, Down, Help, Wireless, ePrint)	4.3" CGD (color graphics), touchscreen; rotating (adjustable angle) display; 6 buttons (Home, Back, Return, Help, Forward, Cancel); USB 2.0 port	
<b>Software included</b>	Windows Installer and discrete PCL 6 driver; Mac Installer and PS driver; HP Update; HP Participation Study; Bing Toolbar; HP Smart Print		

## Environmental ranges

Recommended Operating Temperature:	59 to 86°F (15 to 30°C)
Non-Operating Humidity Range:	5 to 90% RH
Operating Humidity Range:	20 to 80% RH
Operating Altitude:	Up to 10,000 ft (Up to 3048 m)
Storage Temperature:	-40 to 140° F (-40 to 60° C)
Storage Altitude (imperial):	15,000 ft

## Acoustic

Acoustic Power Emissions: <sup>5</sup>	6.8 dB(A)
Acoustic Pressure Emissions:	54 dB(A) (black-and-white/color printing), 15 dB(A) (idle)

## Power

Power Supply Type:	Internal (Built-in) Universal Power Supply
Power Supply required:	Input voltage: 100 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz)
Power Consumption: <sup>5</sup>	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) number:	0.60 kWh/Week

<sup>1</sup>Either after first page or after first set of ISO test pages. For details see [hp.com/go/printerclaims](http://hp.com/go/printerclaims). <sup>2</sup>Duty 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. <sup>3</sup>HP 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. <sup>4</sup>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 details see [hp.com/go/learnaboutsupplies](http://hp.com/go/learnaboutsupplies). <sup>5</sup>Acoustic values are subject to change. For current information see [hp.com/support](http://hp.com/support). Configuration tested: M575f model, simplex printing, A4 paper at an average of 30 ppm. <sup>6</sup>Power measurements are based on ENERGY STAR® TEC test procedure with 230 VAC, 50 Hz input.



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