The next generation of printing is here. Print professional-quality color—up to twice the speed¹ and half the cost per page of color lasers²—using HP PageWide Technology. Help workgroups thrive with proactive manageability tools.

Up to twice the speed¹ and half the cost² of lasers
• Produce quality prints with Original HP inks, and save up to 50% on printing costs versus color lasers²
• Print at record speeds—certified by Guinness World Records as the world’s fastest desktop printer³
• New General Office mode delivers high-quality prints at top speeds while saving ink, time, and money
• Print brilliantly at breakthrough speed with the same HP PageWide Technology found in top-end digital presses

Empower workgroups with an easy-to-manage ePrinter
• Proactively manage this device and remotely monitor status with industry-leading tools like HP Web Jetadmin
• Simplify printing tasks with an easy-to-use control panel and graphic display
• Print up to 9,200 pages per cartridge¹⁰ and load up to 1,050 sheets at once with the optional paper tray⁴
• Depend on HP for reliable workgroup printing—designed for high volumes up to 4,200¹¹ pages a month

Connect and print—at the office or on the go⁶
• Print wirelessly, and share access with PCs, tablets, and mobile devices—even with no network or router⁷
• Print from your smartphone or tablet from virtually anywhere with HP ePrint⁶
• Add this ePrinter to your office Ethernet network to easily share with your workgroup
• Walk up and print right away, using the easy-access USB port. Print files directly from your thumb drive

Conserve resources without sacrificing performance
• Keep costs in line. This ENERGY STAR® qualified device uses up to 50% less energy than color lasers⁴
• 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 Partners⁹

¹ Comparison based on manufacturers’ published specifications of fastest available color mode (as of March 2012) and includes color laser MFPs <$1,000 USD MSRP and color laser printers <$800 USD MSRP available March 2012, based on market share as reported by IDC as of Q1 2012 and HP internal testing of printer in fastest available color mode (sample 4-page category documents tested from ISO 24734). For more information, see hp.com/go/printer speeds. ² Cost per page (CPP) claim is based on the majority of color laser MFPs <$1,000 USD MSRP and color laser printers <$800 USD MSRP as of March 2012, 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’ highest-capacity cartridges. CPP based on HP 970XL/971XL ink cartridges’ estimated street price. For more information, see hp.com/go/learnaboutsupplies. ³ Guinness World Record for fastest time to print 500 sheets by an office color desktop printer, April 2012. Record set on HP X551dw and X556dw models. Details at guinnessworldrecords.com. Record supervised and verified by wirthconsulting.org. Test documents ISO 24734 from sample 4-page category test file printed in fastest available color mode for all products. Competitive set includes laser and inkjet color desktop MFPs <$1,000 USD MSRP and printers <$800 USD MSRP available March 2012. ⁴ Capacity up to 1,050 sheets with optional 1x500 sheet access paper tray not included; please purchase separately. ⁵ Wireless performance is dependent upon physical environment and distance from access point. Wireless operations are compatible with 2.4 GHz routers only. ⁶ 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 hp.com/go/eprintcenter). 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. ⁷ An app or driver may be required to use HP wireless direct, for more info go to hp.com/go/eprintcenter. ⁸ Wireless performance is dependent upon physical environment and distance from access point. ⁹ Majority of color laser printers <$800 USD available August 2012. Officejet Pro with highest-capacity cartridges. Energy use based on HP testing. Actual cost and energy usage may vary. For details, see hp.com/go/officejet. ¹⁰ Program availability varies. Original HP cartridge return and recycling is currently available in the UK, Ireland, Germany, France, Italy, Spain, Portugal, Austria, Switzerland, the Czech Republic, Sweden, Denmark, Norway, and Finland. For more information, visit hp.com/recycle. ¹¹ Page volume is based on HP 970XL black ink cartridge. ¹² Page volume applies only to X551dw printer.
**HP Officejet Pro X451/X551 color printer series**

1. 4.3” color graphic display, touchscreen, rotating (adjustable angle) display, 6 buttons
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 10/100BaseTX networking
11. 792 Mhz processor, 512 MB standard memory
12. Front USB Port for easy access (X551 printer series only)

**Series at a glance**

<table>
<thead>
<tr>
<th></th>
<th>X451dn</th>
<th>X451dw</th>
<th>X551dw</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part Number</strong></td>
<td>CN459A</td>
<td>CN463A</td>
<td>CV037A</td>
</tr>
<tr>
<td><strong>Print Speeds</strong></td>
<td>Up to 36 ppm letter</td>
<td>Up to 36 ppm letter</td>
<td>Up to 42 ppm letter</td>
</tr>
<tr>
<td><strong>Control Panel</strong></td>
<td>2”mono graphic display, rotating (adjustable angle) display; 9 buttons</td>
<td>2”mono graphic display, rotating (adjustable angle) display; 9 buttons</td>
<td>4.3”color graphic display, touchscreen; rotating (adjustable angle) display; 6 buttons; USB 2.0 port</td>
</tr>
<tr>
<td><strong>HP ePrint Capability</strong></td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td><strong>External I/O Ports</strong></td>
<td>1 USB 2.0, 1 Host USB, 1 Ethernet</td>
<td>1 USB 2.0, 1 Host USB, 1 Ethernet, 1 WiFi 802.11b/g/n</td>
<td>2 USB 2.0, 1 Host USB, 1 Ethernet, 1 WiFi 802.11b/g/n</td>
</tr>
<tr>
<td><strong>Input Tray</strong></td>
<td>500-sheet input tray, 50-sheet multi-purpose tray</td>
<td>500-sheet input tray, 50-sheet multi-purpose tray</td>
<td>500-sheet input tray, 50-sheet multi-purpose tray</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>512 MB</td>
<td>512 MB</td>
<td>512 MB</td>
</tr>
<tr>
<td><strong>Automatic Two-sided Printing</strong></td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td><strong>HP Auto Wireless Connect</strong></td>
<td>No</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td><strong>ENERGY STAR® Qualified</strong></td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>
Top features

Up to twice the speed\(^1\) and half the cost per page of color lasers,\(^2\) with HP PageWide Technology.

Print professional-quality documents at up to twice the speed\(^1\) and half the cost per page of color lasers.\(^2\) This ePrinter delivers vivid color at breakthrough speeds to help you save time and resources. HP PageWide Technology makes it possible.

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.

Easily connect, print, and stay productive—at the office or on the go. Connect and share this device on your wireless\(^5\) or Ethernet network, and print from your smartphone or tablet from virtually anywhere.\(^4\) Even print straight from a thumb drive.

Use up to 50% less energy than color lasers\(^6\) with this ENERGY STAR\(^\circ\)-qualified ePrinter designed with the environment in mind. Save up to 50% on paper costs with automatic two-sided printing, and get free, easy cartridge recycling.\(^6\)

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

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Default warranty: One year, phone and web support. Advanced exchange 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 Exchange and Onsite
- Return to HP
- Standard Exchange
- Post Warranty Exchange and 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)

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Printers

- HP Officejet Pro X451dn	 CN459A
- HP Officejet Pro X451dw	 CN463A
- HP Officejet Pro X551dw	 CV037A

Ink cartridges

- HP 970 Black Ink Cartridge (~2,400 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

HP Care Pack Services

- HP 3y NBD Exchange Officejet Pro X451/X551 SVC	 U6Z51E
- HP 3y NDB Onsite Exchange Officejet Pro X451/X551 SVC	 U6Z52E
- HP 1y PW NBD Onsite Exchange Officejet Pro X451/X551 SVC	 U6Z55PE
- HP 1y PW NBD Exchange Officejet Pro X451/X551 SVC	 U6Z58PE

Connectivity (printing only)

- HP Jetdirect e11700 External Print Server	 J7988G
- HP Jetdirect e37000 Fast-Ethernet External Print Server for Network Capable Hi-Speed USB 2.0 Peripherals	 J7942G
- HP Jetdirect e2w400 802.11b/g wireless and Fast Ethernet external print server (USB 2.0, 1/10Base-TX, 802.11b/g)文物保护的联接），Wireless performance is dependent upon physical environment and distance from access point. Wireless operations are compatible with 2.4 GHz routers only. 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.\(^3\) Majority of color laser printers < $800 USD 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 [hp.com/go/officejet]. \(^4\) Program 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 program. For more information, visit [hp.com/recycle](http://hp.com/recycle).

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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)

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\(^1\) Comparison based on manufacturers’ published specifications of fastest available color mode (as of March 2012) and includes color laser MFPs < $1,000 USD MSRP and color laser printers < $800 USD MSRP 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 color mode (sample 4-page category documents tested from ISO 24734). For more information, see [hp.com/go/printerspeeds](http://hp.com/go/printerspeeds). \(^2\) Cost per page (CPP) claim is based on the majority of color laser MFPs < $1,000 USD MSRP and color laser printers < $800 USD MSRP 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’ highest-capacity cartridges. CPP based on HP 970XL/971XL ink cartridges’ estimated street price. For more information, see [hp.com/go/learnaboutsupplies](http://hp.com/go/learnaboutsupplies). \(^3\) Wireless performance is dependent upon physical environment and distance from access point. Wireless operations are compatible with 2.4 GHz routers only. 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. Majority of color laser printers < $800 USD 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 [hp.com/go/officejet]. \(^4\) Program 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 program. For more information, visit [hp.com/recycle](http://hp.com/recycle).
Print

Duplex Print Options
Automatic (standard)

Print Speed
ISO Speed: Up to 36 ppm black, up to 36 ppm color;
Maximum Print Speed: Up to 55 ppm black, up to 55 ppm color

First Page Out
Black (best): Up to 1200 x 1200 optimized dpi from 600 x 600 input dpi (on Epsonspecified, plain, HP Premium Presentation Matte, and HP Brochure Matte);
Color (best): 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 (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; 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, AirPrint™

Borderless Printing
No

Standard Print languages
HP PCL5c, HP PCL6, PCL XL, native PDF, HP PostScript Level 3

Printer Management
HP Web Jetadmin; Embedded Web Server; HP Device Configuration Utility; HP Driver Deployment Utility; HP Utility (Mac)

Connectivity
Standard Connectivity
1 Hi-Speed USB 2.0 Host (X451); 1 Hi-Speed USB 2.0 Device; 1 Ethernet 10/100 Base-TX network
2 Hi-Speed USB 2.0 Host (X551); 1 Hi-Speed USB 2.0 Device; 1 Ethernet 10/100 Base-TX network; 802.11b/g/n Access Point

Network Capabilities
Standard (built-in Ethernet) and WiFi 802.11b/g/n

Wireless Capability
No

Memory
512 MB

Processor Speed
792 MHz

Duty Cycle (monthly)¹
Up to 50,000 pages;
Recommended Monthly Page Volume: 500 to 2,200 pages
Up to 75,000 pages;
Recommended Monthly Page Volume: 1,000 to 4,200 pages

Paper handling
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, recycled, bond, other inkjet plain paper), photo (glossy, gloss, soft gloss, satin, matte, other photo inkjet), envelopes, labels, cards, specialty papers (glossy/dull, matte, matte brochure, tri-fold brochure, Happi, glossy brochure, other inkjet specialty paper)

Media Weight
Tray 1: 16 to 32 lb (plain paper); 33 to 60 lb (photo); 20 to 24 lb (envelope); 32 to 48 lb (Brochure); 90 to 110 lb (card)
Tray 2: 16 to 32 lb (plain paper); 33 to 60 lb (photo); 20 to 24 lb (envelope); 32 to 48 lb (Brochure); 90 to 110 lb (card)

Media Sizes Custom
Tray 1: 3.5 to 8.5 x 11.7 (10 environment), Optional Tray 3: 4.0 x 8.3 in 8.5 x 14 in

Dimensions
Max: 26.7 x 26.4 x 15 in (678 x 670 x 380 mm) with HP tray down, main tray extended, and tray extension in legal position

Weight
33.7 lb (15.3 kg)

What’s in the box²
HP Officejet Pro X-Series; HP 970 Setup Black/Color Ink Cartridge; HP 971 Setup Cyan/Magenta/Yellow Ink Cartridge; HP 971 Setup Yellow Inkjet; HP Inkjet Cartridge; HP 971 Setup Yellow Inkjet; Power cord; phone cord; installation guide; CD-ROM for software; Windows and Mac printer drivers, and User’s Guide; Setup poster (X551)

Warranty Features
One-year exchange warranty, service and support; one-year technical phone support, chat, and e-mail

Systems
Compatible Operating Systems
Microsoft Windows 7, 8, 8.1, 10 (32- and 64-bit); Mac OS X 10.6, Mac OS X 10.7, Mac OS X 10.8, Mac OS X 10.9, Mac OS X 10.10, Mac OS X 10.11, Linux (x86_64), Mac OS X 10.12, Mac OS X 10.13

Minimum System Requirements
PC: Microsoft Windows 7, 8, 8.1, 10; 32-bit or 64-bit OS; 2 GB or more RAM; 1 GB or more disk space; Adobe Reader or equivalent PDF reader software version 9 or later
Mac: Mac OS X 10.5 or later, 1 GB or more hard disk space, 1 GB of RAM; Operating System: Mac OS X 10.6 or later

Central Control
2" LCD (Monochrome Graphics); rotating (adjustable) display; 9 buttons; Home, Back, Cancel, Up, Select, Down, Help, Wireless, ePrint

Software included
Windows Installer and discrete PCL; 6 driver; Mac installer and PS driver; HP Update; HP Participation Study; Bing Toolbar; HP Smart Print

Security Management
Management security: SSL/TLS (HTTPS); IPP over TLS (port 443) – excludes AirPrint; Device Firewall configuration; Control panel lock; Password protect EWS; Unsecured protocol and service disabler; Syslog: Certificate support; Signed firmware; Administrator settings
Management security: SSL/TLS (HTTPS); IPP over wireless authentication (EAP-TLS, LEAP, and PEAP); IPP over TSL (port 443) – excludes AirPrint; Pre-Shared Key Authentication for Wireless (PSK); Device Firewall configuration; Control panel lock; Password protect EWS; Unsecured protocol and service disabler; Syslog: Certificate support; Signed firmware; Administrator settings

Environmental ranges
Recommended Operating Temperature: 50 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 Altitude (imperial): 15,000 ft

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: 100 Watts peak, 70W average (printing, max), 9.5W idle, 4.5W (Sleep), 0.95W (Sleep2), 0.2W (OFF)

Acoustic
Acoustic Power Emissions: 6.8 dB(A)

¹Either after first page or after first set of ISO test pages. For details see hp.com/go/printerdocs.
²Duty cycle is defined as the maximum number of pages per month of imaging 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. HP recommends that the number of pages per month be within the stated range for optimal device performance, based on factors including supplies replacement intervals and device life over an extended warranty period. Average based on ISO/IEC 24717 or HP testing methodology and continuous printing. Actual yield may vary considerably based on content of printed pages and other factors. Some ink from included cartridges is used to start up the printer. For details see hp.com/go/inkusage.
³Acoustic values are subject to change. For current information see hp.com/support. Configuration tested using HST75 model, simplex printing. All print at an average of 30 ppm. Power measurements are based on ENERGY STAR® test procedure with 230 VAC, 50 Hz input.

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