

Product guide



# Performs like a laser, costs half as much

HP Officejet Pro X451/X551 color printer series





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# Looks like a laser, runs like a laser—costs half as much

Forget everything you thought you knew about desktop printing. The HP Officejet Pro X451/X551 color printer series is not just a new line of printers, it's a fresh new office experience—engineered by HP from the ground up. In a fast-paced business world, you need a printer designed not just to keep up, but to set the pace. You'll be amazed at the host of thoughtful features we've included. And the star of the show: lightning-fast print speeds, made possible by the revolutionary HP PageWide Technology—the same type of print technology found in the top-end HP Inkjet Web Press. Not only will this device help you save ink and time, but you'll save money too—up to 50% on printing costs versus colour lasers.<sup>1</sup>

## Who can benefit?

This web-connected printer is ideal for environmentally-conscious professionals in small to medium-size work teams who need feature-rich, quality desktop colour printing at fast speeds, and low operating costs.



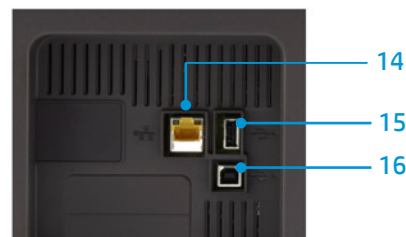
# Product walk around

- 1 X551dw: 10.9 cm touchscreen colour display  
X451dw: 5.1 cm mono graphic display control panel (not shown)
- 2 300-sheet output bin
- 3 Output bin extension
- 4 Paper/supplies storage area
- 5 500-sheet input tray 2 (optional 2nd 500-sheet tray 3 not shown)
- 6 Power On/Off button
- 7 792 MHz processor, 512 MB RAM<sup>2</sup>
- 8 Integrated automatic two-sided printing
- 9 50-sheet multipurpose tray with long paper extension
- 10 Front door allows convenient access to easy-to-replace ink cartridges
- 11 Single door access for clearing jams
- 12 Easy-access USB port to save and print files directly (X551dw only)
- 13 Integrated wireless networking<sup>3</sup>
- 14 Ethernet port, 10/100Base-TX
- 15 USB port for connecting 3<sup>rd</sup> party devices (X551dw only)
- 16 Hi-Speed host USB 2.0 port (for printing from computer)

HP Officejet Pro X551dw printer shown



Front view



Rear I/O panel close-up

## Series at a glance



HP Officejet Pro X451dw



HP Officejet Pro X551dw

Part number	CN463A	CV037A
<b>Print speed (black or colour)<sup>4</sup></b>	Up to 36 ppm Professional mode Up to 55 ppm General Office mode	Up to 42 ppm Professional mode Up to 70 ppm General Office mode
<b>Print resolution (black/colour)<sup>5</sup></b>	Up to 1200 x 1200 / 2400 x 1200 dpi	Up to 1200 x 1200 / 2400 x 1200 dpi
<b>Input capacity (standard/optional)<sup>6</sup></b>	550/1,050 (including MP tray)	550/1,050 (including MP tray)
<b>Recommended monthly page volume<sup>7</sup></b>	500 to 4,000	1,000 to 6,000
<b>Duty cycle (pages per month)<sup>8</sup></b>	Up to 50,000	Up to 80,000
<b>Control panel</b>	5.1 cm mono graphic display	10.9 cm colour touchscreen
<b>Ethernet print server</b>	10/100Base-TX	10/100Base-TX
<b>Wireless networking</b>	802.11b/g/n	802.11b/g/n
<b>ENERGY STAR<sup>®</sup> certified</b>	✓	✓

# Top features

Equip your office with this feature-rich, workgroup-ready desktop printer. You can boost productivity and enjoy high-performance professional colour output. Top features are highlighted below.



Professional  
colour for less

## Get professional, reliable colour printing at up to twice the speed<sup>9</sup> and up to half the cost per page of colour lasers<sup>1</sup>

- Get vivid colour at breakthrough speeds—new General Office mode delivers up to 70 pages per minute (ppm) in black or colour<sup>4</sup>—that's up to twice the speed of colour lasers.<sup>9</sup>
- Join the printing revolution with the world's fastest desktop printer.<sup>10</sup>
- Produce high-quality prints at top speeds while saving ink, time, and money—save up to 50% on printing costs versus colour lasers.<sup>1</sup>
- Maximise document impact—HP EasyColor manages settings to optimise results.
- Get laser-equivalent print quality with Original HP all pigment inks that are water-resistant and highlighter friendly.
- Archive with confidence—prints are durable with archive standard ISO 11798 certification.<sup>11</sup>
- Print brilliantly at blazing speed with the same HP PageWide Technology found in top-end digital presses.



Productivity  
features

## Help workgroups thrive with easy manageability, security and extensibility

- Proactively manage this device and remotely monitor status with industry-leading tools like HP Web Jetadmin, HP Embedded Web Server, and the HP Universal Print Driver.<sup>12</sup>
- Use the intuitive control panel for easy access to printer functions, including time-saving business apps (on the X551dw only).<sup>13</sup>
- Help keep the device and data secure with built-in security features and the ability to set security policies via HP Imaging and Printing Security Center.<sup>14</sup>
- Protect your hardware investment and extend capabilities with a portfolio of solutions including HP Capture and Route and HP Access Control.<sup>15</sup>



HP Mobile Printing

## Connect and print—at the office or on the go

- Print from virtually anywhere using a smart phone or tablet with HP ePrint.<sup>16</sup>
- Connect and share this device on your Ethernet or wireless network.<sup>3</sup>
- Walk up and print right away, using the easy-access USB port (X551dw only).
- Minimise interruptions—print up to 9,200 pages per cartridge<sup>17</sup> and load up to 1,050 sheets at once.<sup>6</sup>
- Depend on HP for reliable workgroup printing—designed for high volumes up to 4,200 pages a month (up to 2,800 for X451dw).



Up to 50% less  
energy use

## Conserve resources without sacrificing performance

- Save energy and maintain speed. This ENERGY STAR certified printer uses up to 50% less energy than lasers.<sup>18</sup>
- Use up to 50% less cartridge and packaging material as compared with colour lasers.<sup>19</sup>
- Use up to 50% less paper with automatic two-sided printing.
- Organise web content and stop printing content you don't want with the HP Smart Print tool (free download).<sup>20</sup>
- Reduce your impact—easily recycle your Original HP ink cartridges for free through HP Planet Partners.<sup>21</sup>

# Get up to twice the speed and up to half the printing cost of laser



HP PageWide  
Technology

## Vivid colour at breakthrough speeds

This printer delivers vivid colour at up to twice the speed of colour lasers to help you save time and resources.<sup>9</sup> When printing in general office mode, the printer produces full colour prints at up to a blistering 70 pages per minute.<sup>4</sup> And without the need to warm up any components, the first page gets printed fast, as quickly as 9.5 seconds.<sup>22</sup> HP PageWide Technology makes it all possible.

### World's fastest desktop printer<sup>10</sup>

This game-changing printer has been validated by WirthConsulting.org as the world's fastest desktop printer.<sup>10</sup> This is due to single-pass printing, made possible by the revolutionary HP PageWide Technology, explained in more detail on page 5.

## Quality prints at up to half the cost per page

When HP PageWide Technology is teamed up with HP pigment ink cartridges specially designed for use in this printer, the result is a winning combination of professional-quality colour prints at up to half the cost per page versus colour lasers.<sup>1</sup>

## HP EasyColor optimises results

Make a statement with high-impact, professional-quality colour documents. Use HP EasyColor to manage settings for maximum impact. HP EasyColor technology automatically improves mixed-content documents that are printed from Microsoft® Office programs. This technology scans documents and automatically adjusts photographic images in .JPEG or .PNG format. HP EasyColor technology enhances the entire image at one time, rather than dividing it into several pieces, which results in improved colour consistency, sharper details, and faster printing. You can expect glossy text, bold graphics, and vivid images. And, you can count on consistent colour—page after page, document after document, and ink cartridge after ink cartridge. Use the HP Universal Print Driver tools to manage colour use and protect your colour investment.<sup>12</sup>



Water-resistant  
prints

## Vibrant, water-resistant, durable inks

The HP 970/971 pigment ink cartridges used in this printer consistently deliver professional-quality, durable documents. You can print water-, smear-, and fade-resistant documents<sup>23,24</sup> that maintain quality for decades.<sup>25</sup> In addition, HP helps deliver an even greater value by enabling you to print more usable pages per cartridge than the competition.<sup>26</sup>

When you're ready to replace a cartridge, fulfill your expectations don't refill them. Original HP Ink cartridges deliver reliable, high quality prints that you just won't get from refilled cartridges. Plus, it's easy to choose the right ink cartridge for your budget—standard for a lower purchase price, or high-capacity for a better value. Receive low-ink alerts and maintain quality for the life of the cartridge with built-in intelligence. For cartridge part numbers, see Ordering information on page 14.

HP all-pigment inks offer vivid, highly saturated colours and bold blacks. They provide benefits over traditional dye-based inks, including superior water and fade resistance and better durability. These unique qualities are possible because the pigment solid does not dissolve in water but is dispersed to prevent pigment settling. As a result, the printed output resists rain, water spills, and highlighter-pen smearing, and you can handle important documents with confidence.

For even better print quality, we recommend papers with ColorLok® technology. ColorLok papers are engineered with special additives that result in faster drying time, and minimal show-through on your printed page, which means that you don't have to sacrifice readability or image quality when printing on both sides of the paper.

The printer supports a wide range of paper types, including HP Glossy and Matte Brochure media as well as advanced photo media and other inkjet specialty papers.

### Archive with confidence

This printer's ink has achieved ISO 11798 certification.<sup>11</sup> This rigorous standard ensures that printouts have a certified durability for wear and tear, often referred to as "archiveability." You can rest assured that the quality and readability of prints will remain high for years to come.

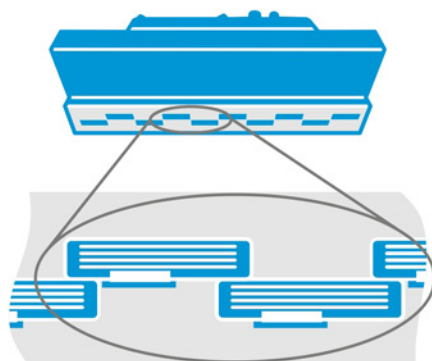
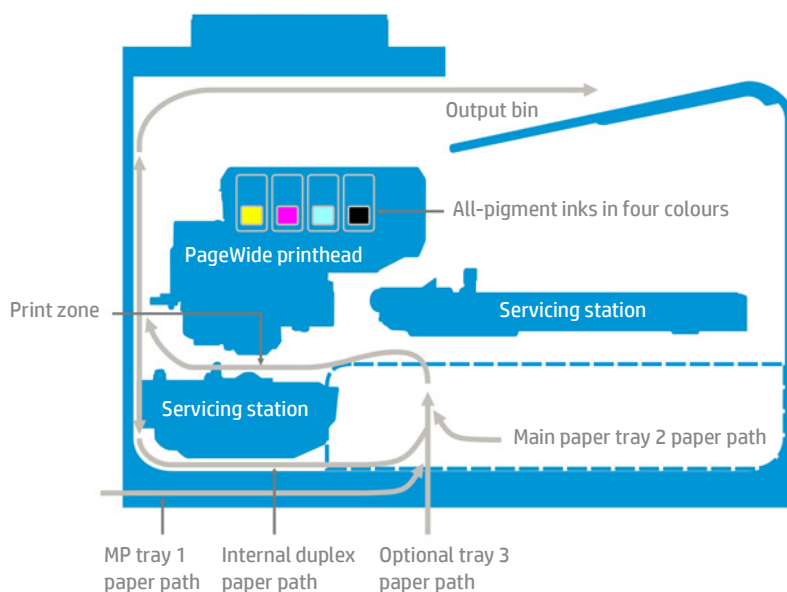
## Revolutionary HP PageWide Technology—how does it work?

HP PageWide Technology is the secret behind the exceptional speed and reliability of this amazing printer. The star player is a printhead that spans the entire width of the paper, enabling single-pass printing at blazing fast speeds. This is the same HP PageWide Technology found in top-end digital presses.

The printhead contains a massive number of tiny ink ejectors—over 40,000 of them positioned to span across the width of the page. As the paper passes under the printhead, ejectors release a minute drop of black or colour ink at precisely the right location to form the printed image. Unlike laser-based printers, where a laser beam must "write" a single dot at a time, or a conventional inkjet printer, which moves the print mechanism back and forth, the printhead, with its array of ink ejectors, remains stationary—only the paper is moving while ink is applied across the page.

The printer also performs continuous self-diagnosis, using special sensors to analyze the minuscule ink drops as they leave the printhead. It then calibrates the system accordingly. This calibration process is done in real time, resulting in optimised print quality at any given moment. All of these complex processes occur at a breathtaking pace, resulting in world's fastest desktop printer speeds.<sup>10</sup>

For a more detailed description of PageWide Technology, see the technical white paper at [hp.com/united-states/campaigns/officejet-pro-x/?jumpid=ex\\_r11400\\_go\\_officejetprox](http://hp.com/united-states/campaigns/officejet-pro-x/?jumpid=ex_r11400_go_officejetprox).



### PageWide printhead

Printhead contains an array of ten 4-colour dies.

Each die has 4,224 ink ejectors (1,200 per inch), 42,240 ink ejectors total.



# Help workgroups thrive with easy manageability



Remote printer management

## Manage devices remotely using your web browser

The HP Embedded Web Server (EWS) included in the printer provides a universal interface to the device that anyone with a network-connected computer and a standard web browser can easily access, regardless of the operating system. The EWS interface can be password-protected and is only available to users within the business or enterprise firewall. It requires no special software to install or configure. EWS allows you to display status information, change settings, and manage the printer from your computer.

EWS and HP Web Jetadmin work together to meet your product management needs. You can install and manage networked devices quickly and effectively. Network administrators can manage networked devices remotely, from practically anywhere.

The HP Embedded Web Server provides a simple, easy-to-use solution for one-to-one product management in environments that have a limited number of products. However, environments that have several products might want to use HP Web Jetadmin for group product management. With HP Web Jetadmin you can discover, manage, and configure multiple devices simultaneously. This solution lets you install, configure, monitor, and troubleshoot printing and imaging devices and supplies from anywhere on the network with a single tool. Loaded with new features and enhanced security, HP Web Jetadmin is faster and easier to use than ever. You can download the software free from [hp.com/go/wja](http://hp.com/go/wja).

## Simplify device interaction with an intuitive control panel

Use easy-to-access menus for managing the printer. Control panel menus assist in product setup, configuring network connections, specifying default paper sizes and tray selections, checking ink levels, and performing printer maintenance tasks.



Colour touchscreen

### Do even more with the 10.9 cm colour touchscreen

The bright and clear 10.9 cm colour graphic touchscreen on the X551dw will transform the way you use your printer. You can complete many common tasks without ever touching your computer.

### Tap and swipe for time-saving business apps

The X551dw gives you quick access to handy apps right from the touchscreen control panel.<sup>13</sup> These are special print applications available exclusively to HP web-enabled printing devices. Business apps connect your device to the Internet in an altogether new and seamless way. Choose from a growing library of apps that make printing faster, simpler, and more useful than ever. Access your documents and print them in one touch from the HP Officejet Pro X551 touchscreen colour display.



**10.9 cm touchscreen colour display (X551dw only)**

Select apps to:

- Keep commonly used business forms—invoices, contracts, receipts, and more—at your fingertips. Print them when you need them without a computer.<sup>13</sup>
- Quickly access and print web content.<sup>13</sup>

### Walk up and print using the easy-access USB port

The control panel on X551dw includes an easy-access USB port to print files directly from your thumb drive. Access saved documents or photos and print them quickly.



Easy-access USB



Print apps



Built-in security features

## Enhance security with built-in features

The printer features a number of options, such as enable and disable capabilities, to help secure itself against undesired access and to protect your data:

- **Control panel lock**—From the HP Embedded Web Server, network administrators can deter unauthorised users from changing certain device configurations and control panel settings by establishing a password and locking the control panel. The control panel lock setting itself can also be secured by setting the HP Embedded Web Server administrator password. The admin password must then be entered when accessing the control panel lock enable/disable setting.
- **Secure data**—SSL/TLS (HTTPS) for secure communications, password-protected Embedded Web Server, DHCP option 81/RFC4702 /RFC4704, stateless protocol, FQDN, device syslog and firewall configurations for user access control and policies.
- **Wireless authentication**—The HP Embedded Web Server provides the ability to configure wireless networking via such 802.1x wireless enterprise authentication protocols as EAP-TLS, LEAP, and PEAP to support access control. The HP Embedded Web Server also provides the ability to configure wireless dynamic key encryption such as WEP encryption and WPA-PSK authentication.
- **Enable/disable features**—You can easily enable and disable features such as Wireless Direct Authentication, IPv6, and HP ePrint.

# Connect and print—at the office or on the go

Create the crucial connection between your business and your documents. HP ePrint technology lets you print at your convenience using any Internet-capable printing device.



HP Mobile Printing

## Print from the web and mobile devices—without a computer<sup>16</sup>

HP ePrint technology liberates printing from your home or office by allowing you to print content while travelling or simply out and about from your smart phone, notebook computer, or mobile device.<sup>16</sup> And when you are in the office, the printer supports apps that let you quickly access online content, obtain documents, and print them fast and with less hassle—all without using a computer.<sup>13</sup> Because larger documents, presentations, and PDF files can be difficult to read on small, handheld device screens, you can print documents from your mobile device to read or take with you.

The printer is also Google™ Cloud Print ready, with no need for print drivers or additional software.<sup>27</sup> Simply register with your HP ePrint email address on Google's HP registration page ([google.com/cloudprint/learn/setup-hp.html](https://google.com/cloudprint/learn/setup-hp.html)).

Print from a variety of mobile devices on the go:

- Download the HP ePrint app from your provider and you're ready to print. Use your mobile device to locate the web-connected printer closest to you. Then simply print your documents and pick them up.
- Attach your document to an email message. Forward that message to a web-connected printer from your email-capable device and collect your printed document.
- Use Apple® AirPrint™ to easily print wirelessly from your iPad®, iPhone® or iPod touch®.<sup>28</sup>

## Share the printer easily with wired (Fast Ethernet) networking

Designed to be easy to share, the printer offers embedded wired networking capabilities that allow you to connect the printer directly to a 10/100Base-TX Fast Ethernet network. With the printer turned on, simply connect an Ethernet cable from its RJ-45 port to the network hub, switch, or router, and then install the print driver on each of the computers on the network (if the driver is already installed, you may need to select "Add a printer" from the Devices and Printers menu). On-screen instructions provide easy step-by-step installation.



Wireless direct

## Connect hassle-free with wireless networking

With built-in wireless networking, you can connect the printer directly to a wireless (Wi-Fi) network without using an external print server.<sup>3</sup> Wireless networking allows work teams with a wireless router and a notebook or desktop computer with a wireless card or adapter to print via Wi-Fi—there's no need for a cable between the computer and the printer. And the data travels quickly, at speeds up to 300 Mbps across distances of up to 30.5 meters. The benefits that are unique to built-in wireless networking include:

- **Increases mobility**—Place the printer anywhere in your wireless network environment.
- **Reduces cable clutter**—Keep your office environment tidy and organised with fewer cables.
- **Simplifies relocation**—Fewer cables make it easier to move equipment from one location to another. There's no need to install expensive LAN cabling.

## Minimise interruptions with optional high-yield cartridges and paper tray



Up to 1,050 sheets with optional tray 3

Print up to 9,200 pages per cartridge with the optional HP 970XL black Officejet Pro X ink cartridge, and get composite colour yields of up to 6,600 pages with optional HP extended-life cyan, yellow, and magenta cartridges.<sup>17</sup>

All printer models come standard with a 500-sheet input tray, and the output capacity is larger than most desktop printers, holding up to 300 sheets of paper. And you can get extra input capacity—up to 1,050 sheets at once—with the optional 500-sheet paper input tray 3. For extended-life cartridges and optional paper trays, see Ordering information, on page 14.

Buyers Laboratory calculated that the Officejet Pro X576dw would require the fewest number of consumables/interventions when compared to small workgroup laser devices.<sup>29</sup> The Officejet Pro X451/X551 color printer series uses the same paper capacities and other consumables.

## Depend on HP for reliable workgroup printing

This printer is engineered to last, meeting the demands of a busy workgroup. Recommended monthly print volumes are as high as 6,000 pages per month (as high as 4,000 for X451dw)<sup>7</sup> and monthly duty cycles are up to 80,000 pages (up to 50,000 for X451dw).<sup>8</sup>

## HP services—protect your technology investment and stay productive



HP Care Pack services

Expand and extend your standard warranty with HP Care Pack services. Our range of support services provide you access to experts when you need them—so you can focus on what you care about.

With industry-leading HP Care Pack services you simply choose the level of support you need—no more, no less. A variety of 1 year and 3 year options are available for the HP Officejet Pro X series, including:

- Next Business Day On-site assisted exchange
- Next Business Day Exchange (unassisted)
- 3-5 Day Exchange (in some countries)
- Return to HP

Select the HP Care Pack to best meet your needs at [hp.com/go/cpc](http://hp.com/go/cpc).

## Optimise your print environment

HP Managed Print Services (MPS) delivers scalable standard and custom service options tailored to meet your specific imaging and printing infrastructure needs. HP provides everything you need for reliable printing, including site assessment and design for optimised print productivity, coupled with unsurpassed repair and maintenance support. For more information, visit [hp.com/go/mps](http://hp.com/go/mps).

# Conserve resources without sacrificing performance



Up to 50% less energy use than laser

## Consume up to 50% less energy

Thanks to revolutionary HP PageWide Technology, this ENERGY STAR certified device uses up to 50% less energy than colour lasers while maintaining print speeds up to twice as fast.<sup>9,18</sup> Power usage drops significantly while in Ready or Sleep mode, which can help save resources and money without affecting the high performance of this product.

Hewlett-Packard printing and imaging equipment marked with the ENERGY STAR logo is certified by the U.S. Environmental Protection Agency's ENERGY STAR specifications for imaging equipment. Additional ENERGY STAR information is listed at: [hp.com/go/energystar](http://hp.com/go/energystar).



2-sided printing

## Save paper and reduce waste

Reduce up to 50% of packaging waste by weight versus colour lasers<sup>19</sup>—Original HP pigment inks require less packaging than toner cartridges. Supplies materials by volume required are a fraction versus competitive laser printers. And because this printer has no long-life consumables to replace (drums, fusers, etc.), there is significantly less waste material over the life of the device.

Use HP SureSupply to consolidate supplies orders, helping save you money while reducing the environmental impact of packing and transporting multiple single orders.<sup>30</sup>

Reduce paper use by up to 50% by printing two pages on a single sheet, using built-in automatic two-sided printing. In managed print environments, HP Web Jetadmin can help cut the cost of paper consumption by setting automatic two-sided printing as the default for individual devices or entire fleets (for two-sided printing capable devices).<sup>12</sup>



HP Smart Print

## Print web content responsibly with HP Smart Print

Finally, stop getting extra pages you don't want when printing from the web. HP Smart Print, a free download, works with Microsoft Internet Explorer®, Mozilla Firefox®, and Google Chrome™ browser to help you organise web content before you print. Now you can stop getting the extra pages and content you don't need—such as clipped pages or lines of useless text. The result is that excess pages are typically reduced by as much as 25% when printing from the Internet.<sup>20</sup> To download, go to [hp.com/go/smartprint](http://hp.com/go/smartprint).

## Reduce your impact—recycle HP ink cartridges

Simplify the management and disposal of products, and recover some of their value at end of use. Through HP Planet Partners—a free, convenient return and recycling program currently available in 47 countries—you can be assured cartridges won't end up in a landfill.<sup>21</sup> All returned Original HP print cartridges go through a multiphase recycling process where they are reduced to raw materials which are used to make new metal and plastic products.

# Ordering information

Use accessories and supplies specifically designed for the MFP to help provide efficient performance. To order the accessories and supplies listed here, go to [hp.com](http://hp.com). To contact HP by country, please visit [hp.com/country/us/en/cs/contact-hp/contact.html](http://hp.com/country/us/en/cs/contact-hp/contact.html).

If you don't have access to the Internet, contact your qualified HP dealer, or call HP (U.S.) at (800) 282 6672.

<b>Printers</b>	HP Officejet Pro X451dw HP Officejet Pro X551dw	CN463A CV037A
<b>Print cartridges</b>		
Black	HP 970 Black Officejet Pro X ink cartridge (~3,000 pages) HP 970XL Black Officejet Pro X ink cartridge (~9,200 pages)	CN621A CN625A
Colour	Standard (~2,500 pages per cartridge): HP 971 Cyan Officejet Pro X ink cartridge HP 971 Magenta Officejet Pro X ink cartridge HP 971 Yellow Officejet Pro X ink cartridge  Extended life (~6,600 pages per cartridge): HP 971XL Cyan Officejet Pro X ink cartridge HP 971XL Magenta Officejet Pro X ink cartridge HP 971XL Yellow Officejet Pro X ink cartridge	CN622A CN623A CN624A  CN626A CN627A CN628A
<b>Accessories</b>	HP Officejet Pro X Series 500-sheet paper tray	CN595A
<b>Paper</b>	<a href="http://hp.com/go/learnaboutesupplies">hp.com/go/learnaboutesupplies</a> +800 7644 7644	
<b>Software</b>	HP Web Jetadmin: <a href="http://hp.com/go/wja">hp.com/go/wja</a> HP Universal Print Driver: <a href="http://hp.com/go/upd">hp.com/go/upd</a>	



## Notes

- <sup>1</sup> Cost per page (CPP) claim is based on the majority of colour laser MFPs <\$1,000 USD MSRP and colour 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. More information: [hp.com/go/learnaboutsupplies](http://hp.com/go/learnaboutsupplies).
- <sup>2</sup> Memory is not expandable.
- <sup>3</sup> Wireless performance is dependent upon physical environment and distance from access point. Wireless operations are compatible with 2.4 GHz routers only.
- <sup>4</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>5</sup> Black print resolution: up to 1200 x 1200 optimised dpi from 600 x 600 input dpi (on unspecified, plain, HP Premium Presentation Matte, and HP Brochure Matte); Colour print resolution: up to 2400 x 1200 optimised dpi from 600 x 600 input dpi (on HP Advanced photo papers)
- <sup>6</sup> Capacity up to 1,050 sheets with optional 1 x 500 sheet accessory paper tray, not included; please purchase separately.
- <sup>7</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>8</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>9</sup> Comparison based on manufacturers' published specifications of fastest available colour mode (as of March 2012) and includes colour laser MFPs <\$1,000 USD MSRP and colour 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 colour mode (sample 4-page category documents tested from ISO 24734). For more information, see [hp.com/go/printerspeeds](http://hp.com/go/printerspeeds).
- <sup>10</sup> Based on published fastest print speeds for the HP X551dw and X576dw models compared to laser and inkjet colour desktop MFPs <\$1000 USD and printers <\$800 USD validated by WirthConsulting.org Jan. 2013. For more information, see [hp.com/go/printerspeeds](http://hp.com/go/printerspeeds).
- <sup>11</sup> Testing performed in accordance with ISO 11798:2000 information and documentation, conducted by SP Technical Research Institute of Sweden, November, 2012. For more information, see [hp.com/certifications/se/sv](http://hp.com/certifications/se/sv).
- <sup>12</sup> HP Web Jetadmin is free and can be downloaded at [hp.com/go/webjetadmin](http://hp.com/go/webjetadmin). The HP Universal Print Driver is free and can be downloaded at [hp.com/go/upd](http://hp.com/go/upd).
- <sup>13</sup> Requires a wireless access point and an Internet connection to the printer. Services require registration. App availability varies by country, language, and agreements, and requires a firmware upgrade. For details, [hp.com/go/eprintcenter](http://hp.com/go/eprintcenter).
- <sup>14</sup> To learn more about HP Imaging and Printing Security Center or to obtain a free 60-day trial, please visit [hp.com/go/ipsc](http://hp.com/go/ipsc).
- <sup>15</sup> Additional workflow solutions available through HP's software and third-part partner program. For solution detail, go to [hp.com/go/qsc](http://hp.com/go/qsc).
- <sup>16</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 [hp.com/go/eprintcenter](http://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.
- <sup>17</sup> Black page volume based on HP 970XL black ink cartridge. Colour page volume based on HP 971XL Cyan, Magenta, or Yellow Ink Cartridges.
- <sup>18</sup> Majority of colour laser printers <\$800 USD and colour laser MFPs <\$1000 as of August 2012, Officejet Pro. Energy use based on HP testing and third-party testing commissioned by HP. Actual cost and energy usage may vary. For details, see [hp.com/go/officejet](http://hp.com/go/officejet).
- <sup>19</sup> Compares weight of empty cartridge and packaging materials needed for 15,000 pages using highest-capacity cartridges of major in-class competitors' colour laser MFPs <\$1,000 USD and colour laser printers <\$800 USD as of October 2012. Tested by Buyers Lab Inc. For more information [hp.com/go/officejet](http://hp.com/go/officejet).
- <sup>20</sup> An independent study commissioned by HP with Mozilla Firefox 14.0.1, Internet Explorer 9, and Google Chrome 21.0.1180.79. Study compared paper consumption using HP Smart Print with a web browser's print command when printing typical content from the Internet.
- <sup>21</sup> 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).
- <sup>22</sup> No heating or fusing warm up time required.
- <sup>23</sup> Fade resistance based on paper industry predictions for acid-free papers and original HP inks; colourant stability data at room temperature based on similar systems tested per ISO 11798 and ISO 18909.
- <sup>24</sup> Based on HP internal testing, using paper with the ColorLok logo. For details, go to [hp.com/go/printpermanence](http://hp.com/go/printpermanence).
- <sup>25</sup> Based on paper-industry predictions for acid-free papers and original HP inks; colourant stability data at room temperature based on similar systems tested per ISO 11798 and ISO 18909.
- <sup>26</sup> Based on HP internal testing.
- <sup>27</sup> Google™ and Gmail are trademarks of Google Inc. Feature requires Google Cloud Print Ready printer or existing printer connected to a PC with Internet access. Print times may vary. Currently only Google apps are supported.
- <sup>28</sup> Supports the following devices running iOS 4.2 or later: iPad®, iPhone® (3GS or later), iPod touch® (3rd generation or later). Works with HP's AirPrint-enabled printers and requires the printer be connected to the same network as your iOS device. Wireless performance is dependent upon physical environment and distance from the access point.
- <sup>29</sup> BLI White Paper, "HP Officejet Pro X576dw, How does it stack up against Laser?" page 36, [h20195/v2/GetPDF.aspx%2F4AA4-8388ENUS.pdf](http://h20195/v2/GetPDF.aspx%2F4AA4-8388ENUS.pdf).
- <sup>30</sup> HP SureSupply alerts you when you should replace a print cartridge and helps you purchase locally or via the Internet. Only available with original HP supplies. Internet access required. For more information, visit [hp.com/learn/suresupply](http://hp.com/learn/suresupply).

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