



# HP PageWide Pro 452dn Printer

HP PageWide Pro delivers the fastest speeds in its class for up to 40% lower color cost per page than color lasers.<sup>2</sup> Drive productivity with professional-quality color documents plus best-in-class security features<sup>3</sup> and energy efficiency.<sup>4</sup>



**Dynamicsecurity:** Cartridges with non-HP chips might not work today or in the future. **Learn More:** <http://www.hp.com/go/learnaboutefficiency>

**Professional mode speed:** Up to 40 ppm black; Up to 40 ppm color

**Standard connectivity:** 1 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Ethernet 10/100 Base-TX network  
**Paper handling:** 500-sheet input tray, 50-sheet multi-purpose tray; 300-sheet face-down output bin  
**Duty cycle (monthly):** Up to 50,000 pages

## Professional color, breakthrough low cost per page

- Results you expect and lasting value—up to 40% lower color cost per page than color lasers.<sup>2</sup>
- Print professional-quality color on a variety of papers—perfect for office use.
- Print more pages and replace cartridges less often, using Original HP PageWide high-yield cartridges.<sup>6</sup>
- Spend less time and budget on scheduled maintenance with streamlined HP PageWide Technology.<sup>7</sup>

## The fastest printer in its class<sup>1</sup>

- Wait less, do more with best-in-class speeds—as fast as 55 ppm in color and black-and-white.<sup>1</sup>
- Grab pages and go—without waiting. This device wakes up and prints fastest in its class.<sup>5</sup>

## Proven technology. Superior energy efficiency.<sup>4</sup>

- Minimize downtime with HP PageWide Technology that delivers reliable performance businesses demand.
- Conserve with HP PageWide Technology—designed to use less energy than any printer in its class.<sup>4</sup>
- Get professional-quality color documents and the performance you expect with Original HP PageWide cartridges.

## Best-in-class security<sup>3</sup> and management features

- Help protect your investment and extend capabilities as your needs grow, with a portfolio of solutions.<sup>8</sup>
- Help keep your printer secure—from boot up to shutdown—with secure boot and secure code integrity validation.



<sup>1</sup> Comparison based on manufacturers' published specifications of fastest available color mode of all color business printers \$300–\$800 USD and MFPs \$400–\$1000 USD as of November 2015, excluding other HP PageWide products, and products with 1% or lower market share using market share as reported by IDC as of Q3 2015. HP PageWide speeds based on General Office mode and exclude first page. Learn more at <http://www.hp.com/go/printerspeeds> <sup>2</sup> Comparison of HP PageWide Pro and Enterprise class devices with the majority of in-class color laser MFPs < \$3,000 USD, and color laser printers < \$1,249 USD as of November 2016; market share as reported by IDC as of Q2 2016. Cost per page (CPP) reported by Gap Intelligence Pricing & Promotions report October 2016, comparisons for all supplies are based on published specifications of the manufacturers' highest-capacity cartridges and page yield. Average yield based on ISO/IEC 24711 and continuous printing. Actual yield varies based on content of printed pages and other factors. For details see <http://www.hp.com/go/learnaboutefficiency>. <sup>3</sup> Best-in-class security claim based on HP review of published embedded security features of competitive in-class Pro printers as of January 2016. Learn more at <http://www.hp.com/go/printersecurityclaims> <sup>4</sup> Energy claim based on TEC data reported on [energystar.gov](http://energystar.gov). Data normalized to determine energy efficiency of majority of in-class business printers \$300–\$800 USD and MFPs \$400–\$1000 USD as of November 2015; market share as reported by IDC as of Q3 2015. Actual results may vary. Learn more at <http://www.hp.com/go/pagewideclaims> <sup>5</sup> Comparison based on manufacturers' published specifications of first page out from ready and sleep mode of all color business printers \$300–\$800 USD and MFPs \$400–\$1000 USD as of November 2015, excluding other HP PageWide products, and products with 1% or lower market share using market share as reported by IDC as of Q3 2015. Subject to device settings. Actual results may vary. Learn more at <http://www.hp.com/go/printerspeeds> <sup>6</sup> HP 970X High Yield Original PageWide Cartridges are not included in printer purchase; purchase separately. Comparison based on ISO 24711 cartridge yields for HP 970 series High Yield Original PageWide Cartridges compared with HP 970 series Original PageWide Cartridges. High-yield cartridges are compatible only with HP PageWide Pro 400 and 500 series MFPs and printers. Learn more at <http://www.hp.com/go/learnaboutefficiency> <sup>7</sup> Less scheduled maintenance based on 150,000 pages printed, and published comparisons of majority of in-class color laser printers \$300–\$800 USD and MFPs \$400–\$1000 USD as of November 2015; market share as reported by IDC as of Q3 2015. Learn more at <http://www.hp.com/go/pagewideclaims> <sup>8</sup> Additional workflow solutions available through HP's software and third-party partner program. For solution details, visit <http://www.hp.com/go/gsc>

## HP PageWide Pro 452dn Printer Specifications Table

<b>Functions / Multitasking supported</b>	Print
<b>Print Speed</b>	<b>Black (ISO):</b> Up to 40 ppm; <b>Color (ISO):</b> Up to 40 ppm; <b>First Page Out Black:</b> As fast as 6.5 sec; <b>First Page Out Color:</b> As fast as 7 sec; <b>Black (Draft):</b> Up to 55 ppm; <b>Color (Draft):</b> Up to 55 ppm
<b>Print Resolution</b>	<b>Black (best):</b> Up to 1200 x 1200 optimised dpi from 600 x 600 input dpi (on unspecified plain paper, HP Premium Inkjet Presentation Paper Matte, and HP Inkjet Brochure Paper Matte); <b>Color (best):</b> Up to 2400 x 1200 optimized dpi from 600 x 600 input dpi (on HP Advanced Photo Papers)
<b>Print Technology</b>	HP PageWide Technology with pigmented inks
<b>Printer Drivers Included</b>	Windows PCL 6 Discrete, Mac PS, Windows HP UPD, Linux, UNIX, SAP
<b>Print Cartridges Number</b>	4 (1 black, cyan, magenta, yellow)
<b>Borderless Printing</b>	No
<b>Standard Print languages</b>	HP PCLXL (PCL6), PCL5, native PDF, HP Postscript Level 3 emulation
<b>Printer Smart Software Features</b>	HP ePrint, HP Mobile Apps, 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, Control Panel Shortcuts
<b>Printer Management</b>	HP Web Jetadmin; Embedded Web Server; HP UPD Printer Administrator Resource Kit; HP Utility (Mac), HP JetAdvantage Security Manager optional
<b>Standard Connectivity</b>	1 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Ethernet 10/100 Base-TX network
<b>Network Capabilities</b>	Yes, via built-in Ethernet
<b>Network Ready</b>	Standard (built-in Ethernet)
<b>Wireless Capability</b>	No
<b>Mobile Printing Capability</b>	HP ePrint
<b>Memory</b>	<b>Standard:</b> 512 MB; <b>Maximum:</b> 512 MB
<b>Processor Speed</b>	1.2 GHz
<b>Duty Cycle<sup>2</sup></b>	<b>Monthly, letter:</b> Up to 50,000 pages
<b>Recommended Monthly Page Volume<sup>3</sup></b>	750 to 4500
<b>Media Types Supported</b>	Plain paper (light, intermediate, mid-weight, heavy, extra heavy, prepunched, recycled, 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)
<b>Media Weight Supported<sup>4</sup></b>	Tray 1: 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); Tray 2: 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); Tray 3: 16 to 32 lb (plain paper); 33 to 66 lb (photo); 32 to 48 lb (brochure); 90 to 110 lb (card)
<b>Media Sizes Supported</b>	Tray 1: Letter, oficio, legal, statement, executive, 3 x 5 in, 4 x 6 in, 5 x 7 in, 5 x 8 in, envelopes (No. 10, Monarch); Tray 2: Letter, statement, executive, envelopes (No. 10); Tray 3: Letter, oficio, legal, statement, executive
<b>Media Sizes Custom</b>	Tray 1: 3 x 5 in to 8.5 x 14 in; Tray 2: 4.0 x 8.3 in to 8.5 x 11.7 in; Optional Tray 3: 4.0 x 8.3 in to 8.5 x 14 in
<b>Paper Handling</b>	500-sheet input tray, 50-sheet multi-purpose tray; 300-sheet face-down output bin; <b>Duplex Options:</b> Automatic (standard); <b>Envelope Feeder:</b> No; <b>Standard Paper Trays:</b> 2; <b>Input Capacities:</b> Up to 500 sheets standard; Up to 37 envelopes (N/A Accessory Tray); Up to 100 cards; Up to 225 sheets labels; <b>Output Capacities:</b> Up to 300 sheets standard; Up to 35 envelopes; Up to 100 cards; Up to 100 sheets labels; Up to 250 sheets legal
<b>What's in the box</b>	<b>D3Q15A</b> HP PageWide Pro 452dn Printer; HP 972A Setup Black PageWide Cartridge (~3000 pages); HP 972A Setup Cyan PageWide Cartridge; HP 972A Setup Magenta PageWide Cartridge; HP 972A Setup Yellow PageWide Cartridge (CMY composite ~1500 pages); power cord; installation guide; CD-ROMs (for software, Windows and Mac printer drivers, and User's Guide).

<b>Replacement Cartridges</b>	HP 972A Black Original PageWide Cartridge (~3500 pages); HP 972A Cyan Original PageWide Cartridge; HP 972A Magenta Original PageWide Cartridge; HP 972A Yellow Original PageWide Cartridge (CMY composite ~3000 pages); HP 972X High Yield Black Original PageWide Cartridge (~10,000 pages); HP 972X High Yield Cyan Original PageWide Cartridge; HP 972X High Yield Magenta Original PageWide Cartridge; HP 972X High Yield Yellow Original PageWide Cartridge (CMY composite ~7000 pages)
<b>Product Dimensions</b>	<b>W x D x H:</b> 20.9 x 16 x 14.9 in; <b>Maximum:</b> 31.6 x 27.3 x 14.9 in
<b>Product Weight</b>	36.10 lb
<b>Warranty Features</b>	One-year, on-site warranty, service and support; one-year technical phone support, chat, and e-mail
<b>Control Panel</b>	2.0" MGD (Monochrome Graphic Display)
<b>Display Description</b>	2.0" MGD (Monochrome Graphic Display)
<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
<b>Compatible Operating Systems</b>	Windows 10, Windows 8, Windows 7, Mac OS X v10.11 El Capitan, OS X v10.10 Yosemite, OS X v10.9 Mavericks, Linux (hplip.net)
<b>Compatible Network Operating Systems</b>	Windows 10, Windows 8, Windows 7, Mac OS X v10.11 El Capitan, OS X v10.10 Yosemite, OS X v10.9 Mavericks, Windows 2003 Server (Standard Edition, Enterprise Edition, 32bit & 64-bit), Windows 2003 Server R2 (Standard Edition, Enterprise Edition, 32bit & 64-bit), Windows Small Business Server 2003 (32bit & 64-bit), Windows 2008 Server (Standard Edition, Enterprise Edition, 32bit & 64-bit), Windows Small Business Server 2008 (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 (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 hplip.net), SAP (For more information, see <a href="http://www.hp.com/go/sap/drivers">http://www.hp.com/go/sap/drivers</a> ), UNIX (For more information, see <a href="http://www.hp.com/go/unixmodelscripts">http://www.hp.com/go/unixmodelscripts</a> )
<b>Minimum System Requirements</b>	<b>PC:</b> Windows® 10, 8.1, 8, 7: 32-bit or 64-bit; 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer. Windows Vista® (32-bit only), 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8. Windows® XP SP3 or higher (32-bit only): any Intel® Pentium® II, Celeron® or 233 MHz compatible processor, 850 MB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8; <b>MAC:</b> Apple® OS X v10.11 El Capitan, OS X v10.10 Yosemite, OS X v10.9 Mavericks; 1 GB HD; Internet required; USB
<b>Power</b>	<b>Power Supply Type:</b> Internal (Built-in) Universal Power Supply; <b>Power Requirements:</b> Input voltage: 100 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz); <b>Power Consumption:</b> 100 watts (Maximum), 70 watts average (Printing), 9.5 watts (Ready), 4.5 watts (Sleep), 0.2 watts (Manual-Off)
<b>Acoustics</b>	<b>Acoustic Power Emissions:</b> 6.8 B(A); <b>Acoustic Pressure Emissions:</b> 56 dB(A) (Mono/color printing), inaudible (idle)
<b>Operating Environment</b>	<b>Recommended Operating Temperature:</b> 59 to 86°F; <b>Storage Temperature Range:</b> -40 to 140°F; <b>Non-Operating Humidity Range:</b> 5 to 90% RH; <b>Operating Humidity Range:</b> 20 to 80% RH
<b>Accessories</b>	HP PageWide Pro 500-sheet Paper Tray (D3Q23A)
<b>HP Service and Support Options</b>	U8ZZ1E - HP 2 year Next Business Day PageWide Pro X452/X552 Hardware Support; U8ZZ2E - HP 3 year Next Business Day PageWide Pro X452/X552 Hardware Support; U8ZZ3E - HP 4 year Next Business Day PageWide Pro X452/X552 Hardware Support; U8ZZ4E - HP 5 year Next Business Day PageWide Pro X452/X552 Hardware Support; U9AA1E - HP 3 year Next Business Day Exchange PageWide Pro X452/X552 Service; U1PA9E - HP Network Installation OfficeJet/PageWide Pro X45x-X55x Service

Learn more at [hp.com](http://hp.com)

<sup>1</sup> With ink installed, no media in trays <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> All HP media listed as compatible with the printer in the HP DesignJet Printing Supplies Compatibility Guide, regardless of weight, may be used <sup>5</sup> HP SureSupply alerts you when you should replace a print cartridge and helps you purchase locally or via the Internet. For more information, visit <http://www.hp.com/learn/suresupply>. Only available with original HP supplies; Internet access required.

