

Product guide

# At 40% lower cost, color is the new black and white



HP PageWide Pro 452, 477, 552 and 577 series



January 2017



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## Quality and performance you can count on

Balancing speed, quality, and printing cost once meant sacrificing one benefit for another. These HP printers with HP PageWide Technology deliver the ultimate combination of value and speed, with the quality businesses demand. Drive productivity with high-performance, professional-quality color printing, plus best-in-class security features<sup>1</sup> and energy efficiency<sup>2</sup>—for up to 40% lower color cost-per-page as compared with color lasers.<sup>3</sup>

### Who can benefit?

Work teams in small and medium-size businesses or remote branch offices can share these efficient, reliable printers. For teams of 5 to 15 users printing up to 6,000 pages per month,<sup>4</sup> HP PageWide Pro 552 and 577 series offer a perfect solution. Work teams of 3 to 10 users printing up to 4,500 pages per month<sup>4</sup> can share HP PageWide Pro 452 and 477 series models. For businesses that need a multifunction printer, HP PageWide Pro 477, 577 series deliver fast single-pass, two-sided scanning, plus versatile print, copy, and fax features. Many models offer convenient Wi-Fi Direct<sup>5</sup> and NFC touch-to-print capabilities.<sup>6</sup>



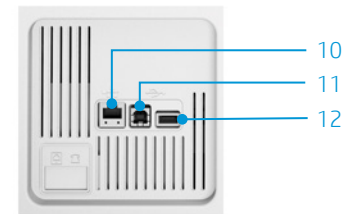
# Product walk around: 552dw Printer

HP PageWide Pro 552dw Printer

- 1 Intuitive 4.3-inch (10.9 cm) color touchscreen with gesturing
- 2 Easy-access USB port for convenient USB document printing
- 3 NFC touch-to-print<sup>6</sup>
- 4 50-sheet multipurpose tray 1 with long paper extension
- 5 300-sheet output bin
- 6 Built-in wireless networking<sup>7</sup>
- 7 Front door access to easy-to-replace print cartridges
- 8 Built-in automatic two-sided printing
- 9 500-sheet main input tray 2
- 10 Ethernet network port, 10/100Base-TX
- 11 Hi-Speed USB 2.0 printing port
- 12 Hi-Speed USB 2.0 port (for connecting third-party devices)



Front view



Rear I/O panel close-up

## Series at a glance

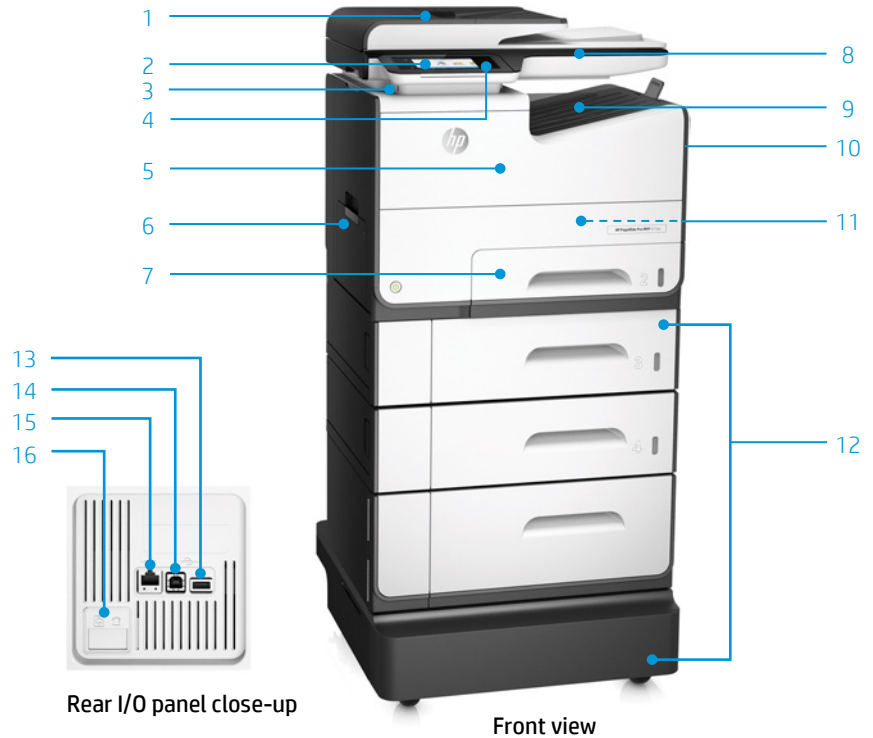


Model	452dn/dw	552dw
<b>Print speed in pages per minute (ppm) (black and color, letter and A4)</b>	Up to 40 Professional mode <sup>8</sup> Up to 55 General Office (GO) mode	Up to 50 Professional mode <sup>8</sup> Up to 70 GO mode
<b>Print cartridge options (maximum page yields)</b>	High-yield (X) cartridges (10,000 black/7,000 color) <sup>9</sup>	Extra-high-yield (Y) cartridges (17,000 black/13,000 color) <sup>10</sup>
<b>Control panel display</b>	2-inch (5.08 cm) mono graphic display	4.3-inch (10.9 cm) color touchscreen
<b>Print input capacity (standard/optional)</b>	550/1,050 <sup>11</sup>	550/1,550 <sup>12</sup>
<b>Duty cycle (pages per month)<sup>13</sup></b>	Up to 50,000	Up to 80,000
<b>Security and fleet management features</b>	✓	✓
<b>Print Microsoft® Word and PowerPoint® files from USB<sup>14</sup></b>	Not available	✓
<b>Wi-Fi Direct<sup>5</sup> and NFC touch-to-print capabilities<sup>6</sup></b>	dw model only	✓

# Product walk around: MFP 577z

HP PageWide Pro MFP 577z

- 1 50-sheet single-pass, two-sided automatic document feeder (ADF)
- 2 Intuitive 4.3-inch (10.9 cm) color touchscreen with gesturing
- 3 Easy-access USB port for convenient USB document printing
- 4 NFC touch-to-print<sup>6</sup>
- 5 Front door access to easy-to-replace print cartridges
- 6 50-sheet multipurpose tray 1 with long paper extension
- 7 500-sheet main input tray 2
- 8 Flatbed scanner up to legal-size paper
- 9 300-sheet output bin
- 10 Built-in wireless networking<sup>7</sup>
- 11 Built-in automatic two-sided printing
- 12 500-sheet trays 3, 4 and mobile cart
- 13 Hi-Speed USB 2.0 port (for connecting third-party devices)
- 14 Hi-Speed USB 2.0 printing port
- 15 Ethernet network port, 10/100Base-TX
- 16 Fax connection ports



## Series at a glance



Model	477dn/dw	577dw	577z
<b>Functions</b>	Print, scan, copy, fax	Print, scan, copy, fax	Print, scan, copy, fax
<b>Print speed in ppm (black and color, letter and A4)</b>	Up to 40 Professional <sup>8</sup> Up to 55 GO mode	Up to 50 Professional <sup>8</sup> Up to 70 GO mode	Up to 50 Professional <sup>8</sup> Up to 70 GO mode
<b>Print cartridge options (maximum page yields)</b>	High-yield (X) cartridges (10,000 black/7,000 color) <sup>9</sup>	Extra-high-yield (Y) cartridges (17,000 black/13,000 color) <sup>10</sup>	Extra-high-yield (Y) cartridges (17,000 black/13,000 color) <sup>10</sup>
<b>Control panel display</b>	4.3-inch (10.9 cm) color touchscreen	4.3-inch (10.9 cm) color touchscreen	4.3-inch (10.9 cm) color touchscreen
<b>Print input capacity (standard/optional)</b>	550/1,050 <sup>11</sup>	550/1,550 <sup>12</sup>	1,550 <sup>12</sup>
<b>Duty cycle (pages per month)<sup>13</sup></b>	Up to 50,000	Up to 80,000	Up to 80,000
<b>Security and fleet management features</b>	✓	✓	✓
<b>Print Microsoft Word and PowerPoint files from USB<sup>14</sup></b>	✓	✓	✓
<b>Wi-Fi Direct<sup>5</sup> and NFC touch-to-print<sup>6</sup></b>	dw model only	✓	✓

# Product comparison: 552dw Printer

The following table compares the new HP PageWide Pro 552dw Printer with the HP OfficeJet Pro X551dw Printer.



HP PageWide Pro 552dw Printer	HP OfficeJet Pro X551dw Printer	Benefits
Print speed up to 50 ppm, Professional mode, <sup>8</sup> up to 70 ppm, GO mode (black and color, letter and A4)	Up to 42 ppm, Professional mode, <sup>8</sup> up to 70 ppm, GO mode (black and color, letter and A4)	Save time with 19% faster output (Professional mode)
First page out (FPO) as fast as 6 seconds from ready <sup>15</sup>	FPO as fast as 9.5 seconds from ready <sup>15</sup>	Up to 37% faster FPO from ready
Extra-high-yield cartridge option: up to 17,000 black pages, up to 13,000 color <sup>10</sup>	High-yield cartridges: up to 9,200 black pages, up to 6,600 color <sup>16</sup>	More cartridge options and up to 85% more black pages, 97% more color pages
Maximum input capacity: up to 1,550 sheets <sup>12</sup>	Maximum input capacity: up to 1,050 sheets <sup>17</sup>	Up to 48% increased paper capacity
Print PDF, Microsoft Word and PowerPoint documents from a USB drive <sup>14</sup>	Print PDF and JPEG files from USB	Conveniently print the files businesses work with every day from USB
Wi-Fi Direct <sup>5</sup> and NFC touch-to-print <sup>6</sup>	Not available	Enhance efficiency with convenient printing from smartphones and tablets
HP Web Jetadmin with support for 50 new configuration capabilities, <sup>18</sup> enhanced HP Embedded Web Server, and more	HP Web Jetadmin, <sup>18</sup> HP Embedded Web Server, HP Driver Configuration Utility, HP Driver Deployment Utility, HP Utility (Mac)	Save time with simplified IT install and easily manage devices and settings with best-in-class fleet management features <sup>1</sup>
Embedded security features, including secure boot, secure firmware integrity, runtime code integrity, optional HP JetAdvantage Security Manager, <sup>19</sup> and more	Essential security features	Help keep your printer secure from boot up to shut down, and protect sensitive information with best-in-class security features <sup>1</sup>
HP Open Extensibility Platform (OXP) solutions with job accounting	HP OXP extensibility solutions without job accounting	Easily extend device capabilities with HP and third-party partner solutions
4.3-inch (10.9 cm) color touchscreen with gesturing, control panel shortcuts, and advanced workflow/preview features	4.3-inch (10.9 cm) color touchscreen	Save time with streamlined workflow features

# Product comparison: MFP 577dw

The following table compares the new HP PageWide Pro MFP 577dw with the HP OfficeJet Pro X576dw MFP.



HP PageWide Pro MFP 577dw	HP OfficeJet Pro X576dw MFP	Benefits
Print speed up to 50 ppm, Professional mode, <sup>8</sup> up to 70 ppm, GO mode (black and color, letter and A4)	Up to 42 ppm, Professional mode, <sup>8</sup> up to 70 ppm, GO mode (black and color, letter and A4)	Save time with 19% faster output (Professional mode)
Single-pass, two-sided ADF scanning Up to 25 images per minute (ipm) black/color, simplex, up to 26 ipm black/color, duplex <sup>20</sup>	Mechanically reversing ADF, two-sided scanning Up to 20/15 ipm black/color, simplex <sup>20</sup>	Up to three times faster duplex scanning
FPO as fast as 6 seconds from ready <sup>15</sup>	FPO as fast as 9.5 seconds from ready <sup>15</sup>	Up to 37% faster FPO from ready
Extra-high-yield cartridge option: up to 17,000 black pages, up to 13,000 color <sup>10</sup>	High-yield cartridges: up to 9,200 black pages, up to 6,600 color <sup>16</sup>	More cartridge options and up to 85% more black pages, 97% more color pages
Maximum input capacity: up to 1,550 sheets <sup>12</sup>	Maximum input capacity: up to 1,050 sheets <sup>17</sup>	Up to 48% increased paper capacity
Print PDF, Microsoft Word and PowerPoint documents from a USB drive <sup>14</sup>	Print PDF and JPEG files from USB	Conveniently print the files businesses work with every day from USB
Wi-Fi Direct <sup>5</sup> and NFC touch-to-print <sup>6</sup>	Not available	Enhance efficiency with convenient printing from smartphones and tablets
HP Web Jetadmin with support for 50 new configuration capabilities, <sup>18</sup> enhanced HP Embedded Web Server, and more	HP Web Jetadmin, <sup>18</sup> HP Embedded Web Server, HP Driver Configuration Utility, HP Driver Deployment Utility, HP Utility (Mac)	Save time with simplified IT install and easily manage devices and settings with best-in-class fleet management features <sup>1</sup>
Embedded security features, including secure boot, secure firmware integrity, runtime code integrity, optional HP JetAdvantage Security Manager, <sup>19</sup> and more	Essential security features	Help keep your printer secure from boot up to shut down, and protect sensitive information with best-in-class security features <sup>1</sup>
HP OXP extensibility solutions with job accounting	HP OXP extensibility solutions without job accounting	Easily extend device capabilities with HP and third-party partner solutions
4.3-inch (10.9 cm) color touchscreen with gesturing, control panel shortcuts, and advanced workflow/preview features	4.3-inch (10.9 cm) color touchscreen	Save time with streamlined workflow features



# Key benefits at a glance

Empower workgroups with impressively fast print speeds, professional-quality color, and streamlined workflow features. Efficient, reliable HP PageWide Technology minimizes downtime. Help protect your data, devices and documents with best-in-class security<sup>1</sup>.



## Outstanding value, the results you expect

- Print professional-quality color documents for up to 40% lower color cost-per-page as compared with color lasers<sup>3</sup>
- Rely on Original HP PageWide cartridges to deliver durable prints that last.
- Print more pages, with fewer interruptions using optional Original HP PageWide high-yield<sup>9</sup> or extra-high-yield<sup>10</sup> cartridges.
- Spend less time and budget on maintenance with streamlined HP PageWide Technology.



## Keep productivity on track

- Save time with best-in-class print speeds—up to 70 ppm in color and black-and-white (552 and 577 series).<sup>21</sup> Grab pages and go with the fastest first page printing in its class.<sup>22</sup>
- Get fast, two-sided scanning with an MFP that captures both sides of the page at once (477 and 577 MFP series).
- Manage print jobs directly at the printer—just tap and swipe the intuitive color touchscreen (477, 552, and 577 series).
- Print directly from your mobile device to your Wi-Fi Direct printer, without accessing the company network,<sup>5</sup> and empower work teams to print with just a touch of their NFC-enabled mobile device to the printer—no network needed<sup>6</sup> (not available for 452dn and 477dn models).
- Print Microsoft Word and PowerPoint files directly from a USB drive (477, 552, and 577 series).<sup>14</sup>
- Meet high-volume demands with a paper capacity of up to 1,550 sheets (552 and 577 series).<sup>12</sup>



## Proven, efficient technology

- Get fast, high-impact business printing using a printer that leverages the proven, advanced technology developed for HP's multimillion-dollar Web Press digital printers.
- Minimize interruptions and downtime with HP PageWide Technology that delivers the reliable performance businesses demand.
- Keep productivity up and energy use down with an efficient printer or MFP designed to use less energy than any printer/MFP in its class.<sup>2</sup>



## Engineered for security and fleet management

- Help keep your printer secure, from boot up to shut down, with embedded security features.
- Easily manage devices and settings using HP Web Jetadmin with a suite of management features.<sup>18</sup>

# Outstanding value, the results you expect



Count on exceptional value and the results businesses need. Print professional-quality color documents for up to 40% lower color cost-per-page as compared with color lasers<sup>3</sup>



## Unbeatable, lasting value

Showcase your business with professional color printing and keep your budget in check. Produce high-impact color documents with an efficient, reliable device that delivers up to 40% lower color cost-per-page as compared with color lasers<sup>3</sup>



## Affordable, high-volume printing

Print longer with less interruptions. Choose optional Original HP PageWide extra-high-yield cartridges for HP PageWide Pro 552 and 557 series.<sup>10</sup> Print 17,000 black pages and 13,000 color pages before replacing cartridges—more than 4 times as many pages as standard cartridges.<sup>10</sup>

Optional Original HP PageWide high-yield cartridges for HP PageWide Pro 452 and 477 series let you print 10,000 black pages and 7,000 color pages before replacing cartridges.<sup>9</sup>



## Professional-quality color and black text

Produce vibrant, high-quality color and sharp, black text that's perfect for office use. Reliably print reports, memos, emails, and other business documents on a variety of papers.



## Spend less on maintenance

Minimize the time and budget spent on scheduled printer maintenance. Streamlined HP PageWide Technology requires fewer replaceable parts than most laser printers.<sup>25</sup>



## Optimize with ColorLok<sup>®</sup> papers

Improve the quality of your printed documents by choosing papers with ColorLok Technology. Colors are brighter, for rich, vivid images and graphics. Blacks are bolder to improve contrast and sharpen text.<sup>23</sup>



## Produce durable prints that last

Rely on Original HP PageWide cartridges to deliver durable documents that are water-, smear-, and fade-resistant, and stand up to highlighters.<sup>24</sup>

## Keep productivity on track



Move business forward with best-in-class print speeds,<sup>21</sup> the fastest first page printing in its class,<sup>22</sup> and a range of productivity features. Keep work teams covered—in the office and on the road—with easy mobile printing options.<sup>26</sup>

### Let large print jobs handle themselves

Flexible paper input options let you print in high volumes without having to stop and add paper:

- Print up to 1,050 sheets with an optional 500-sheet paper input tray<sup>11</sup>
- Print up to 1,550 sheets with additional paper input trays and mobile cart accessory (552 and 577 series)<sup>12</sup>



### Unmatched print speeds

Spend less time waiting and accomplish more. HP PageWide Technology delivers best-in-class print speeds—up to 70 ppm—for both color and black-and-white (552 and 577 series).<sup>21</sup> And with the fastest first page printing in its class, your pages are ready right when you need them.<sup>22</sup> Simply grab your documents and go.



### Print Microsoft files from a USB drive

Easily print Adobe® PDF, Microsoft Word and PowerPoint documents, plus JPEG files directly from your USB drive (477, 552, and 577 series).<sup>14</sup>



### Manage tasks from the intuitive color touchscreen

Easily manage print jobs directly at the printer. Tap and swipe the intuitive 4.3-inch (10.9 cm) color touchscreen for a more streamlined workflow (477, 552, and 577 series). The adjustable tilt angle of the control panel provides convenient accessibility to all users.



### Fast single pass, two-sided scanning

Efficiently scan stacks of paper files with quick, two-sided scanning that captures both sides of the page at once (477 and 577 MFP series).

Scan documents directly to email, USB, network folders, and the cloud (477 and 577 MFP series).<sup>27</sup> Save time and steps—quickly scan to email with LDAP directory email address lookup (477 and 577 MFP series).<sup>27</sup>



### Scan, copy, and fax while printing

Use multiple functions at once without interrupting someone else's task (477 and 577 MFP series). The capability to scan, copy, or fax while another person is printing, keeps work moving simultaneously.



### Print from mobile devices—no network needed

With the wireless models, print directly from your smartphone, tablet, or notebook PC to these Wi-Fi Direct-enabled printers—without accessing the company network.<sup>5</sup> Or, walk up and print with a just touch of your NFC-enabled mobile device.<sup>6</sup> There's no need to search through a long list of printers or connect to your corporate network (not available for 452dn and 477dn).



### Print from a variety of mobile devices

Easily print documents, emails, PDFs, and more from iPhones® and iPads® as well as smartphones and tablets running Android™ version 4.4 or later, Windows® 8/10, or Google Chrome™ operating systems—generally no setup or apps required (not available for 452dn and 477dn models).<sup>26</sup>

## Proven, efficient technology



Minimize interruptions and downtime with efficient, reliable performance. Conserve resources and use significantly less energy than laser printers,<sup>2</sup> with HP PageWide Technology designed for today's busy office.



### Proven, reliable technology

Avoid snags in your workflow with technology designed to provide efficient, proven results—for reliable performance businesses demand.

HP PageWide Technology leverages the advanced technology developed for HP's multimillion-dollar Web Press digital printers and delivers it in a new class of desktop printing devices—reinventing affordable, high-performance business printing.

HP printers with HP PageWide Technology offer exceptional value—outperforming in-class laser devices in speed<sup>21</sup> and cost savings.<sup>3</sup> They require less maintenance and fewer replaceable parts than most in-class laser printers,<sup>25</sup> for across-the-board savings, and reduced disruption and delays.

These HP business printers are designed and built to be robust. HP PageWide Pro 552 and 577 series have a recommended monthly page volume of up to 6,000 pages<sup>4</sup> and a paper input capacity of up to 1,550 sheets.<sup>12</sup>



### Less energy use than lasers<sup>2</sup>

Keep productivity up and energy use down. These efficient HP printers and MFPs are designed to use significantly less energy than any other in-class printer or MFP.<sup>2</sup>



### Cartridges designed for your printer

Get professional-quality pages and the performance you expect. Only Original HP PageWide cartridges are specially designed and precisely engineered for HP printers and MFPs—for fast, reliable results.

Original HP PageWide pigment cartridges deliver water-, smear-, and fade-resistant documents for archival durability you can count on.<sup>24</sup>

# Engineered for security and fleet management



Help protect your fleet, data, and documents with best-in-class security<sup>1</sup> and management features. Easily integrate these HP PageWide Pro devices into your network, help secure important information, and get the tools you need to work efficiently and confidently.<sup>1</sup>



## Help secure data with PIN printing

Help ensure important documents and confidential information stay secure. Enter a PIN at the device for authentication and retrieve your print job (477, 552, and 577 series only).



## Achieve a high level of privacy and control

Help increase privacy and maintain control. HP JetAdvantage Private Print<sup>29</sup> helps prevent unauthorized access to confidential print jobs stored in the cloud. Users have the flexibility to pick up jobs at any compatible device with secure authentication (477, 552, and 577 series only).



## Assign color use and help control costs

Regulate color use and reduce printing costs. With HP Color Access Control, you can authorize permission to only specific users who need it (477, 552, and 577 series only).<sup>28</sup>



## Help safeguard your fleet

Help secure your fleet with the solution Buyers Laboratory (BLI) calls trailblazing.<sup>30</sup> Optional HP JetAdvantage Security Manager offers an effective, policy-based approach to helping secure HP printing and imaging devices.



## Embedded security for greater protection

Help keep your printer secure from boot up to shut down. Embedded security features like secure boot, secure firmware, and runtime code integrity validation guard against complex threats to your network.



## Customize solutions with top-flight flexibility

Extend the capabilities of your printing environment, using a rich array of easy-to-integrate HP JetAdvantage and third-party partner solutions, including job accounting (477, 552, and 577 series only).



## Manage business printing with ease

Gain comprehensive control of information while providing employees with the access they need to get the job done. Easily manage devices and settings using HP Web Jetadmin with a suite of management features.<sup>18</sup>



## Notes

<sup>1</sup> Best-in-class security features are available only with HP PageWide Pro 400 and 500 series MFPs and printers. 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 [hp.com/go/printersecurityclaims](http://hp.com/go/printersecurityclaims).

<sup>2</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-\$600 USD, \$300-\$800 USD, MFPs \$400-\$800 USD, and MFPs \$400-\$1,000 USD as of November 2015; market share as reported by IDC as of Q3 2015. Actual results may vary. Learn more at [hp.com/go/pagewideclaims](http://hp.com/go/pagewideclaims).

<sup>3</sup> 40% lower color cost-per-page compared with color lasers: Comparison of HP PageWide Pro and Enterprise class devices, not sold under contract, 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 Oct 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 [hp.com/go/learnaboutesupplies](http://hp.com/go/learnaboutesupplies).

<sup>4</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>5</sup> Wireless direct printing is not available with the 452dn and 477dn models. Mobile device needs to be connected directly to the signal of a Wi-Fi Direct®-supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. For details, see [hp.com/go/mobileprinting](http://hp.com/go/mobileprinting). Wi-Fi Direct is a registered trademark of the Wi-Fi Alliance®.

<sup>6</sup> NFC touch-to-print capabilities are not available with the 452dn and 477dn models. Requires a compatible NFC-printing-enabled mobile device. For a list of compatible NFC-printing-enabled mobile devices, see [hp.com/go/nfcprinting](http://hp.com/go/nfcprinting).

<sup>7</sup> Integrated Wi-Fi is not available with the 452dn and 477dn models. Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections.

<sup>8</sup> ISO speeds measured using ISO/IEC 24734. Excludes first page or first set of ISO test pages. For details see [hp.com/go/printerclaims](http://hp.com/go/printerclaims).

<sup>9</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 [hp.com/go/learnaboutesupplies](http://hp.com/go/learnaboutesupplies).

<sup>10</sup> Yield based on ISO 24711 cartridge yields for HP 976Y Extra High Yield Original PageWide Cartridges, which are not included in printer purchase; purchase separately. Comparison based on ISO 24711 cartridge yields for HP 976Y Extra High Yield Original PageWide Cartridges compared with HP 970 series Original PageWide cartridges. Extra-high-yield cartridges are compatible only with HP PageWide Pro 500 series MFPs and printers. Learn more at [hp.com/go/learnaboutesupplies](http://hp.com/go/learnaboutesupplies).

<sup>11</sup> Printing up to 1,050 sheets with optional 500-sheet input tray, not included; please purchase separately.

<sup>12</sup> Printing up to 1,550 sheets with additional paper input trays 3, 4 and mobile cart included with the 577z model only; please purchase separately for the 552dw and 577dw models. Not compatible with the 452dn/dw, and 477dn/dw models.

<sup>13</sup> Duty cycle is defined as the maximum number of pages per month of imaged output.

<sup>14</sup> Feature not available with 452dn/dw models. Feature works with Microsoft® Word and PowerPoint® 2003 and later. Only Latin language fonts are supported.

<sup>15</sup> Measured using ISO/IEC 17629. Exact speed for first page out varies depending on the system configuration, software application, driver, and document complexity. Learn more at [hp.com/go/printerclaims](http://hp.com/go/printerclaims).

<sup>16</sup> Average color composite (C/M/Y) and black declared yields based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see [hp.com/go/learnaboutesupplies](http://hp.com/go/learnaboutesupplies).

<sup>17</sup> Purchase of optional paper tray required to reach maximum input capacity.

<sup>18</sup> HP Web Jetadmin is free and available for download at [hp.com/go/webjetadmin](http://hp.com/go/webjetadmin).

<sup>19</sup> Requires separate purchase. For details, see [hp.com/go/securitymanager](http://hp.com/go/securitymanager).

<sup>20</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

<sup>21</sup> Comparison based on manufacturers' published specifications of fastest available color mode of all color business printers \$300-\$800 USD, MFPs \$400-\$800 USD, and MFPs \$400-\$1,000 USD as of November 2015, excluding products with 1% or lower market share using market share as reported by IDC as of Q3 2015. Learn more at [hp.com/go/printerspeeds](http://hp.com/go/printerspeeds).

<sup>22</sup> Comparison based on manufacturers' published specifications of first page out from ready and sleep mode of all color business printers \$300-\$800 USD, color business MFPs \$400-\$800 USD, and color business MFPs \$400-\$1,000 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 [hp.com/go/printerspeeds](http://hp.com/go/printerspeeds).

<sup>23</sup> Based on internal HP testing of Original HP PageWide cartridges on ColorLok® papers.

<sup>24</sup> Water, smear, fade, and highlighter resistance based on ISO 11798 testing. For details, see [hp.com/go/printpermanence](http://hp.com/go/printpermanence).

<sup>25</sup> Less scheduled maintenance based on 150,000 pages printed, and published comparisons of majority of in-class color laser printers \$300-\$800 USD, color business MFPs \$400-\$800 USD, and color business MFPs \$400-\$1,000 USD as of November 2015; market share as reported by IDC as of Q3 2015. Learn more at [hp.com/go/pagewideclaims](http://hp.com/go/pagewideclaims).

<sup>26</sup> Integrated Wi-Fi is not available with the 452dn and 477dn models. Wireless operations are compatible with 2.4 GHz operations only. App or software and HP ePrint account registration may also be required. Some features require purchase of an optional accessory. Learn more at [hp.com/go/mobileprinting](http://hp.com/go/mobileprinting).

<sup>27</sup> Scan-to functions available for MFP models only. Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see [hpconnected.com](http://hpconnected.com).

<sup>28</sup> HP Color Access Control is available only on HP PageWide Pro devices with a 4.3-inch touchscreen. Learn more at [hp.com/go/pagewidebusiness](http://hp.com/go/pagewidebusiness).

<sup>29</sup> HP JetAdvantage Private Print is not supported by the 452 series model. HP JetAdvantage Private Print is available at no charge and requires that the printer be connected to the Internet with web services enabled. Not available in all countries. For more information, see [hpjetadvantage.com](http://hpjetadvantage.com).

<sup>30</sup> Based on HP internal research on competitor offerings (Device Security Comparison January 2015), and Solutions Report on HP JetAdvantage Security Manager 2.1 from Buyers Laboratory LLC, February 2015. Requires separate purchase. For details, see [hp.com/go/securitymanager](http://hp.com/go/securitymanager).

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