



AFFORDABLE COLOR  
MEETS PREMIUM  
PERFORMANCE

HP PageWide Managed  
MFPs and Printers



# The frontier of color printing

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*Premium color without the added cost: that was the goal we set when creating the next generation of HP PageWide Managed MFPs and Printers. We wanted to deliver a new printing paradigm—affordable color with the quality performance you'd expect from HP printers.*







Ultimately, our teams delivered a line of color printers unlike any other in the market. HP PageWide Managed MFPs and Printers were built with advanced, modern engineering that produces beautiful color prints at an affordable price. HP PageWide Technology delivers fast speeds, fewer moving parts for less maintenance,<sup>1</sup> and uses significantly less energy than laser competitors.<sup>2</sup>

The end result is a premium line of printers that bring ideas brilliantly to life.





## INNOVATION

# HP PageWide Technology

HP PageWide Technology is the secret behind the exceptional speed and reliability of these devices. The printhead spans the entire width of the paper, enabling single-pass printing at incredibly fast speeds. Originally found in top-end digital presses, HP PageWide Technology has recently been scaled to the office.

- Up to 59,136 nozzles that eject ink precisely and accurately for crisp print jobs
- High black and color saturation for professional-quality color documents
- Original HP Ink cartridges produce fast drying water-, smear-, fade-, and highlighter-resistant durable output<sup>3</sup>
- Robust printhead designed to last the life of the printer
- Automatic nozzle testing and substitution that detects and unclogs printheads for consistent print quality over time
- Optional HP ColorSave helps convey key messages with professional-quality black text plus color highlights at a price comparable to black-and-white<sup>4</sup>





### LOW COLOR COST

Depend on lasting value. Get the results you expect from HP PageWide Technology that delivers a game-changing low color cost per page. Print more pages and replace cartridges less often than standard cartridges, using optional Original HP High-Yield cartridges.<sup>5</sup>



### UNMATCHED SPEEDS—AS FAST AS 80 PPM

Cut down on wait time and stay productive. HP PageWide Technology delivers best-in-class print speeds—as fast as 80 pages per minute (ppm)—for both color and black-and-white.<sup>6</sup>



### FEWER PARTS, LESS MAINTENANCE

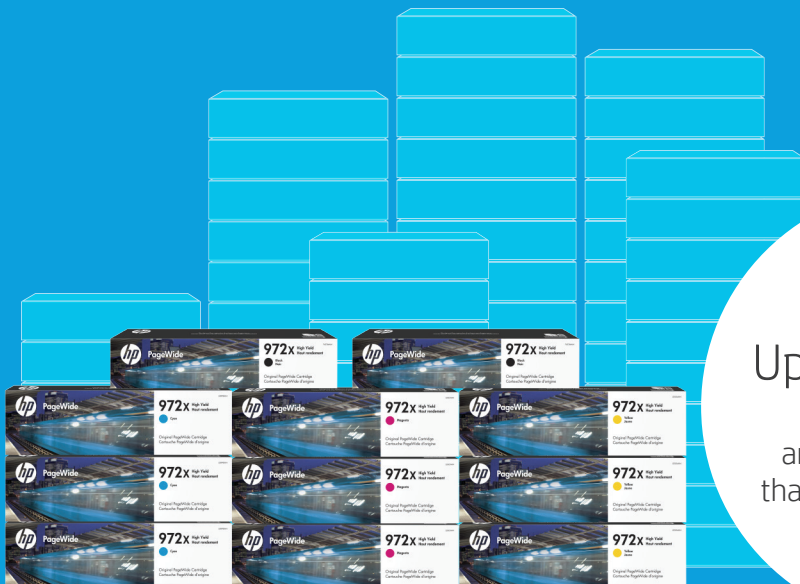
Minimize interruptions with an HP PageWide device designed with the fewest parts in its class for the least maintenance.<sup>1</sup> With HP Smart Device Services, proactive alerts ensure technicians know the right parts and exact procedures before service calls.



### MADE WITH THE ENVIRONMENT IN MIND

HP Managed PageWide MFPs and Printers were designed to reduce waste and the number of unused ink cartridges.

- Up to 70% less energy use than lasers<sup>2</sup>
- Can reduce up to 45% the carbon footprint of printing compared to lasers<sup>7</sup>
- Quiet performance built into the design
- Easy recycling with HP Planet Partners<sup>8</sup>



Up to **77%**  
less supplies  
and packaging waste  
than comparable lasers<sup>2</sup>





## SECURITY

# Security for today and tomorrow

Today, hackers have their eyes on businesses. The most destructive exploits are attacking networks through endpoint devices—and not just PCs, tablets, and smartphones. Networked printers are a new front line, vulnerable to attacks and security breaches. Hackers can intercept printing and imaging jobs traveling over the network from devices to printers, manipulate printer settings and functions from unsecured control panels, and access privileged data via unsecured USB or network ports.

The good news? HP saw it coming. We developed PageWide Managed MFPs and Printers with embedded security features covering device, data, and document risks. These solutions change the equation—transforming networked printers from vulnerabilities to strongpoints.



**5 billion**  
records were exposed in 2018<sup>9</sup>

**59%** of organizations  
reported a print-related data loss  
incident in the past year<sup>10</sup>



### SECURE THE DEVICE

- HP Sure Start monitors and maintains the BIOS
- Whitelisting helps protect the firmware
- Run-time intrusion detection keeps memory safe
- HP Connection Inspector stops suspicious network connections



### SECURE THE DATA

- Authentication helps block unauthorized access
- Encryption helps keep data safe



### SECURE THE DOCUMENT

- Workplace privacy and compliance through secure document workflows
- Anti-counterfeit tools deter tampering and fraud

### Easily manage security across the fleet

HP JetAdvantage Security Manager streamlines fleet management with policy-based print security compliance.<sup>11</sup> HP PageWide Managed MFPs and Printers can send printer event data to Security Information and Event Management (SIEM) tools for real-time threat monitoring.

For more information on HP printing security features, visit [hp.com/go/printerthatprotect](http://hp.com/go/printerthatprotect).





## WORKFLOW

# HP PageWide Managed Flow MFPs

Save time and work smarter with HP PageWide Managed Flow MFPs, which offer advanced workflow capabilities to help you capture the right content quickly, easily, and accurately.



### **EMBEDDED HP EVERYPAGE TECHNOLOGY**

Scan every page and detect potential errors or missed pages on the spot—even when the weight, size, or condition of pages vary.



### **LARGE TOUCHSCREEN CONTROL PANEL**

Advanced imaging and processing options, including send to Microsoft® SharePoint®, built-in OCR, auto-orientation, auto-page-crop, and auto-tone.<sup>12</sup>



### **FAST TWO-SIDED, SINGLE-PASS SCANNING**

Scan faster and more reliably with speeds up to 240 ipm<sup>13</sup> and an extended-life ADF that supports higher recommended monthly scan volumes.



### **LARGE PULL-OUT KEYBOARD FOR SIMPLIFIED DATA ENTRY**

Make scanned documents easier to organize and find by adding information to files and context to your email.



### **BUILT-IN OPTICAL CHARACTER RECOGNITION (OCR)**

The OCR simplifies editable and searchable scans.



### **HP QUICK SETS**

Find the right document workflow every time, and run it correctly at the touch of a button. HP Quick Sets automates all the steps of a complicated workflow, on a full-color touchscreen that's easy to use.



### **AUTO-ORIENTATION, AUTO-PAGE CROP, AND AUTO-TONE**

Advanced document management features simplify production and perfect the contrast, brightness, and background removal of each page.



## SOLUTIONS

# Focus on results

Help reduce costs, increase work efficiency, and accelerate business results with HP JetAdvantage Printing Solutions. Help streamline information workflows by optimizing your IT infrastructures, managing your imaging and printing environments, and improving document-intensive processes.

**HP Roam for Business** offers secure, cloud-based printing from virtually any location and device. Automatically discover nearby HP Roam-enabled printers in the office, in a satellite location, or at a home office.<sup>14</sup> Authenticate, retrieve, and print the job securely—no need to worry about device-to-printer compatibility or connectivity.

**HP Access Control Printing Solutions** help you provide print authentication, authorization, and secure pull-printing capabilities across your organization, and help you protect sensitive information with custom user controls and usage rights; proximity card readers can be attached externally or placed in the Hardware Integration Pocket (HIP) of supported devices.<sup>15,16</sup>

**HP Capture and Route** controls and tracks scanned content once it has been digitized and distributes it to its printing location.

**HP JetAdvantage Partner solutions** offer simple capture programs to sophisticated workflow automation. Current partners providing workflow solutions are Ephesoft Transact, Fenestrae Udocx, Genius Bytes GeniusMFP, Kofax AutoStore, and YSoft SafeQ.

## EXTENSIBILITY

## Forward-thinking adaptability

Technology, capabilities, and user expectations never stop evolving—and HP FutureSmart Firmware and the HP Open Extensibility Platform (OXP) let your printers evolve as well.

FutureSmart firmware extends the life of the printer, offering consistency across the fleet through an intuitive interface that makes fleet-wide updates easier and allows your existing HP devices to be equipped with the same features as next-generation devices.<sup>17</sup>

HP OXP creates a unified environment that makes it easy for third-party software companies to design solutions that integrate seamlessly with enabled imaging and printing.





# Choose the right printer for your needs

## PageWide Managed P-series vs. E-series

Features	PageWide P-series P55250 printer P57750 MFP	PageWide P-series P75250 printer P77440/P77900 MFP series	PageWide E-series
<b>Single-pass, two-sided scanning<sup>13</sup></b>	Up to 26 ipm	Up to 120 ipm	Up to 240 ipm
<b>Device, data, and document security</b>	Best-in-class security with embedded features like secure boot, secure firmware, and run-time code integrity validation <sup>18</sup>  70+/100+ embedded security settings (printers/MFPs)	World's most secure printing with features like HP Sure Start, whitelisting, run-time intrusion detection, and HP Connection Inspector <sup>19</sup>  100+/200+ embedded security settings (printers/MFPs)	World's most secure printing with features like HP Sure Start, whitelisting, run-time intrusion detection, and HP Connection Inspector <sup>19</sup>  100+/250+ embedded security settings (printers/MFPs)
<b>Memory upgrade</b>	Not available	Optional 1 GB RAM memory upgrade Optional 2 GB RAM memory upgrade	Optional 1 GB RAM memory upgrade
<b>Extensibility</b>	Extensibility through HP Open Extensibility Platform (OXP) with job accounting, supports proximity cards	Extensibility through HP Open Extensibility Platform (OXP) with job accounting, supports proximity cards	Full extensibility through HP OXP, upgradeable HP FutureSmart Firmware, Hardware Integration Pocket (HIP), HP High-Performance Secure Hard Disk
<b>Flow features</b>	Not available	Not available	Pull-out keyboard, HP EveryPage, embedded OCR, send to Microsoft SharePoint (z/zs/z+ models only); inner finisher (dns/zs models only) and external finisher (dn+/z+ models only)





# Meet the HP A3 PageWide Managed P-series and E-series

The next generation of PageWide printers

Business moves fast, and slowing down means falling behind. It's why HP created the next generation of HP PageWide Managed MFPs and printers—to combine productivity with a smart, efficient design that's ahead of its time. Our latest HP PageWide Managed MFPs and Printers redefine excellence with ground-breaking HP PageWide printing innovations:

- Support for paper sizes up to 12 x 18 inches
- Higher input (up to 5,200 sheets)<sup>20</sup>
- Higher RMPV (up to 75,000 pages)<sup>21</sup>
- Faster simplex and duplex scan speeds (simplex up to 120 ipm, duplex up to 240 ipm)<sup>13</sup>
- Device-based sensing capabilities that monitor and diagnose many service needs

For more information on the latest HP A3 PageWide devices, watch the video [here](#).\*

\*<https://youtu.be/0k8YWJgdkB4>

# HP A3 PageWide Managed Portfolio



## Color A3

25 ppm price class



**PageWide  
Managed MFP  
P77440**

Up to 60 ppm<sup>22</sup>

Up to 5,200  
input<sup>20</sup>

Up to 30,000  
RMPV<sup>21</sup>

**PageWide  
Managed MFP  
P77940**

Up to 60 ppm<sup>22</sup>

Up to 4,650  
input<sup>20</sup>

Up to 30,000  
RMPV<sup>21</sup>

35 ppm price class



**PageWide  
Managed  
P75250**

Up to 70 ppm<sup>22</sup>

Up to 4,650  
input<sup>20</sup>

Up to 40,000  
RMPV<sup>21</sup>

**PageWide  
Managed MFP  
P77950**

Up to 70 ppm<sup>22</sup>

Up to 4,650  
input<sup>20</sup>

Up to 40,000  
RMPV<sup>21</sup>

**PageWide  
Managed MFP  
E77650**

Up to 70 ppm<sup>22</sup>

Up to 4,650  
input<sup>20</sup>

Up to 40,000  
RMPV<sup>21</sup>

45 ppm price class



**PageWide  
Managed MFP  
P77960**

Up to 80 ppm<sup>22</sup>

Up to 4,650  
input<sup>20</sup>

Up to 50,000  
RMPV<sup>21</sup>

**PageWide  
Managed  
E75160**

Up to 80 ppm<sup>22</sup>

Up to 4,650  
input<sup>20</sup>

Up to 50,000  
RMPV<sup>21</sup>

**PageWide  
Managed MFP  
E77660**

Up to 80 ppm<sup>22</sup>

Up to 5,200  
input<sup>20</sup>

Up to 50,000  
RMPV<sup>21</sup>

## HP A3 PageWide accessories

Our A3 features go beyond the printed document. HP offers optional input and finishing accessories to help you feed multiple sizes of paper, organize, staple, hole-punch, and bind content together to deliver a truly professional printing experience.



550-sheet tray



550-sheet tray  
and stand



3x550-sheet tray  
and stand



4,000-sheet  
HCl paper tray and  
stand



350-sheet  
inner finisher  
with stapler<sup>23</sup>



3,250-sheet  
external finisher  
with stapler<sup>23</sup>





# HP A4 PageWide Managed Portfolio

Color A4

35 ppm price class



**PageWide  
Managed  
P55250**

Up to 75 ppm<sup>22</sup>

Up to 1,550  
input<sup>20</sup>

Up to 7,500  
RMPV<sup>21</sup>



**PageWide  
Managed MFP  
P57750**

Up to 75 ppm<sup>22</sup>

Up to 1,550  
input<sup>20</sup>

Up to 7,500  
RMPV<sup>21</sup>



**PageWide  
Managed  
E55650**

Up to 75 ppm<sup>22</sup>

Up to 2,050  
input<sup>20</sup>

Up to 15,000  
RMPV<sup>21</sup>



**PageWide  
Managed MFP  
E58650**

Up to 75 ppm<sup>22</sup>

Up to 2,050  
input<sup>20</sup>

Up to 15,000  
RMPV<sup>21</sup>

## HP A4 PageWide accessories

Add features to your HP A4 PageWide Managed MFPs and printers for a customized user experience that fits your workplace needs.



500-sheet tray and  
stand (P55250,  
P57750)



2x500-sheet tray  
and stand (P55250,  
P57750)



Single cabinet and  
stand (E55650,  
E58650)



3x500-sheet tray  
and stand (E55650,  
E58650)

## HP A3 PageWide Managed MFPs and Printers

	HP PageWide Managed E75160dn	HP PageWide Managed MFP E77650dn/dns, Flow MFP E77650z/zs/z+	HP PageWide Managed MFP E77660dn/dns, Flow MFP E77660z/zs/z+
<b>Product number</b>	E75160dn: J7Z06A	E77650dn: J7Z13A E77650dns: Z5G79A E77650z: J7Z08A E77650zs: J7Z14A E77650z+: Z5G76A	E77660dn: ZG577A E77660dns: 2LF96A E77660z: J7Z03A E77660zs: J7Z07A E77660z+: Z5G78A
<b>Control panel</b>	4.3-inch (10.9 cm) color touchscreen	9.0-inch (22.8 cm) functional touchscreen with 8.0-inch (20.3 cm) Color Graphics Display	
<b>Print speed<sup>22</sup></b>	Single-sided: Up to 60/80 ppm, Professional/General office (GO) mode (black and color) Two-sided: Up to 42 ipm, Professional mode (black and color)	Single-sided: Up to 50/70 ppm, Professional/GO mode (black and color) Two-sided: Up to 35 ipm, Professional mode (black and color)	Single-sided: Up to 60/80 ppm, Professional/GO mode (black and color) Two-sided: Up to 42 ipm, Professional mode (black and color)
<b>First page out<sup>24</sup></b>	Black and color: as fast as 6.5 seconds from ready mode	Black and color: as fast as 7.1 seconds from ready mode	
<b>Scan features<sup>13</sup></b>	Scan features not available	Simplex scan speed: Up to 120 ppm (black and color) Duplex scan speed: Up to 240 ipm (black and color)	
<b>Additional features</b>	Hardware Integration Pocket, embedded HP High-Performance Secure Hard Disk		
<b>Flow features</b>	Not available	Pull-out keyboard, HP EveryPage, embedded OCR, send to Microsoft SharePoint (z/zs/z+ models only)	
<b>Input<sup>20</sup></b>	Standard: Up to 550 sheets; Maximum (with optional accessories): Up to 4,650 sheets (all models)		
<b>RMPV<sup>21</sup></b>	2,500 to 50,000 pages	2,500 to 40,000 pages	2,500 to 75,000 pages

	HP PageWide Managed P75250dn	HP PageWide Managed MFP P77440dn, P77940dns	HP PageWide Managed MFP P77950dn/dns	HP PageWide Managed MFP P77960dn/dns
<b>Product number</b>	P75250dn: Y3Z49A	P77440dn: Y3Z60A P77940dns: Y3Z64A	P77950dn: Y3Z62A P77950dns: Y3Z66A	P77960dn: Y3Z63A P77960dns: Y3Z68A
<b>Control panel</b>	4.3-inch (10.9 cm) color touchscreen	P77440dn: 4.3-inch (10.9 cm) color touchscreen P77940dns: 9.0-inch (22.8 cm) functional touchscreen with 8.0-inch (20.3 cm) Color Graphics Display	9.0-inch (22.8 cm) functional touchscreen with 8.0-inch (20.3 cm) Color Graphics Display	9.0-inch (22.8 cm) functional touchscreen with 8.0-inch (20.3 cm) Color Graphics Display
<b>Print speed<sup>22</sup></b>	Single-sided: up to 50/70 ppm, Professional/GO (black and color) Two-sided: up to 35 ipm, Professional (black and color)	Single-sided: up to 40/60 ppm, Professional/GO (black and color) Two-sided: up to 28 ipm, Professional (black and color)	Single-sided: up to 50/70 ppm, Professional/GO (black and color) Two-sided: up to 35 ipm, Professional (black and color)	Single-sided: up to 60/80 ppm, Professional/GO (black and color) Two-sided: up to 40 ipm, Professional (black and color)
<b>First page out<sup>24</sup></b>	From ready (letter/A4): as fast as 7.6/7.3 seconds, black; as fast as 7.6/7.5 seconds, color	From ready (letter and A4): as fast as 8 seconds, black; as fast as 8.3 seconds, color	From ready (letter/A4): as fast as 7.6/7.7 seconds, black; as fast as 7.9/8 seconds, color	From ready (letter and A4): as fast as 6.7 seconds, black; as fast as 6.9 seconds, color
<b>Scan features<sup>13</sup></b>	Not available	Up to 60 ppm/120 ipm, simplex/duplex (black and color) (all MFP models)		
<b>Additional features</b>	Hardware Integration Pocket (all models except P77440dn)			
<b>Input<sup>20</sup></b>	Standard: Up to 550 sheets; Maximum (with optional accessories): Up to 5,200 sheets (P77440dn only); Up to 4,650 sheets (all other models)			
<b>RMPV<sup>21</sup></b>	2,500 to 40,000 pages	2,500 to 30,000 pages	2,500 to 40,000 pages	2,500 to 50,000 pages



## HP A4 PageWide Managed MFPs and Printers

HP PageWide Managed E55650dn		HP PageWide Managed E58650dn, Flow MFP E58650z
<b>Product number</b>	E55650dn: L3U44A	E58650dn: L3U42A E58650z: L3U43A
<b>Control panel</b>	4.3-inch (10.9 cm) color touchscreen	9.0-inch (22.8 cm) functional touchscreen with 8.0-inch (20.3 cm) Color Graphics Display
<b>Print speed<sup>22</sup></b>	Single-sided: Up to 50/75 ppm, Professional/General office (GO) mode (black and color) Two-sided: Up to 25 ipm, Professional mode (black and color)	
<b>First page out<sup>24</sup></b>	Black and color: as fast as 7.1/7.3 seconds from ready mode	
<b>Scan features<sup>13</sup></b>	Scan features not available	Simplex scan speed (letter/A4): dn model: Up to 46/44 ipm, black; Up to 42/40 ipm, color z model: Up to 47/45 ipm, black and color Duplex scan speed (letter/A4): dn model: Up to 46/44 ipm, black; Up to 42/40 ipm, color z model: Up to 74/70 ipm, black and color
<b>Additional features</b>	Hardware Integration Pocket	Hardware Integration Pocket, embedded HP High-Performance Secure Hard Disk
<b>Flow features</b>	Not available	Pull-out keyboard, HP EveryPage, embedded OCR, send to Microsoft SharePoint ( <i>z model only</i> )
<b>Input<sup>20</sup></b>	Standard: Up to 550 sheets; Maximum: Up to 2,050 sheets (with optional accessories)	
<b>RMPV<sup>21</sup></b>	2,000 to 15,000 pages	

HP PageWide Managed P55250dw		HP PageWide Managed MFP P57750dw
<b>Product number</b>	P55250dw: J6U55	P57750dw: J9V82
<b>Control panel</b>	4.3-inch (10.9 cm) color touchscreen	
<b>Print speed<sup>22</sup></b>	Single-sided: Up to 50/75 ppm, Professional/GO mode (black and color) Two-sided: Up to 25/38 ipm, Professional/GO mode (black and color)	
<b>First page out<sup>24</sup></b>	Black and color: as fast as 6 seconds from ready mode	
<b>Scan features<sup>13</sup></b>	Scan features not available	Simplex scan speed: Up to 25/20 ipm, letter/A4 (black and color) Duplex scan speed: Up to 26/22 ipm, letter/A4 (black and color)
<b>Input<sup>20</sup></b>	Standard: Up to 550 sheets; Maximum: Up to 1,550 sheets (with optional accessories)	
<b>RMPV<sup>21</sup></b>	1,000 to 7,500 pages	

## Optional input and finishing accessories - HP A3 and A4

Devices	Compatible accessories
PageWide Managed P75250 printer, P77440 MFP, P77940 MFP, P77950 MFP, P77960 MFP, E75160 printer, E77650 MFP, E77660 MFP	Input: 550-sheet Paper Tray (P1V16A), 550-sheet Paper Tray/Stand (P1V17A), 3x550-sheet Paper Tray/Stand (P1V18A), 4,000-sheet HCl Paper Tray/Stand (P1V19A) Output: 350-sheet inner finisher with stapler (P77940/50/60dns, E77650dns, E77660dns, Flow MFP E77650zs, and Flow MFP E77660zs); <sup>23</sup> 3,250-sheet external finisher with stapler (Z4L04A) (Flow MFP E77650z+ and Flow MFP E77660z+ only); <sup>23</sup> 2/3 hole punch (Y1G10A); Swedish hole punch (Y1G12A), Staple refill cartridge (Y1G14A)
PageWide Managed P55250 printer, P57750 MFP	Input: 1x500 Feeder/Stand (D3Q23-64001), 3x500 Feeder/Stand (POV04), HP PageWide Pro 500-sheet Paper Tray (D3Q23A), HP PageWide Pro 2x500-sheet Paper Tray and Stand (POV04A) Output: Not applicable
PageWide Managed E55650 printer, E58650 MFP	Input: 1x500 Feeder (G1W43), Single Cabinet/Stand (G1W44/G1W44A), 3x500 Feeder/Stand (G1W45A), HP PageWide Enterprise 500-sheet Paper Tray (G1W43A), HP PageWide Enterprise Printer Cabinet and Stand (G1W44A), HP PageWide Enterprise 3x500-sheet Paper Tray and Stand (G1W45A) Output: Not applicable



# HP Financial Services

HP Financial Services (HPFS) can help you deliver a complete PageWide print solution to your customer and accelerate their transition to new HP technology, while allowing them to preserve budget for other priorities. As HP's preferred financing partner, HPFS has flexible financing solutions to meet your customer's unique business needs.<sup>25</sup>



For more information, visit

[hp.com/go/managedA3](https://hp.com/go/managedA3)

1. Fewer service parts claim based on HP analysis of leading in-class A3 color laser printers and MFPs as of February 2018; calculations use publicly available and/or published manufacturer rated yields for long-life consumables and assume 600,000 pages printed (using a 60% black/40% color ratio). Learn more at [hp.com/go/pagewideclaims](https://hp.com/go/pagewideclaims). 2. Energy consumption .835 kWh/week based on Keypoint Intelligence/Buyer's Laboratory test report "HP PageWide Managed Color Flow MFP E77650z vs. Competitive Laser Models," January 2019. 3. Water, smear, fade, and highlighter resistance based on ISO 11798 and internal HP testing. For details, see [hp.com/go/printpermanence](https://hp.com/go/printpermanence). 4. HP ColorSave is available on select HP PageWide Managed MFPs using Original HP PageWide cartridges and through authorized HP Premier partners. 5. High-yield cartridges are not included in printer purchase; purchase separately. Comparison is based on ISO 24711 cartridge yields for High-Yield Original PageWide Cartridges compared with standard-yield Original PageWide Cartridges. Learn more at [hp.com/go/learnaboutsupplies](https://hp.com/go/learnaboutsupplies). 6. Comparison of HP PageWide A3 devices with leading in-class color ink/laser MFPs (\$3,000-\$11,299 and €2,820-€11,199), and color ink/laser single function printers (\$1,500-\$4,799 and €1,410-€4,599) as of February 2018; market share as reported by IDC as of Q3 2017, excluding other HP PageWide products. HP PageWide speeds based on General Office mode and exclude first page. Learn more at [hp.com/go/printerspeeds](https://hp.com/go/printerspeeds). 7. Carbon dioxide equivalent (CO2e) savings based on the average lifetime use of printing 100,000 pages, and excluding paper. Peer-reviewed life cycle assessment models commissioned by HP and conducted by thinkstep for inkjet (August 2016) and LaserJet (May 2016) and updated in 2018 comparing to comparable models of HP Color Laserjets. Specific results run by HP internal LCA experts. 8. Program availability varies. For more information, visit [hp.com/recycle](https://hp.com/recycle). 9. 5 billion records: 2018 Year End Data Breach QuickView Report by Risk Based Security / Cyber Risk Analytics, <https://pages.riskbasedsecurity.com/2018-ye-breach-quickview-report>, February 2019. 10. Quocirca Global Print Security Study, Louella Fernandes, January 2019. 11. HP JetAdvantage Security Manager must be purchased separately. To learn more, please visit: [hp.com/go/securitymanager](https://hp.com/go/securitymanager). 12. Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see [hpconnected.com](https://hpconnected.com). 13. Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. 14. Subscription or accessory may be required. For more information, visit [hp.com/go/roam](https://hp.com/go/roam). To enable HP Roam for Business, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth Low Energy (BLE) beaconing capabilities. Customer can purchase the HP Jetdirect 3100w BLE/NFC/Wireless accessory or the RadBeacon USB. 15. Color-access-control capabilities vary from device to device. 16. Additional solution such as HP Access Control is required to use optional proximity card reader. HP Proximity Card Reader (CZ208A) is available for separate purchase for select HP devices with Hardware Integration Pocket (HIP) and touchscreen display. Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase. 17. Some features enabled by future HP FutureSmart upgrades may not be available on older devices if, for example, physical product characteristics limit the functionality of the new feature. 18. Best-in-class security claim based on HP review of published embedded security features of competitive in-class pro printers as of January 2016. For more information, visit [hp.com/go/printersecurityclaims](https://hp.com/go/printersecurityclaims). 19. Based on HP review of 2018 published security features of competitive in-class printers. Only HP offers a combination of security features that can monitor to detect and automatically stop an attack then self-validate software integrity in a reboot. For a list of printers, visit: [hp.com/go/PrintersThatProtect](https://hp.com/go/PrintersThatProtect). For more information, visit: [hp.com/go/printersecurityclaims](https://hp.com/go/printersecurityclaims). 20. Purchase of optional paper trays required to reach maximum input capacity. 21. 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. 22. Measured using ISO/IEC 24734 in non-default general office print mode. Default professional print mode speed, measured using ISO/IEC 24734, is 20 ppm less than general office print mode. 23. The 350-sheet inner finisher is available on the HP PageWide Managed Color MFP P77940/50/60dns, E77650dns, E77660dns, Flow MFP E77650zs, and Flow MFP E77660zs models only. Those models have a maximum output capacity of 850 sheets. The 3,250-sheet external finisher is a required accessory for the HP PageWide Managed Color Flow MFP E77650z+ and Flow MFP E77660z+ models. Those models have a maximum output capacity of 3,250 sheets. Models without the inner or external finisher have a maximum output capacity of 500 sheets. 24. 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](https://hp.com/go/printerclaims). 25. Financing and service offerings available through Hewlett-Packard Financial Services Company and its subsidiaries and affiliates (collectively HPFSC) in certain countries and is subject to credit approval and execution of standard HPFSC documentation. Rates and terms are based on customer's credit rating, offering types, services and/or equipment type and options. Not all customers may qualify. Not all services or offers are available in all countries. Other restrictions may apply.

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