Data sheet

HP PageWide Managed Color Flow MFP E77650zs

The new printing paradigm

HP Managed MFPs and printers are optimised for managed environments. Offering increased monthly page volumes and fewer interventions, this portfolio of products can help reduce printing and copying costs. See your HP Authorised Reseller for details.

Dynamic security enabled printer. Only intended to be used with cartridges using an HP original chip. Cartridges using a non-HP chip may not work, and those that work today may not work in the future. Learn more at: http://www.hp.com/go/learnaboutsupplies

Affordable colour printing for every office

- Depend on lasting value. Get the results you expect for a game-changing low cost per colour page.

- Print more pages and replace cartridges less often with optional high-yield cartridges.[1]

- Print even faster – and save even more per page – by setting this printer to General Office mode.[2]

- Help keep energy costs down with the most efficient printer in its class.[3]

Minimal interruptions. Maximum uptime.

- Minimise interruptions with an HP PageWide Managed printer designed for the least maintenance in its class.[4]

- Print speeds up to 50% faster than competitors – as fast as 80 ppm in colour and black-and-white.[5]

- Tailor this MFP to the needs of your business with a wide range of paper-handling accessories.

- Scan files directly to Microsoft® Office 365 and SharePoint, plus email, USB, and network folders.[6]

The world's most secure printing[7]

- With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.

- Protect information on the MFP and in transit over the network, and store data on the encrypted hard disk.[8]

- Monitor activity to detect and stop attacks, then automatically reboot with run-time intrusion detection.

- Whitelisting checks firmware during startup to help ensure it's authentic, good code – digitally signed by HP.

Give workgroups the speed they need

- Help workgroups capture every page easily and detect potential errors or missed pages – every time.

- Enter data more quickly and accurately using the pull-out keyboard.

- Help ensure every scanned document is properly oriented, cropped to size, and grayscale-optimised.

- Load up to 200 pages into the automatic document feeder for fast, unattended scanning.

A3/11x17" media handling

Color touchscreen

2-sided printing

HP PageWide Technology

Product walkaround

HP PageWide Managed Color Flow E77650zs shown

1. 8.0 inch (20.3 cm) pivoting color touchscreen
2. Hardware Integration Pocket
3. Easy-access USB printing port
4. Retractable keyboard
5. Front door access to cartridges
6. 100-sheet multipurpose tray 1 supports media up to 12 x 18 inches (305 x 457 mm)
7. Automatic two-sided printing
8. 550-sheet tray 2 supports media up to 11.7 x 17 inches (297 x 432 mm)
9. 200-sheet ADF with single-pass, two-sided scanning with HP EveryPage supports media up to 11.7 x 17 inches (297 x 432 mm)
10. Flatbed scanner handles sheets up to 11.7 x 17 inches (297 x 432 mm)
11. 350-sheet inner finisher with stapler
12. 500-sheet output bin
13. Ethernet port, 2 Hi-Speed USB 2.0 Host ports, Hi-Speed USB 2.0 Device port

Accessories, Supplies and Support

Accessories	**P1V16A** HP PageWide 550-sheet Paper Tray
	P1V17A HP PageWide 550-sheet Paper Tray and Cabinet
	P1V18A HP PageWide 3x550 sheet Paper Tray and Stand
	P1V19A HP PageWide 4000 sheet High-capacity Paper Tray and Stand
	W1B43A HP PageWide Printhead Wiper Kit
	W1B44A HP PageWide Service Fluid Container
	W1B45A HP PageWide Roller Kit
Supplies	**M0K29XC** HP 991XC High Yield Black Contract Original PageWide Cartridge (22,000 pages) **M0K06XC** HP 991XC High Yield Cyan Contract Original PageWide Cartridge (16,000 pages) **M0K10XC** HP 991XC High Yield Magenta Contract Original PageWide Cartridge (16,000 pages) **M0K25XC** HP 991XC High Yield Yellow Contract Original PageWide Cartridge (16,000 pages)
Service and support	**U9RL1E** HP 1 year Next Business Day Service with Defective Media Retention for PageWide Colour 776xx Managed **U9RL2E** HP 3 year Next Business Day Service with Defective Media Retention for PageWide Colour 776xx Managed **U9RL3E** HP 4 year Next Business Day Service with Defective Media Retention for PageWide Colour 776xx Managed **U9RL4E** HP 5 year Next Business Day Service with Defective Media Retention for PageWide Colour 776xx Managed **U9RM2PE** HP 1 year Post Warranty Next Business Day Service with Defective Media Retention for PageWide Colour 776xx Managed **U9RM3PE** HP 2 year Post Warranty Next Business Day Service with Defective Media Retention for PageWide Colour 776xx Managed

Technical specifications

Model	HP PageWide Managed Color Flow MFP E77650zs – Bundle Product 50 ppm
Product number	J7Z14A
Functions	Print, copy, scan, fax (optional)
Control panel	20.3 cm (8.0 in) Colour Graphics Display (CGD) with touchscreen; Rotating (adjustable angle) display; Illuminated Home button (for quick return to the Home menu); USB High-speed 2.0 port; Hardware Integration Pocket

Print	
Print technology	HP PageWide Technology
Print speed[1]	**Black (A4, ISO)**: Up to 50 ppm; **Colour (A4, ISO)**: Up to 50 ppm; **Black (A4, duplex)**: Up to 35 ppm; **Colour (A4, duplex)**: Up to 35 ppm; **Black (General Office)**: Up to 70 ppm; **Colour (General Office)**: Up to 70 ppm
First page out[2]	**Black (A4, ready)**: As fast as 7.1 sec; **Colour (A4, ready)**: As fast as 7.1 sec; **Black (A4, sleep)**: As fast as 17.4 sec; **Colour (A4, sleep)**: As fast as 17.4 sec
Print resolution	**Black (best)**: 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 (best)**: Up to 2400 x 1200 optimised dpi from 600 x 600 input dpi (on HP Advanced Photo Papers); **Technology**: HP PageWide Technology up to 1200 x 1200 optimised dpi from 600 x 600 input dpi
Monthly duty cycle	Up to 200,000 pages (A4); **Recommended monthly page volume:** 2,500 to 50,000
Printer smart software features	HP SureStart; Run-time Intrusion detection; Whitelisting; HP Trusted Platform Module; HP JetAdvantage Security Manager; HP Web Jetadmin; Open Extensibility Platform; FutureSmart Firmware; HP ePrint; Apple AirPrint™; HP Auto-On/Auto-Off technology; HP Colour Access Control; HP EasyColour; Front-facing USB printing; Store print jobs; HP EasyColour; 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 Greyscale and Black Ink Only; General Office/Professional/Presentation dpi print modes; Optional: HP and third party extensibility solutions; Wireless
Standard print languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation; PDF 1.7
Fonts and typefaces	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP Postscript level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono WorldType); 2 Internal Windows Vista 8 Fonts (Calibri, Cambria); Additional font solutions available via third-party flash memory cards; HP LaserJet Fonts and IPDS Emulation available at http://www.hp.com/go/laserjetfonts
Print area	**Print margins**: Top: 4.23 mm, Bottom: 4.23 mm, Left: 4.23 mm, Right: 4.23 mm; **Maximum print area**: 4.23 mm
Borderless Printing	No
Print cartridges number	4 (1 each black, cyan, magenta, yellow)
Multitasking supported	Yes
Memory card compatibility	144-pin DDR3 DIMM
Duplex printing	Automatic (standard) Manual (driver support provided)

Copy	
Copy speed	**Black (A4, ISO)**: Up to 50 cpm; **Colour (A4, ISO)**: Up to 50 cpm
Copier specifications	Two-sided copying, scalability, image adjustments (darkness, contrast, background cleanup, sharpness), N-up, N or Z-ordering, content orientation, collation, booklet, ID Scan, job build, edge-to-edge, job storage; **Maximum number of copies**: Up to 9,999 copies; **Copy resolution**: Up to 600 x 600 dpi; **Reduce/Enlarge**: 25 to 400%
Copier smart software features	Auto scale; Reduce/enlarge from scanner glass (25 to 400 percent); Collate; Auto colour detection; Two-sided copying; Image adjustments (darkness, background cleanup, sharpness); Job build

Scan	
Scan speed	**Normal (A4)**: Up to 120 ipm simplex and up to 240 ipm duplex; **Duplex (A4)**: Up to 120 ipm simplex and up to 240 ipm duplex
Scan file format	Digital Send: PDF, JPEG, TIFF, MTIFF, XPS, PDF/A, TEXT (OCR), Unicode TEXT (OCR), RTF (OCR), Searchable PDF (OCR), Searchable PDF/A (OCR), HTML (OCR), CSV (OCR); Scan to easy access USB: PDF, JPEG, TIFF, MTIFF, XPS, PDF/A, TEXT (OCR), Unicode TEXT (OCR), RTF (OCR), Searchable PDF (OCR), Searchable PDF/A (OCR), HTML (OCR), CSV (OCR); Print from easy access USB: PDF, PS, Print Ready files (.prn, .pcl, .cht)
Scanner specifications	**Scanner type**: Flatbed, ADF **Scan technology**: Charge Coupled Device (CCD) & Contact Image Sensor (CIS); **Twain version**: Version 2.1; **Duplex ADF scanning**: Yes, single-pass duplexing ADF; **Scan size maximum (flatbed, ADF)**: 297 x 432 mm; **Optical scan resolution**: Up to 600 ppi
Scanner Advanced Features	Optimise text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect colour; Edge erase; Job notification; Blank page suppression; HP Quick Sets; HP EveryPage; Auto orientation; Embedded Optical Character Recognition (OCR); Auto crop to page; Auto-tone
Scannable area	**Maximum media size (flatbed)**: 297 x 432 mm; **Minimum media size (ADF)**: 68 x 148 mm; **Maximum media size (ADF)**: 297 x 432 mm; Up to 297 x 864 mm when "long scan size" selected
Bit depth/ Grey scale levels	24-bit / 256
Digital sending	**Standard**: Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to FTP; Send to LAN Fax; Send to Internet Fax; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Colour Sense; Auto Crop To Content; Compact PDF

Fax	
Fax[3]	Optional, 33.6 kbps
Fax specifications	**Fax resolution**: Standard: 204 x 98 dpi; Fine: 204 x 196 dpi; **Quick dialing**: Up to 1000 numbers (each with 210 destinations);
Fax smart software features	Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule

Processor speed	1.2 GHz

Connectivity	
Standard	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket
Optional	HP Jetdirect 3000w NFC/Wireless Accessory J8030A, HP Jetdirect 2900nw Print Server J8031A
Wireless	Optional, enabled with purchase of a hardware accessory
Mobile printing capability	HP ePrint, Apple AirPrint™, Google Cloud Print
Supported network protocols	IPv4/IPv6: Apple Bonjour Compatible (Mac OS v10.2.4 or higher), SNMPv1/v2c/v3, HTTP, HTTPS, FTP, TFTP, Port 9100, LPD, WS Discovery, IPP, Secure-IPP, IPsec/Firewall; IPv6: DHCPv6, MLDv1, ICMPv6; IPv4: Auto-IP, SLP, Telnet, IGMPv2, BOOTP/DHCP, WINS, IP Direct Mode, WS Print

Model	**HP PageWide Managed Color Flow MFP E77650zs – Bundle Product 50 ppm**
Product number	J7Z14A
Network capabilities	Via HP Jetdirect Ethernet embedded print server (standard) supports: 10Base-T, 100Base-Tx , 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec (standard)
Memory	**Standard**: 5632 MB; **Maximum** : 5632 MB
Paper handling	
Number of paper trays	**Standard**: 2; **Maximum**: 5
Media types	Paper (Plain, Inkjet, Inkjet Brochure/Glossy), Photo Paper, Envelopes, Labels, Cards
Media size	**Custom (metric)**: Tray 1: 99.1 x 127 to 304.8 x 457.2 mm; Tray 2-5: 210.1 x 148.1 to 297.2 x 431.8 mm; HCI Trays 3 & 4: A4 **Supported (metric)**: A3; A4; A4-R; A5; A5-R; A6; RA3; RA4; SRA4; B4; B5 (JIS); 8K (270 x 390 mm); 16K (195 x 270 mm); 8k (260 x 368 mm); 16k (184 x 260 mm); 8k (273 x 394 mm); 16k (197 x 273 mm); Officio 216 x 340 mm **ADF**: A3; Ledger; B4-JIS; A4; B5-JIS; A5; B6-JIS; A6
Media handling	**Standard input**: 100-sheet multipurpose tray, 550-sheet input tray **Standard output**: 500-sheet output bin; 350-sheet stapler stacker **Optional input**: 1 x 550/tray (A3/A4), 1 x 550/stand (A3/A4), 3 x 550/stand (A3/A4), HCI (2 x 2,000 sheet A4) **ADF**: Standard, 200 sheets
Media weight	Tray 1: 60-220 g/m², 300 g/m² Photo Paper Only; Trays 2-5: 60-220 g/m²; HCI trays 3 & 4: 60-220 g/m²; **ADF**: 45 to 199 g/m²
Input capacity	**Standard**: Up to 650 sheets (MP: Up to 100 sheets; Tray 2: Up to 550 sheets) **Maximum**: Up to 4,650 sheets **ADF**: Standard, 200 sheets
Output capacity	**Standard**: Up to 850 sheets Envelopes: Up to 50 envelopes Labels: Up to 200 labels Cards: Up to 325 cards **Maximum**: Up to 850 sheets
Software included	HP Connected, HP Device Experience (DXP), HP PCL 6 Printer Driver, HP Software Installer/Uninstaller, Mac OS Welcome Screen (Directs users to http://www.123.HP.com or OS App Source for printer software); Online user manuals
Security management	Identity Management: Kerberos authentication, LDAP authentication, 1000 user PIN codes, optional HP and third-party advanced authentication solutions (e.g., badge readers); Network: IPsec/firewall with Certificate, Pre-Shared Key, and Kerberos authentication, Supports WJA-10 IPsec configuration Plug in, 802.1X authentication (EAP-PEAP, EAP-TLS), SNMPv3, HTTPS, Certificates, Access Control List, HP Trusted Platform Module (TPM) comes standard; Data: Storage Encryption, Encrypted PDF & Email (uses FIPS 140 validated cryptographic libraries from Microsoft), Secure Erase, SSL/TLS (HTTPS), Encrypted Credentials; Device: Security lock slot, USB port disablement, Hardware Integration Pocket for security solutions, 18 Intrusion Detection with Red Balloon Security Technology (Constant in-device monitoring for attacks), HP Sure Start Secure Boot (BIOS integrity checking with self-healing capability), Whitelisting (loads only known good code (DLLs, EXEs, etc.); Security Management: Compatible with HP JetAdvantage Security Manager, 21 Device Security Syslog Messages processed and accessible in ArcSight and Splunk SIEMs; For more security settings go to http://h10032.www1.hp.com/ctg/Manual/c03602120
Printer management	HP JetAdvantage Security Manager; HP SNMP Proxy Agent; HP Web JetAdmin Software; HP WS Pro Proxy Agent; Printer Administrator Resource Kit for HP Universal Print Driver
Dimensions and Weight	
Printer dimensions (W x D x H)	**Minimum**: 813 x 616 x 791 mm; **Maximum**: 896 x 718 x 791 mm
Package dimensions (W x D x H)	790 x 760 x 1000 mm
Printer weight	82 kg
Package weight	97 kg
Operating environment	**Temperature**: 15 to 30ºC; **Humidity**: 30 to 70% RH
Storage	**Temperature**: Before initial setup (Non-Purged): -40 to 60ºC; After initial setup (Purged): 0 to 60ºC. If stored below the lowest specified operating temperature, unit must slowly warm up to an approved operating temperature (HP recommends waiting 24 hours at approved operating temperature prior to using the printer). **Humidity**: 10 to 80% RH
Acoustics	**Acoustic power emissions**: 6.6 B(A);
Power	**Requirements**: Input voltage: 100 to 240 VAC, 50/60 Hz; **Consumption**: 660 watts (print/copy), 42 watts (ready), 1.6 watts (sleep), 0.2 watts (auto-off), 0.2 watts (off); **Typical Electricity Consumption (TEC)⁴**: Blue Angel: 1.97 kWh/Week; Energy Star: 2.03 kWh/Week; **Blue Angel (Sleep mode)**: Test 2 (Blue Angel); **Blue Angel (Normal mode)**: Test 3 (Blue Angel); **Power supply type**: Internal (Built-in) power supply
Energy savings feature technology	HP Auto-on/Auto-off Technology
Certifications	CISPR 22:2008 Class A, CISPR 32:2012 Class A, EN 55032:2012 Class A, EN 61000-3-3:2013, EN 61000-3-2:2014
Compatible operating systems	Android, Linux Boss (5.0), Linux Debian (7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6), Linux Fedora (22, 23, 24), Linux Mint (17, 17.1, 17.2, 17.3, 18), Linux Red Hat Enterprise (6.0, 7.0), Linux SUSE (13.2, 42.1), Linux Ubuntu (12.04, 14.04, 15.10, 16.04, 16.10), OS mac OS 10.12 Sierra, OS X 10.11 El Capitan, OS X 10.10 Yosemite, UNIX, Windows 10 all 32/64-bit editions (excluding RT OS for Tablets), Windows 7 all 32/64-bit editions, Windows 8/8.1 all 32/64-bit editions (excluding RT OS for Tablets), Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc.), Windows XP SP3 32-bit editions (XP Home, XP Pro, etc.)
Minimum system requirements	**Windows**: 2 GB available hard disk space, OS hardware requirements see http://www.microsoft.com; **Mac**: 1.3 GB available hard drive space; Internet; OS hardware requirements see http://www.Apple.com for more info
Country of origin	Made in Netherlands
What's in the box	HP PageWide Managed Colour Flow MFP E77650zs; HP Setup Ink Cartridges (yield after setup 8,000 pages CMY and 10,000 pages Black); Installation guide; Support flyer; Documentation on CD-ROM; Power cord
Warranty	90 days parts only warranty. Warranty and support options vary by product, country and local legal requirements. Go to http://www.hp.com/support to learn about HP award winning service and support options in your region.

Footnotes

[1] High-yield cartridges are not included in printer purchase; purchase separately. Comparison is based on ISO 24711 cartridge yields for HP 982X series High-Yield Original PageWide Cartridges compared with HP 982A series Original PageWide Cartridges. Learn more at http://www.hp.com/go/learnaboutsupplies.

[2] Comparison based on printing in Professional Mode..

[3] Energy claim based on TEC data reported on energystar.gov as of March 2017. Data normalised to determine energy efficiency of in-class A3 color laser printers (€1,410-€2,819) and MFPs (€2,820-€7,049) as of February 2017, excluding other HP PageWide products. Subject to device settings. Actual results may vary.

[4] Fewer service parts claim based on BLI analysis of leading in-class A3 MFPs as of August 2016; 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 http://www.hp.com/go/pagewideclaims.

[5] Comparison of HP PageWide A3 devices with the majority of in-class colour ink/laser MFPs (€2,820-€7,049), and colour ink/laser single function printers (€1,410-€2,819) as of April 2017; market share as reported by IDC as of Q4 2016, excluding other HP PageWide products. HP PageWide speeds based on General Office mode and exclude first page. Learn more at http://www.HP.com/go/printerspeeds.

[6] Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see http://www.hpconnected.com.

[7] Based on HP review of 2016 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 http://www.hp.com/go/PrintersThatProtect. For more information: http://www.hp.com/go/printersecurityclaims.

[8] Some features require additional purchase. A FutureSmart service pack update may be required to activate security features. Learn more at http://www.hp.com/go/printsecurity

Technical specifications disclaimers

[1] ISO speeds measured using ISO/IEC 24734. Excludes first page or first set of ISO test pages. For details see http://www.hp.com/go/printerclaims.

[2] Exact speed varies depending on the system configuration, software application, driver and document complexity.

[3] Based on standard ITU-T test image at standard resolution and MMR encoding, the HP fax device can transmit at 3 sec/page for V.34 and 6 sec/page for V.17.

[4] Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Energy Star value typically based on measurement of 115V device.