

Product guide

HP ink is ready for the enterprise



HP Officejet Enterprise Color MFP X585 series



February 2014

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Enterprise ready —at twice the speed and half the cost of lasers^{1,2}

Make no compromise. Powered by HP PageWide Technology, the HP Officejet Enterprise Color MFP X585 series offers the features and reliability you expect—at up to twice the speed and half the cost per page of color lasers.^{1,2} Tackle color printing and high-volume jobs, page after page. With the same security solutions, seamless integration and simple management as HP LaserJet MFPs, this device is ready for the enterprise.

Who can benefit?

Workgroups of up to 15 people can improve office productivity and user experience with print speeds up to 72 pages per minute (ppm) in general office mode. Pigment inks provide permanence, water fastness,³ and impressive print quality—while leading energy efficiency helps to reduce your environmental footprint. Enjoy quick and convenient mobile printing by enabling touch-to-print and wireless direct.^{4,5} Choose the Flow X585z model for advanced workflow features like super-fast scanning and an integrated keyboard for smooth data entry.⁶



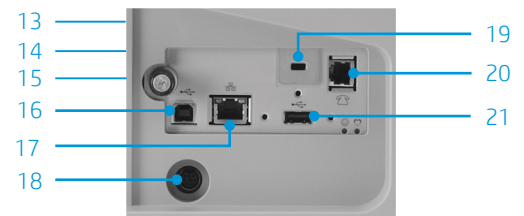
Product walk around

HP Officejet Enterprise Color Flow MFP X585z shown

- 1 Intuitive 8-inch (20.3 cm) HP Easy Select pivoting touchscreen color control panel
- 2 Hardware integration pocket for solution integration
- 3 Easy access USB port to save and print files directly
- 4 Pull-out keyboard for easy, accurate data entry (X585z model only)
- 5 Front door allows convenient access to easy to replace ink cartridges
- 6 50-sheet multipurpose tray with long paper extension
- 7 Integrated automatic two-sided printing
- 8 Power On/Off button
- 9 100-sheet automatic document feeder with single-pass, two-sided scanning and HP EveryPage with ultrasonic double-feed detection (X585z model only)
- 10 Plate glass color scanner handles up to legal size (216 by 356 mm)
- 11 300-sheet output bin with long paper extension
- 12 500-sheet input tray 2
- 13 796 MHz processor, 1.8 GB
- 14 320 GB HP High-Performance Secure Hard Disk
- 15 Two internal host USB 2.0 type ports for third-party solutions
- 16 Hi-Speed USB 2.0 printing port
- 17 HP Jetdirect Gigabit Ethernet print server
- 18 Foreign interface harness (for connecting external devices)
- 19 Access port for optional Kensington-style lock
- 20 Fax port, RJ-11
- 21 Hi-Speed USB 2.0 port for connecting third-party devices



Front view



Back I/O panel close-up

Series at a glance



Model	MFP X585dn	MFP X585f	Flow MFP X585z
Part number	B5L04A	B5L05A	B5L06A
ADF input capacity	Up to 50 sheets	Up to 50 sheets	Up to 100 sheets
HP EveryPage ultrasonic double-feed detection	Not available	Not available	✓
Two-sided scanning	Reversing ADF	Reversing ADF	Single-pass duplexing ADF
OCR (optical character recognition)	Optional with HP DSS	Optional with HP DSS	✓
Large pull-out keyboard	Not available	Not available	✓
Fax	Optional	✓	✓
500-sheet tray 3	Optional	Optional	Optional
Cabinet and stand	Optional	Optional	Optional

Top features at a glance



Professional color for less

Keep productivity high with an MFP that's designed for the demands of business.

Faster than lasers—for less^{1,2}

- Spend up to 50% less per page compared with color lasers.²
- Keep productivity high with print speeds up to twice as fast as color lasers.¹
- Count on Original HP pigment inks for durable prints that resist water and smearing and last for decades.³
- Enable full-page-width printing at high speeds with HP PageWide Technology.



Time-saving

Make workflow faster

- Capture every page and detect potential misfeeds—before they slow you down.⁶
- Finish faster—scan in a single pass and send documents to network folders, email, and more.⁶
- Enter data more quickly and accurately using the pull-out keyboard.⁶
- Manage jobs directly at the MFP, using the 8-inch (20.3 cm) color touchscreen with image preview.



Remote printer management

Fully loaded for the enterprise

- Centrally monitor and control your MFPs with HP Web Jetadmin.⁷
- Be confident that sensitive business data is protected with advanced security solutions.
- Easily update this MFP as solutions advance—with HP FutureSmart firmware.
- Take advantage of simple development and deployment solutions that expand this MFP.
- Easily integrate new solutions at will—no worries—through the hardware integration pocket.
- Enable secure, direct access to the printer through wireless direct printing and touch-to-print technology—no need to access the company network.^{4,5}



Mobile printing

Rely on performance—print after print

- Get exceptional value from Original HP high-capacity black and color ink cartridges.⁸
- Choose a robust MFP designed for demanding, high-volume workload—reliably tackle large print jobs with a paper capacity of up to 1,050 sheets.⁹
- Rely on longevity—this MFP is designed for less maintenance, with minimal consumable parts.



Auto-On/Auto-Off Technology

Conserve resources without sacrificing performance

- Because this MFP has no fuser, it consumes much less energy than many color lasers in its class.¹⁰
- Meets ISO specifications for use in cleanrooms—making it perfect for offices.¹¹
- Save energy by presetting your MFP to turn on when you need it and off when you don't.
- Conserve resources—use up to 90% less supplies and packaging by weight compared with lasers.¹²

Faster than lasers—for less

Accelerate business printing while keeping your bottom line in mind. This powerful MFP delivers color documents at up to twice the speed¹ and half the cost per page of color lasers.² Proven HP PageWide Technology makes it possible.

Quality prints at up to half the cost per page

When HP PageWide Technology is teamed up with HP pigment ink cartridges specially designed for use in this MFP, the result is a winning combination of professional-quality color prints at up to half the cost per page versus color lasers.²



HP PageWide Technology

HP EasyColor optimizes results

Make a statement with high-impact, professional-quality color documents. Use HP EasyColor to manage settings for maximum impact. HP EasyColor technology automatically improves mixed-content documents that are printed from Microsoft® Office programs. This technology scans documents and automatically adjusts photographic images in .JPEG or .PNG format. HP EasyColor technology enhances the entire image at one time, rather than dividing it into several pieces, which results in improved color consistency, sharper details, and faster printing. You can expect glossy text, bold graphics, and vivid images. And, you can count on consistent color—page after page, document after document, and ink cartridge after ink cartridge. Use the HP Universal Print Driver tools to manage color use and protect your color investment.¹³

Accelerate business printing

This MFP delivers vivid color at up to twice the speed of color lasers to help you save time and resources.¹ In professional mode, you'll get color and black-and-white speeds up to 44 ppm, letter (42 ppm, A4).¹⁴ Print even faster—and save even more per page—by setting your printer to general office mode to produce full color prints at up to a blistering 72 ppm, letter (70 ppm, A4). Without the need to warm up any components, the first page gets printed in as fast as 8 seconds.¹⁵

Durable prints that last

Rely on pigment inks for durable documents that are water-, fade- and smear-resistant—and stand up to highlighters.³

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

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

The MFP supports a wide range of paper types, including HP Glossy and Matte Brochure media as well as advanced photo media and other inkjet specialty papers—including office papers as light as 60 g/m² (16 lb bond).



Water-resistant prints

Archive with confidence

This printer's ink has achieved ISO 11798 certification.¹⁶ This rigorous standard ensures that printouts have a certified durability for wear and tear, often referred to as "archive ability." You can rest assured that the quality and readability of prints will remain high for years to come.

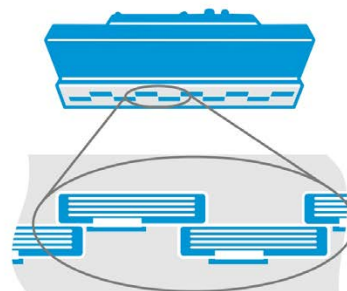
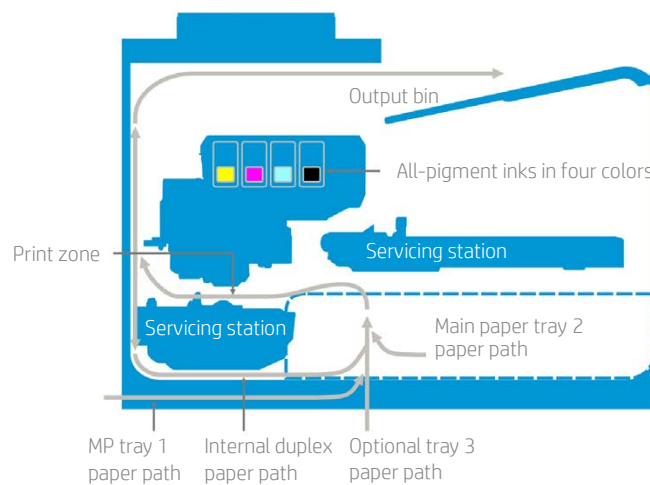
Next-generation HP PageWide Technology—how does it work?

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

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

The MFP also performs continuous self-diagnosis, using special sensors to analyze the minuscule ink drops as they leave the printhead. It then calibrates the system accordingly. This calibration process is done in real time, resulting in optimized print quality at any given moment. All of these complex processes occur at a breathtaking pace.

For a more detailed description of PageWide Technology, see the technical white paper at hp.com/united-states/campaigns/officejet-pro-x/?jumpid=ex_r11400_go_officejetprox.



PageWide printhead

Printhead contains an array of ten 4-color dies.

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

Make workflow faster

This feature-packed MFP helps accelerate your work team's performance and provides the tools you need to capture the right content quickly, easily, and accurately. Give your office powerful productivity with all the features of a laser—at half the cost per page.² Choose the Flow MFP X585z model for super-fast scanning and an integrated keyboard for smooth data entry.⁶ Image preview helps set up the results you expect, ahead of time.



Two-sided scanning

HP Officejet Enterprise Color Flow MFP X585z

The HP Officejet Enterprise Color Flow MFP X585z is a workflow-optimized powerhouse. The features described in this section apply only to this product.⁶

Fast and accurate scanning for high-volume environments

Reliably capture information—HP EveryPage uses ultrasonic technology to help detect double-feeds and avoid missed pages in scanned files. The extended life ADF boasts a robust recommended monthly scan volume of 26,750 to 44,500 pages, supporting even the most demanding environments. And you can manage big jobs easily with a 100-sheet automatic document feeder that handles mixed paper sizes and weights.

With single-pass two-sided scanning, pages scan more than twice as fast as the X585dn and X585f models. Automatic blank page suppression technology helps reduce file size and avoid wasted paper.

Accurate data entry and pristine scans⁶

The Flow MFP's large pull-out keyboard allows you to easily add data to digital files and context to your email. Typing addresses, file names, and index data with two hands is not only a lot faster for the user, but also improves the accuracy of the data.

Plus, the Flow MFP provides advanced automatic-imaging features that go beyond the series' standard imaging features of auto-deskew, color detection, and edge erase. These more advanced features include auto-orientation, which adjusts each page of an individual job to be correct-side up, eliminating the need to ensure that each single-sided page in a job is placed face-up and top-up in the ADF. Auto-page-crop automatically sets the scan to the paper edges, and auto-tone sets contrast, brightness, and background removal for each page.



Expanded processing and routing

The HP Officejet Enterprise Color Flow MFP X585z comes standard with embedded send to Microsoft SharePoint, allowing users to share files faster. No extra software is required.

Use built-in OCR Technology by I.R.I.S.[®] to easily transfer scans into editable text and a wide variety of additional file types, including TEXT (OCR), Unicode TEXT (OCR), RTF (OCR), Searchable PDF (OCR), Searchable PDF/A (OCR), HTML (OCR), and CSV (OCR).¹⁷



Scan to editable file

HP Officejet Enterprise Color MFP X585 series (all models)

The features described in this section apply to the entire MFP series, which includes the HP Officejet Enterprise Color MFP X585dn, HP Officejet Enterprise Color MFP X585f, and HP Officejet Enterprise Color Flow MFP X585z.

Use HP Quick Sets to launch one-touch automated workflows

The MFP's digital sending capability lets users route documents to a variety of destinations like email recipients, network folders, or LAN fax addresses.⁶ Some users, however, can become quickly overwhelmed with the number of possibilities. They might choose the wrong network folder, forget an email address, or pick the wrong file format for the scan, and the workflow breaks down before it has even begun.

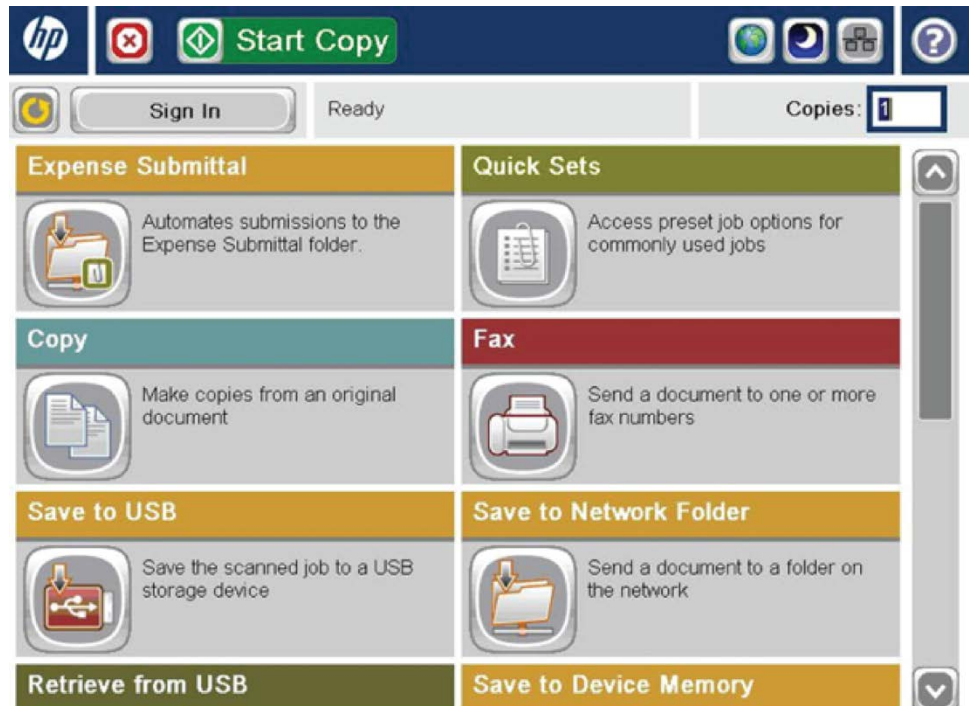
HP Quick Sets let you launch document workflows and get it right every time—at the touch of a button. HP Quick Sets help by automating all of the steps of a complicated workflow, all on a large, full-color touchscreen that is a joy to use. Users can find what they need right away, without standing at the device control panel searching for the appropriate settings.

In addition to scan destinations, you can preset other scan settings. These can include output file types such as PDF, JPEG, TIFF, MTIFF, XPS, and PDF/A formats. You can also specify security settings, such as encrypted PDFs, to be delivered through encrypted and signed emails. Quick Set buttons can be easily created, labeled, and placed on the control panel home screen, so that you can quickly find the functions you need (some examples are shown in the graphic below).

Quick Sets help IT by enabling them to promote or block access to certain device features. Calls to the helpdesk can be reduced when users have everything they need on the home screen and are restricted from accessing settings they shouldn't tamper with.



Scan to email



Robust automatic document feeder

The MFP's automatic document feeder (ADF) saves time by automatically scanning and copying documents—there's no need for you to handle every page. Support for two-sided scanning makes the ADF even more versatile. The 8.5 by 14 in (216 by 356 mm) flatbed scanner lets you easily copy and scan non-standard and bound material.

For each document scanned, the ADF can automatically skew sheets that are not inserted quite straight and determine the best output format and exposure for the data content. Automatic color detection, which is user-selectable, classifies an input original as either color or non-color. And with edge erase, you can eliminate paper punch holes, staples, and black overscan lines by specifying a distance from each of the four paper edges to be pushed to white.

Preview and edit documents right on the control panel

The control panel on this MFP features image preview, which lets you minimize steps and reduce errors. Right from the device's 8-inch (20.3 cm), full-color touchscreen control panel, you can view and edit your scan job before you send it to a network folder, fax,⁶ email, or USB device. With image preview, not only can you save files on your network from the device, you can easily get your scans to look just the way you want them. Instantly preview and modify scans before sending them into the workflow, eliminating the need to walk back and forth from a computer.

Scan multiple pages using the automatic document feeder (ADF) and view them as thumbnail images, or zoom and pan for a detailed inspection. Before finalizing a document you can reorder, rotate, delete, add, or zoom in on pages. You can apply changes to a single page, or multiple pages at once.



Blank-page suppression reduces paper use and file size

Verify that all content is captured by scanning both sides of all documents. Blank-page suppression technology automatically detects and removes blank pages from scanned documents.

Scanning comparison: MFP X585dn/f vs. Flow MFP X585z

Scanning feature	HP Officejet Enterprise Color MFP X585dn/f	HP Officejet Enterprise Color Flow MFP X585z
ADF type	Reversing ADF	Dual head, single-pass duplexing ADF
Single-sided scan speed (letter/A4) (pages per minute at 300 dpi)	Color and black: Up to 44/41 ipm	Color: Up to 63/59 ipm Black-only: Up to 65/62 ipm
Two-sided scan speed (letter/A4) (images per minute at 300 dpi)	Color and black: Up to 18/18 ipm	Color: Up to 66/62 ipm Black-only: Up to 89/86 ipm
ADF input capacity	50-sheet	100-sheet
Keyboard	No	Yes
Misfeed detection	No	HP EveryPage ultrasonic double-feed detection
Send to destinations	<ul style="list-style-type: none"> Email Network folder LAN/Internet fax USB FTP 	All of the X585dn/f model destinations, plus: <ul style="list-style-type: none"> Microsoft SharePoint
Advanced processing	None	OCR
Advanced imaging	<ul style="list-style-type: none"> Auto-blank page removal Image preview Auto-color detection Edge erase Deskew Auto-content-crop 	All of the X585dn/f model imaging features, plus: <ul style="list-style-type: none"> Auto-orientation Auto-page-crop Auto-tone

Complete task management—from the touchscreen

Process jobs at the MFP with the HP Easy Select color touchscreen control panel for a trouble-free user experience. The control panel includes an 8-inch (20.3 cm) SVGA touchscreen graphical display that is adjustable for different viewing angles. Reduce training costs and help-desk calls while empowering everyday users with the same user interface found on HP LaserJet MFPs and networked scanners.



Users can manage their jobs confidently from the control panel's intuitive interface—in many cases it's one they're already familiar with.

The control panel offers:

- Adjustable tilt angle of the touchscreen to provide convenient accessibility to all users.
- Image preview, which lets you add, delete, reorder, and zoom in on pages for digital send jobs at the control panel. (For more details on Image preview, see page 10.)
- Simple-to-use menus that allow you to set system defaults, customize settings for a particular job, and configure and launch HP Quick Sets. (For more details about HP Quick Sets, see page 9.)
- Illuminated Home button on the side of the control panel that quickly returns the touchscreen to the Home menu.
- Helpful feedback while interacting with the touchscreen graphical display. The MFP has a built-in Help system that explains how to use each screen. To open the Help system, touch the Help button in the upper-right corner of the screen. For some screens, the Help button opens to a global menu where you can search for specific topics. For screens that contain settings for individual jobs, the Help button opens to a topic that explains the options for that screen.
- Clear instructions and illustrations, including animations for tasks such as jam recovery.
- Easy-to-read status messages in one location.
- Localized virtual keyboards for inputting text, such as email addresses, filenames, and metadata.
- Large pull-out keyboard on the HP Officejet Enterprise Color Flow MFP X585z model for easier data entry.

The MFP's easy-access USB port lets users conveniently print from—and save scans to—flash drives. Supported file types include PDF, PS, and Print Ready files (.prn, .pcl, .cht).



Easy-access USB

Incorporate paper documents into digital workflows

It's quick and easy to capture paper documents and send them directly to email, fax,⁶ or network folder. Built-in LDAP addressing simplifies email distribution, while optional HP Digital Sending Software enables advanced document capture and routing.¹⁸

Embedded digital sending

Set-up wizards help you quickly and easily configure your HP MFP's digital sending features.

- The Send-to-Email Default Setup Wizard helps you link your MFP to your email server, then set up default email and scan settings. The Send-to-Email Quick Set Wizard makes it easy to manage often-used Send-to-Email favorites, as well as set up default scan settings. Scanning to email can be a great time-saver when communicating with customers, vendors, or coworkers.
- The Save-to-Folder Quick Set Wizard helps you create destination folders on your computer using Quick Sets. It walks you through configuring the default scan settings that will be applied when scanning to each folder. Now you can start digitally filing your documents for easy storage and retrieval.

Optional HP Digital Sending Software

The MFP supports HP Digital Sending Software¹⁸ (DSS) as well as a variety of enterprise document management systems. HP Digital Sending Software is used to enhance digital sending across HP LaserJet MFPs and HP Scanjet devices, to provide a common administrative utility and end-user interface across multiple devices and device types. This optional software runs as a service on a network server and allows multiple devices to send jobs through the server. It is not necessary to install any software or drivers on individual users' computers.

While the HP Officejet Enterprise Color MFP X585 series includes robust digital sending features out of the box, HP DSS enables the following additional sending features:

- Optical character recognition (OCR) allows you to convert scanned images to common file types with editable and searchable text. File types include searchable PDF, PDF/A, High-compression PDF, HTML, XML, RTF (Microsoft Word compatible), XPS, and TXT. OCR capabilities also enhance

the indexing and retrieval of documents. (These OCR capabilities are built-in, for occasional use, to the HP Officejet Enterprise Color Flow MFP X585z.¹⁷)

- Remote copy (sending to a printing device)
- Custom keys allow users to effortlessly send documents to workflow destinations
- Configuration utility for managing digital sending and workflow capabilities
- Central email routing
- Central address book management where users gain access to their Microsoft Exchange contacts, as well as their private address books
- LDAP replication allows DSS to offload the LDAP directory activity by replicating relevant addressing information into the DSS address book
- Support for Filenet and Novell

For more information about HP DSS, please visit hp.com/go/dss.

Advanced faxing⁶

Quickly and easily send and receive faxes with the HP LaserJet MFP Analog Fax 500 from the control panel icon.

Advanced fax features include:

- Efficiently process jobs at up to 33.6 kbps¹⁹ with the V.34 fax modem and help save time and money with standard JBIG compression that shortens call time.
- Configure remotely via HP Web Jetadmin⁷ or choose effortless setup with the Embedded Web Server fax configuration wizard.
- Quickly search, locate, and edit entries using speed dial.
- Use manual memory lock to save fax jobs at the MFP until a PIN is entered to release the stored documents. The scheduled memory lock lets you specify the days and times you want faxes to print or be held on the device.
- Take advantage of fax forwarding to receive business-critical faxes wherever you are.
- Easily retrieve data with fax polling (receive only). Request information stored on another machine to automatically receive a fax with the desired information. Fax polling is just what you need to efficiently gather frequently used documents, such as forms or reports.
- Use the fax call report to view convenient thumbnails of faxes and to archive important information, including the time sent, content, and destination.
- Get instant feedback on your fax job with the one-line status on the MFP's control panel.
- Send a fax from your computer without going to the device control panel with the Send Fax Driver.²⁰
- Use optional HP Digital Sending Software to easily alternate between LAN and analog fax with a flexible configuration switch.¹⁸ The switch delivers seamless integration in LAN or analog environments, without having to reinstall or reconfigure the fax accessory.

Effortless copying

The MFP may be used as a standalone, walk-up copier, and you do not need to be connected to the network or a computer to make copies. In copy mode, the MFP functions as a standard photocopier—place your originals on the scanner glass or use the automatic document feeder and adjust all copy settings at the control panel.

Fully loaded for the enterprise

Count on an MFP that's designed for the demands of business. Make it easy on IT, with advanced security and management solutions—and easy upgrades.

Safeguard your device, data, and documents with robust security features

The HP Officejet Enterprise Color MFP X585 series has a multitude of options when it comes to helping you secure your environment. You can count on support for a number of solutions, along with built-in security features such as an HP High-Performance Secure Hard Disk and PIN printing options.

Protect your MFP

As capabilities expand and devices become more integrated into your workflows, device security becomes increasingly important. The MFP features a number of options to help secure against undesired access:

- **Authentication and authorization**—Help boost security at the device and help make sure the right jobs end up in the right hands. Authentication can help your organization manage user access, prevent unwanted scanning and digital sending, help secure access to management utilities, and avoid unwanted device configurations. Control access to the MFP, device settings, and functions, with options like:
 - **Multiple embedded authentication methods:** Print with a positive ID. With authentication options available from the device, you can configure Windows®/Kerberos authentication, LDAP authentication, and user PIN authentication that integrates with your existing infrastructure.
 - **Role-based device authentication and authorization with HP FutureSmart:** With HP FutureSmart, you have more control than ever before over device security and permission settings. IT administrators can decide who can interact with certain device capabilities—helping to make workflows more secure, control access, and uphold site security policies.
 - **HP and third-party authentication solutions:** With optional solutions like HP Access Control or HP Smartcard Solution for U.S. Government, you can enable advanced authentication using proximity cards or smartcards. The hardware integration pocket on the control panel enables integration of select card readers.
 - **Encrypted document authentication with HP FutureSmart Encrypted PDF and HP UPD Secure Encrypted Print:**²¹ With these solutions, the user must enter a password (symmetric key) to encrypt when scanning or printing a document, and the same password to decrypt and print the document. This authentication protects the document across the entire workflow.
- **Physical device protection**—Both the device and the embedded HP High-Performance Secure Hard Disk can be physically safeguarded from theft and tampering using a lock that requires a physical key for removal (this accessory must be purchased separately). In addition, host USB ports, network ports, and other physical ports can be disabled to prevent unauthorized use.
- **Common Criteria Certification (CCC)**—CCC is a security certification recognized in 26 countries worldwide. HP certifies the security functionality of its Enterprise MFPs.²²



Built-in security features

Protect your data

Your MFP harbors sensitive information—make sure it's not at risk. HP offers security features at every stage in the workflow. An HP High-Performance Secure Hard Disk helps safeguard sensitive data sent to your MFP to keep you worry free.

Protect data at rest with the following features:

- **Storage encryption**—Defend your data. The HP High-Performance Secure Hard Disk on the HP Officejet Enterprise Color MFP X585 series provides full hardware encryption. (Select U.S. Government SKUs include an FIPS 140 validated disk.)²³
- **Secure Erase**—The MFP provides built-in capabilities to help securely overwrite data stored on it, allowing sensitive data to be safely removed. HP offers multiple mechanisms to erase stored data, including functionality that conforms to U.S. National Institute of Science and Technology (NIST) Special Publication 800-88.
- **Password protection**—Stored passwords are encrypted to help provide protection of this critical information.

Protect data in transit with these features:

- **Secure Encrypted Print with HP UPD 5.3.1 or later**—For added security, choose end-to-end Secure Encrypted Print. HP UPD provides true symmetric AES256 print job encryption and decryption from the client to the page based on a user-defined password using FIPS 140 validated cryptographic libraries from Microsoft.
- **Network protection**—Network-transmitted data can be protected with IPsec, which allows you to encrypt data that travels between the device and digital send destinations (provided you have configured each network resource to use IPsec). Print jobs can also be encrypted using Internet Printing Protocol (IPP) over SSL/TLS.
- **Document security**—Scanned PDFs and emails can be encrypted using built-in FIPS 140 validated cryptographic libraries from Microsoft.
- **Management safeguards**—Device management data that travels over the network between the device and the HP Embedded Web Server, HP Web Jetadmin, and other management tools can also be protected using SNMPv3 and SSL/TLS.

Safeguard your physical documents

HP offers several optional solutions to help keep documents from falling into the wrong hands and help prevent fraud, such as:

- **Pull printing**—Have documents held and released only to the person who printed them. The HP Access Control Pull Printing solution helps protect sensitive data by requiring authentication at the device, and gives users the flexibility of pulling the documents from any device that is enabled with the solution.
- **Embed anti-fraud features**—This is a valuable tool in sensitive documents like prescriptions, birth certificates, or transcripts. Anti-fraud features are embedded before they are routed to the MFP and printed on plain paper by using the optional HP and TROY Secure Document Printing solution.

HP security best practices

Since 2005, HP has published security best practice checklists for networked environments common to enterprises and small to medium businesses. HP recommends that customers incorporate recommended security configurations into their environments.

For more information, go to hp.com/large/ipg/gateway/secure-4-steps.html. For more information on HP security solutions, checklists, and assessment tools, please visit hp.com/go/secureprinting.



Safeguard your fleet of HP devices with the solution Buyers Laboratory, LLC calls trailblazing—HP Imaging and Printing Security Center²⁴

Take the worry out of printing

Add security without adding employees. Use optional HP Imaging and Printing Security Center (HP IPSC), the award-winning, policy-based solution that helps you increase security, strengthen compliance, and reduce risk across your imaging and printing fleet.

- Streamline the process to help securely deploy and monitor devices by applying a single security policy across the fleet.

- Easily achieve baseline security with the HP Best Practices Base Policy—no security expertise required.
- Help secure new HP devices as soon as they are added to your network with HP Instant-on Security.²⁵ The software automatically configures settings to comply with your corporate security policy.
- Actively maintain and verify compliance with your defined security policies by using HP IPSC automated monitoring and risk-based reporting.

To learn more about HP Imaging and Printing Security Center or to obtain a free 60-day trial, please visit hp.com/go/ipsc.

Device-based security management

For environments where few devices are deployed, IT may choose to manage each device individually via the HP Embedded Web Server management interface, which employs HTTPS for encryption and has access controls. In addition, HP provides security wizards to assist in proper security setup.



HP Web Jetadmin

Take the guesswork out of fleet management

The HP Officejet Enterprise Color MFP X585 series is supported by HP Web Jetadmin.⁷ This single solution allows you to efficiently manage a wide variety of networked and PC-connected devices, including printers, multifunction products, and scanners. A universal plug-in lets you add new devices and apply corporate policies in one step, which helps save time and simplify device management.⁷ Remotely install, configure, troubleshoot, safeguard, and manage your devices—ultimately increasing business productivity by helping you save time, control costs, protect your assets, and provide a better return on your investment. HP Web Jetadmin enables you to:

- Gain a clear picture of how many and what kinds of devices you have.
- Get visibility into your supplies usage, so you can make smarter purchasing decisions, reduce spending, and even track and allocate printing costs to individual departments or users.
- Simplify, and in many cases, automate routine tasks. For example, you can apply fleet-wide policies to automatically configure new devices with the right printing and security settings when they're added to your network.
- Give your help desk staff the tools they need—such as automatic alerts—to resolve problems quickly, and often proactively, before a call is even received.
- Verify that your devices are up-to-date with the latest firmware and are properly configured (especially important for organizations that need to meet regulatory requirements).
- Use robust tracking and reporting tools to help you make better decisions about how your devices are deployed across your organization, so you can make the most of your IT investments.
- Take advantage of additional options, like the HP Database Connectivity Module which works together with Web Jetadmin to help you establish and achieve environmental goals.
- Get the ultimate in investment protection with HP Web Jetadmin Premium Support. This expanded service option gives your staff access to HP's dedicated software support engineers, who provide advice, usage recommendations, problem diagnosis, and more.

HP Web Jetadmin can benefit IT-managed print environments of all sizes, from large enterprises managing thousands of devices to small businesses with just a handful. For more information about how you can efficiently manage your entire imaging and printing fleet with HP Web Jetadmin—or to download this free software tool—visit hp.com/go/wja.

Give color access to those who need it

Use HP Web Jetadmin⁷ and the HP Universal Print Driver¹³ to assign color access by user, time of day, or application, or disallow color output completely until it's needed for special projects. People who truly need to leverage the power of color—such as your sales team and marketing department—can, while others automatically default to black-and-white output.

Simple one-to-one device management

The HP Officejet Enterprise Color MFP X585 series can also be managed using the HP Embedded Web Server (EWS). Use a web browser to monitor status, configure network parameters, or access device features.

Simplicity all around

Make it easy for all to print with one common driver. The HP Universal Print Driver (UPD) enables both mobile Microsoft PC users and traditional desktop users to self-sufficiently access the full features of nearly every HP device in your managed printing environment.¹³

Eliminate the clutter on your computer by replacing multiple print drivers with one versatile solution. Empower IT by dramatically reducing the number of drivers they have to manage—and by giving them the tools they need to improve efficiency. With the HP UPD, your IT team can easily adjust device settings to help reduce printing costs, improve security, and help meet environmental goals. For example, it's simple to push two-sided printing or quicker sleep times across the fleet. Plus, the valuable tools in the HP UPD Printer Administrator's Resource Kit help you save time and money by streamlining IT tasks, implementing printing policies, and monitoring usage across the enterprise. You can also use the HP UPD in tandem with HP Web Jetadmin to create fleet-wide managed printer lists, reports, and more.⁷

You can download this valuable fleet driver solution and the tools in the Printer Administrator's Resource Kit for free. For more information about how the HP Universal Print Driver can help you protect your imaging and printing investment, simplify management, and boost productivity, visit hp.com/go/upd.

Keep up with the times

Work with the future in mind. HP FutureSmart firmware lets you upgrade your MFPs on your schedule, whenever solutions advance. This provides investment protection because you can update to new features, such as workflow and security enhancements, without having to purchase new hardware. HP FutureSmart also helps reduce the time and cost to train new users. A consistent user interface and menu design across all HP FutureSmart devices—including the HP Officejet Enterprise Color MFP X585 series—makes the user experience intuitive and familiar. To learn more about HP's FutureSmart firmware, visit hp.com/go/futuresmart.

Do more with your investment

Be ready for the new—now. This MFP is designed to be compatible with emerging solutions, so you can upgrade and increase capabilities as needed. HP's cost-effective solution for hardware upgrades—the hardware integration pocket—allows you to integrate security solutions, such as card and badge readers. And HP's Open Extensibility Platform (OXF) creates a unified environment for software solutions that run on your HP Enterprise MFPs—providing sound investment protection, consistency for end users, and easier management. These HP innovations can help your MFP remain state-of-the-art long into the future.

Mobile printing—more efficient

It's a mobile world. Smart phones, tablets, and notebooks offer the flexibility to be productive at work, home, and on the go. Users want simple and reliable printing from any mobile platform or operating system, while IT managers need to control access to their network and devices. We're proud to lead the way in mobile printing, offering mobile solutions for more users, use cases, and environments than any of our competitors.



Wireless direct

Enterprise mobile printing

The HP Officejet Enterprise Color MFP X585 series comes ready to deploy optional HP wireless direct⁴ and HP touch-to-print.⁵ You can add these mobile printing capabilities across your existing HP devices with either the HP Jetdirect 2800w NFC and Wireless Direct Accessory, which installs in the hardware integration pocket, or with the HP NFC/Wireless 1200w Mobile Print Accessory, via USB.²⁶

Both wireless direct and touch-to-print use a secure peer-to-peer connection, allowing users to print without accessing your corporate network. Print files are encrypted, and with a configurable passphrase, you don't have to worry about who is connecting to your office printers. Security and user access settings can be easily set up with HP Web Jetadmin⁷ or the Embedded Web Server.

To use wireless direct printing, simply connect your mobile device to your printer in the same way you would discover and connect to any public wireless network. With touch-to-print, you can walk up and print from your NFC-enabled smartphone or tablet with just a touch. NFC, or near field communication, automatically discovers the printer for you, eliminating the guesswork and creating a one-to-one connection using wireless technology.

HP has been working closely with leading manufacturers of mobile devices to integrate printing into popular operating systems. In fact, HP currently offers the broadest support for embedded print functionality—across Apple® iOS (AirPrint™), Samsung Android, and Windows 8, which means in most cases you won't have to download an app. Simply access the print function from the document you want to print, select your printer, and hit Print. For mobile devices without built-in print support, printing is just as simple, but users will first need to download the HP ePrint app or HP ePrint software.²⁷

If you're looking to deploy mobile printing across an existing multi-vendor fleet and need advanced security and management options, we offer the optional HP ePrint Enterprise solution. Learn more about HP's enterprise mobile printing solutions at hp.com/go/businessmobileprinting.

Enable printing anytime, from virtually anywhere

Even when employees are traveling, a printer can always be close at hand—with HP ePrint.²⁸ Empower them to print virtually anywhere from a smartphone, tablet, or Internet-connected PC. And with Apple AirPrint™, enable employees to print from an iPad®, iPhone®, or iPod touch®.²⁹



Touch-to-print



HP ePrint

Enterprise sharing capabilities

The printer offers embedded wired networking capabilities that allow you to connect directly to a Gigabit Ethernet 10/100/1000T network. You also have the option of adding secure wireless networking. For more information, please see “Ordering information” on page 31.

Rely on performance—print after print

Bolster your fleet with an MFP that goes the distance. Load large projects and let it handle the job while employees move on with business. Page after page, this MFP is built to last.



10,000-page cartridge

High volume, high value

Help save money and minimize interruptions. Original HP cartridges install in seconds and are easy to manage. Print up to 10,000 black-and-white pages per cartridge, using high-capacity Original HP ink cartridges designed for great value.⁸ Color cartridges offer a yield of up to 6,600 pages.⁸ For cartridge part numbers, see “Ordering information” on page 31.



Up to 1,050 sheets with optional tray 3

Loaded for productivity

Meet the demands of large print jobs—this MFP has an automatic document feeder designed to last, and a paper capacity up to 1,050 sheets with the optional second 500-sheet paper tray (which supports media up to legal size). In addition, an optional cabinet and stand allows you to store supplies and easily move the MFP to the spot that’s most convenient (can be added to all X585 models). For details on these options, see “Ordering information” on page 31.

Do more with your time and your budget. Automatic two-sided printing means no flipping pages by hand—plus it can reduce the cost of wasted paper and virtually double the MFP’s input capacity.

Expand your media options. This MFP is ideal for a wide variety of media types, including envelopes, labels, card stock, and several types of photo papers. Print on a broad range of media sizes, including A4, letter, legal, executive, postcards, and more.



Automatic two-sided printing

Built to last

Rely on an MFP that’s designed for longevity, through and through—with minimal parts that wear out over time. Help reduce maintenance and replacement costs over the life of the device. Recommended monthly page volumes are as high as 6,000 pages per month³⁰ and monthly duty cycles are up to 75,000 pages.³¹

Prior to its introduction, a new HP Officejet Enterprise device undergoes rigorous HP testing to provide consistent, high-quality output. Tests are performed with a large sample of devices through each step of the design process, to be certain that the device measures up to HP standards. The result is a solid, reliable product that produces consistent, excellent print quality over its entire life.

The MFP includes a standard one-year limited onsite warranty, including phone, chat, and email support. (Warranty may vary by country as required by law.) Additional warranty and service extension options are available. Go to hp.com/support to learn about HP award-winning service and support options in your region.



Maximize uptime

HP services—protect your technology investment and stay productive.

Enhance your standard warranty with HP Care Pack services. Our range of support services provides you peace of mind at predictable costs—so you can focus on what you care about. With HP Care Pack services you simply choose the level of support you need—no more, no less.³² For more details, see “Ordering information” on page 31. You can also select the HP Care Pack to best meet your needs at hp.com/go/cpc.

Conserve resources without sacrificing performance



Auto-On/Auto-Off Technology

It has never been more important to save energy and resources, and HP technologies can help. HP's Design for the Environment initiative is driving improvements at every stage in the product lifecycle—helping reduce the amount of energy, paper, packaging, and materials used at HP and by our customers.

Reduce energy use

Because this MFP has no fuser, it consumes much less energy than many color lasers in its class.¹⁰ Power usage drops significantly while in Ready or Sleep mode, which can help save resources and money without affecting the high performance of this product.

Stay productive and conserve resources with HP Auto-On/Auto-Off technology, which turns your printer on when you need it and off when you don't.³³ You can even set custom times for your printer to turn on and off, so it's ready when you are.

This printer is ENERGY STAR qualified and Blue Angel compliant. Hewlett-Packard printing and imaging equipment marked with the ENERGY STAR logo is qualified to the U.S. Environmental Protection Agency's ENERGY STAR specifications for imaging equipment. Additional ENERGY STAR information is listed at hp.com/go/energystar. Blue Angel is a German eco-label based on criteria in product design, energy consumption, chemical emissions, noise, recyclable design and take-back programs.

Save paper and reduce waste

Conserve resources—use up to 90% less supplies and packaging by weight compared with lasers.¹² Original HP pigment inks require less packaging than toner cartridges. Supplies materials by volume required are a fraction versus competitive laser printers.

Use HP SureSupply to consolidate supplies orders, helping to save money while reducing the environmental impact of packing and transporting multiple single orders.

Reduce paper use by up to 50% by printing two pages on a single sheet, using automatic two-sided printing. In managed print environments, HP Web Jetadmin can help cut the cost of paper consumption by setting automatic two-sided printing as the default for individual devices or entire fleets (for two-sided printing capable devices).⁷

Help save paper and ink by printing only the web content you need, using the free HP Smart Print tool.³⁴

This MFP meets ISO specifications for use in cleanrooms—making it perfect for offices and other sensitive places such as production environments where airborne particulates need to be minimized.¹¹

Reduce your impact—recycle HP cartridges

HP helps you recycle your Original HP cartridges—it's easy and free with the HP Planet Partners program, available in more than 48 countries and territories around the world.³⁵ HP offers postage-paid recycling envelopes and labels for most Original HP cartridges. Many Original HP cartridges have been engineered to use recycled plastic and still meet HP's demanding standards for quality and reliability. No Original HP cartridges returned through HP Planet Partners are ever sent to a landfill. For more information, visit hp.com/recycle.



Automatic two-sided printing



HP Planet Partners

Media guide

The HP Officejet Enterprise Color MFP X585 series is designed to work across a broad range of plain papers used in general office printing. Simply load paper and print for fast, professional looking results for the vast majority of office documents. Or, choose from a wide variety of special media to create impressive marketing documents. This media guide was created to help you achieve optimum results for all of your printing needs.

To avoid problems that could require repair, only use paper within the specifications listed in the table below. This repair is not covered by HP warranty or service agreements.

Supported media for the HP Officejet Enterprise Color MFP X585 series

	Tray 1 (multipurpose tray)	Tray 2 (main cassette)	Tray 3 (optional)	Output bin
Capacity (for 20 lb/75 g paper)	50 sheets	500 sheets	500 sheets	300 sheets
Size limits	3 x 5 to 8.5 to 14 in (76 x 127 to 216 x 356 mm)	4 x 8.27 to 8.5 x 11.7 in (102 x 210 to 216 x 297 mm)	4 x 8.27 to 8.5 x 14 in (102 x 210 to 216 x 356 mm)	
Weight limits (Light to cardstock)	16 to 53 lb (60 to 200 g/m ²)	16 to 53 lb (60 to 200 g/m ²)	16 to 53 lb (60 to 200 g/m ²)	
Weight limits (Photo paper)	33 to 80 lb (125 to 300 g/m ²)	33 to 66 lb (125 to 250 g/m ²)	33 to 66 lb (125 to 250 g/m ²)	

Optimizing your printed output

The HP Officejet Enterprise Color MFP X585 series delivers high-speed, low-cost, high-quality results page after page. The product monitors temperature, humidity, ink coverage, and other parameters to optimize performance and printed output. Most manufactured plain papers 16 to 32 lbs (60 to 120 g/m²) produce high quality results without you having to specify the paper type. This makes printing simple for everyone in the office.

The X585 series also supports settings that can enhance print results if desired. Print quality can be impacted by ink coverage, paper weight/thickness, smoothness, moisture content, ColorLok versus non-ColorLok paper, and simplex versus duplex. For optimal print quality on plain paper, consider using ColorLok media for even more vivid colors, bolder blacks, faster drying and controlled manufacturing specifications. ColorLok media can be used just like any other plain media. No special settings are required—just load the tray and hit print from your computer.

For printed output that makes a stunning impression, consider using heavier or glossy paper. The X585 series supports a wide variety of paper sizes and types. Some papers, most notably LaserJet Glossy papers, have special coatings that don't allow ink to absorb into the paper and are not supported by the X585 series. HP recommends Inkjet Glossy papers such as HP Brochure Glossy 180g or HP Advanced Photo papers.

When using special papers, you can achieve optimal print quality by selecting the specific paper type in both the device control panel and in the software driver when printing. After loading paper into an input tray, a pop-up will appear on the control panel asking if you want to modify the paper size and/or paper type. Select the correct paper type from the list provided on the control panel, based primarily on paper weight. The control panel lists paper weight in grams per square meter (g/m²) or simply "g." Paper packages often list paper weight in pounds (lbs). Below is a list of common paper weights in grams and lbs to help guide you in choosing the correct paper type setting from the control panel pop-up.

When printing, you will also need to select the correct paper type from the driver, to match the setting you made on the control panel. When the print driver pops up, click on the "Properties" button, then select the "Printing Shortcuts" tab and choose the correct paper type in the pull-down menu.

Common paper weights in grams (g) and pounds (lbs) by X585 control panel category

	Light	Plain	Inter-mediate	Mid-Weight	Heavy or HP Inkjet Matte 120g	Extra Heavy	HP Inkjet Matte or Glossy 180g	Cardstock	Advanced Photo	Advanced Photo
Grams (g)	60 g	75 g	90 g	105 g	120 g	150 g	180 g	200 g	250 g	300 g
Pounds (lbs)	16 lbs	20 lbs	24 lbs	28 lbs	32 lbs	40 lbs	48 lbs	53 lbs	66 lbs	80 lbs

In summary: Most office paper types from 60 to 120 g/m² (16 to 32 lbs) can be printed as "Plain" without specifying the paper type. If print quality or jam performance does not meet expectations, select the correct paper type setting (see "Supported paper types" table on page 24 for a detailed list). Follow these steps: **1)** Load paper into one of the trays, **2)** Select the paper size and paper type for that tray on the control panel, **3)** When printing, choose the correct paper size and paper type in your software driver from your computer, **4)** Print the job.

Choose the right paper size for the job

Most general office printing is done on A4 or letter size paper. However, the HP Officejet Enterprise Color MFP X585 series supports many additional standard paper sizes, as shown in the table below. In addition, custom size can be used to set a unique size within the limits specified for each tray.

Supported paper sizes

	Tray 1 (left side)	Tray 2 (main cassette)	Tray 3 (optional)	Automatic duplex
Any Size	✓			
Letter (8.5x11)	✓	✓	✓	✓
Legal (8.5x14)	✓		✓	✓
Executive (7.25x10.5)	✓	✓	✓	✓
Statement (5.5x8.5)	✓	✓	✓	
Oficio (8.5x13)	✓		✓	✓
3x5	✓			
4x6	✓			
5x7	✓			
5x8	✓			
A4 (210x297 mm)	✓	✓	✓	✓
A5 (149x210 mm)	✓	✓	✓	
A6 (105x148 mm)	✓	✓	✓	
RA4 (215x305 mm)	✓		✓	
B5 (182x257 mm)	✓	✓	✓	✓
B6 (128x182 mm)	✓			
10x15 cm	✓			
16K (195x270 mm)	✓	✓	✓	
16K (184x260 mm)	✓	✓	✓	
16K (197x273 mm)	✓	✓	✓	
Postcard JIS (100x148 mm)	✓			
DPostcard JIS (148x200 mm)	✓			
Envelope #9	✓			
Envelope #10	✓	✓		
Envelope Monarch	✓			
Envelope B5	✓	✓		
Envelope C5	✓	✓		
Envelope C6	✓			
Envelope DL	✓	✓		
Custom	3 x 5 to 8.5 to 14 in	4 x 8.27 to 8.5 x 11.7 in	4 x 8.27 to 8.5 x 14 in	
Any Custom	✓	✓	✓	
Oficio (216x340 mm)	✓		✓	✓
L (9x13 cm)	✓			
Envelope Chou #3	✓	✓		
Envelope Chou #4	✓			

Choose the right paper type for the job

General guidelines for selecting paper:

- Use paper that is of good quality and free of cuts, nicks, tears, spots, loose particles, dust, wrinkles, voids, staples, and curled or bent edges.
- Use paper that has not been previously printed on.
- Use paper that is designed for use in inkjet printers or multipurpose paper.
- Use paper that is not too rough. Using smoother paper generally results in better print quality.

NOTE: Based on independent third-party testing using a range of plain papers,³⁶ HP recommends using papers with ColorLok Technology with this product for best printing results. ColorLok is now an industry standard and paper with this technology is available from a wide variety of paper manufacturers worldwide. Just look for the ColorLok logo on the packaging. For information on HP-branded papers with ColorLok, go to hp.com/sbso/product/supplies/paper_colorlok.



Most general office printing is done on 20 lb (75 g/m²) multipurpose paper in North America and 80 g/m² multipurpose paper in Europe and other parts of the world, which produces excellent results. When printing on multipurpose paper, you can use the default “Plain” or “Any Type” selection on the *control panel* and the default “Unspecified” type selection in the *software driver*.

For exceptional results you may want to choose paper carefully. For example, in most cases 20 lb ColorLok branded paper costs about the same as non-ColorLok media but produces bolder blacks and more vivid colors, and dries up to three times faster—and there’s no need to specify the paper type.

If you print pages with heavy ink coverage—such as dark PowerPoint backgrounds, vivid graphics, or photographs—consider using paper with ColorLok Technology, heavier paper, glossy paper, or photo paper. These papers can deliver stunning print output. Be sure to select the proper paper type when using special papers. (See “Optimizing your printed output” on page 21 for instructions.)

It is also important to know what paper to avoid. LaserJet papers are designed for fusing dry toner onto the paper. This design keeps wet ink on top of the surface of the LaserJet Glossy paper and can create a wet, smeared output when used in the X585 series. *Avoid using all LaserJet Glossy Paper in this product.* If you’re unsure whether the glossy paper is LaserJet or Inkjet, print a test page with a few words of text and see if it smears. If it does, then do not use that paper. Likewise, some photo paper can only be printed on one side. If printing from tray 2 or tray 3, load the paper with the glossy side facing up. If printing from tray 1, load the paper with the glossy side facing down.

If wet, smeared output does get printed, simply discard the printed pages, clean the output bin with a damp cloth, and run the “Resolve Ink Smear” maintenance routine to clean the inside of the printer (from the control panel home menu, choose: Device Maintenance → Calibration/Cleaning → Resolve Ink Smear).

Below is a simple table to guide your paper selection and printing choices for the X585 series.

General print job and paper type

	Multipurpose paper	Multipurpose paper (ColorLok)	Inkjet paper (Matte/Glossy)	LaserJet paper (Matte)	LaserJet paper (Glossy)	Photo and other media
Everyday —copy jobs, memos, emails, proposals, internet printouts	Great results	Excellent results: bolder blacks, vivid colors, faster drying	Superior results: heavier and glossy papers have higher quality feel	Results vary: Plain LaserJet paper generally works fine	Unsupported: can cause wet, smeared output	n/a
Professional —brochures, flyers, presentations, business reports	Good results	Excellent results: bolder blacks, vivid colors, faster drying	Superior results: heavier papers best for high coverage prints	Results vary: Plain LaserJet paper generally works fine	Unsupported: can cause wet, smeared output	n/a
Specialty —tri-fold brochures, labels, envelopes	n/a	n/a	Superior results: for tri-fold brochures	Results vary: Plain LaserJet paper generally works fine	Unsupported: can cause wet, smeared output	Labels should be multipurpose or Inkjet, envelopes should be multipurpose
Photos —full page photos, photos as part of business plan	Good results	Excellent results: bolder blacks, vivid colors, faster drying	Superior results: heavier and glossy paper create better output for photos	Results vary: Plain LaserJet paper generally works fine	Unsupported: can cause wet, smeared output	Best results: stunning photos on matte and glossy photo paper

Supported paper types

The table below lists all supported paper types for the HP Officejet Enterprise Color MFP X585 series, by control panel name and print driver name.

Paper type (control panel)	Paper type (driver)	Tray 1 (left side)	Tray 2 (main cassette)	Tray 3 (optional)	Automatic duplex
Under Trays menu or upon loading	Under Shortcuts and Paper/Quality tabs				
n/a	Unspecified				
Any Type	n/a	✓			
Plain	Plain	✓	✓	✓	✓
HP Inkjet Matte 120g	HP Premium Presentation Matte 120g	✓	✓	✓	✓
Light 60-74g	Light 60-74g	✓	✓	✓	✓
Intermediate 85-95g	Intermediate 85-95g	✓	✓	✓	✓
Mid-Weight 96-110g	Mid-Weight 96-110g	✓	✓	✓	✓
Heavy 111-130g	Heavy 111-130g	✓	✓	✓	✓
Extra Heavy 131-175g	Extra Heavy 131-175g	✓	✓	✓	✓
Cardstock 176-220g	Cardstock 176-220g	✓	✓	✓	
Labels	Labels	✓	✓	✓	
Letterhead	Letterhead	✓	✓	✓	✓
Envelope	Envelope	✓	✓	✓	
Heavy Envelope	Heavy Envelope	✓	✓	✓	
Preprinted	Preprinted	✓	✓	✓	✓
Prepunched	Prepunched	✓	✓	✓	✓
Colored	Colored	✓	✓	✓	✓
Bond	Bond	✓	✓	✓	✓
Recycled	Recycled	✓	✓	✓	✓
Rough	Rough	✓	✓	✓	✓
HP EcoSMART Lite	HP EcoSMART Lite	✓	✓	✓	✓
HP Inkjet Matte 180g	HP Brochure Matte 180g	✓	✓	✓	✓
HP Inkjet Gloss 180g	HP Brochure Gloss 180g	✓	✓	✓	✓
HP Advanced Photo	HP Advanced Photo Papers	Up to 300g	up to 250g	up to 250g	

Recommended HP paper types

The table below and on the next page lists the paper types HP recommends for use in the X585 series.

	Recommended HP Paper*	Paper type (control panel) Under Trays Menu or upon loading	ColorLok	Weight	Cost per page**	Two-sided
Everyday	HP Multipurpose Paper	Plain (or "Any Type")	✓	20 lb (75 g)	\$0.012	✓
	HP Recycled Paper	Plain (or "Any Type")	✓	20 lb (75 g)	\$0.012	✓
	HP Office Paper	Plain (or "Any Type")	✓	20 lb (75 g)	\$0.010	✓
	HP Everyday Paper Copy/Print	Plain (or "Any Type")	✓	20 lb (75 g)	\$0.013	✓
	HP Business Copy Paper	Plain (or "Any Type")	✓	20 lb (75 g)	\$0.012	✓
	HP Color Inkjet Paper	Plain (or Intermediate 85-95g)	✓	24 lb (90 g)	\$0.024	✓
	HP Bright White Inkjet Paper	Plain (or Intermediate 85-95g)	✓	24 lb (90 g)	\$0.025	✓
Professional	HP Premium Presentation Matte	HP Inkjet Matte 120g		32 lb (120 g)	\$0.133	✓
	HP Brochure Paper Matte	HP Inkjet Matte 180g		48 lb (180 g)	\$0.233	✓
	HP Brochure Paper Glossy	HP Inkjet Gloss 180g		48 lb (180 g)	\$0.233	✓
Specialty	HP Tri-fold Brochure Paper Matte	HP Inkjet Matte 180g		48 lb (180 g)	\$0.280	✓
	HP Tri-fold Brochure Paper Glossy	HP Inkjet Gloss 180g		48 lb (180 g)	\$0.280	✓

Photo	HP Brochure Paper Matte	HP Inkjet Matte 180g	48 lb (180 g)	\$0.233	✓
	HP Brochure Paper Glossy	HP Inkjet Gloss 180g	48lb (180g)	\$0.233	✓
	HP Advanced Photo Paper Glossy	HP Advanced Photo	66lb (250g)	\$0.350	
	HP Everyday Photo Paper Glossy	HP Advanced Photo	53lb (200g)	\$0.200	
	HP Everyday Photo Paper Matte	HP Advanced Photo	33lb (125g)	\$0.200	✓

* HP doesn't recommend paper from other manufacturers, as we can't control their manufacturing quality.

** Costs per page are estimated street prices for letter size calculated from ream and package prices from HP's Paper Selector Guide, U.S. Version Feb 2013: hp.com/sbso/special/hp-paper-selectorguide.pdf.

Choose the right print quality level for the job

The HP X585 series provides three Quality Levels for printing. From the control panel touch Administration → General Print Settings → Default Print Options → Quality Level. Select General Office for fastest print speeds and lower ink usage. Select Professional, which is the default mode, for normal print speed and ink usage. Select Presentation mode for slowest print and highest ink usage. More ink tends to produce more vivid colors but is often best suited to papers with ColorLok Technology and specialty media such as HP Brochure 180g Matte or Glossy.

When printing, from the driver select Properties, then chose the Paper/Quality tab and select the Print Quality drop down menu in the lower right quarter of the pop-up. Select General Office, Professional, or Presentation. This selection will override the setting on the control panel for that job.

Issues and recommended actions

The following table shows a list of possible issues that may be related to paper quality, how you load paper into the tray, or how you set the paper type on the control panel or in the software driver. Some issues may simply be the result of expectations. For example, 16 lb (60 g/m²) papers tend to have much more strike-through and may not be suited to duplex printing.

Issue	Recommended action
Colors seem dull or washed out	Use ColorLok media for vivid colors, bolder blacks, and faster drying time. ColorLok media also works in LaserJet printers and helps increase product life. Consider using Professional HP Inkjet papers listed in "Recommended HP paper types" table above.
Printed page is excessively curled	Excessive curl is caused by a bad combination of printed areas of high ink concentration, paper, and low-humidity environments. <ul style="list-style-type: none"> • Curl is highly dependent on paper characteristics. Try using a different paper, especially if you are using 16 lb (60 g/m²) paper. • Papers with ColorLok Technology tend to curl less. You may need to use heavier papers such as 24 lb (90 g/m²) or 32 lb (120 g/m²).
Output is wet to touch	Longer drying times can be caused by certain papers, high concentrations of ink in printed areas, and high-humidity environments. <ul style="list-style-type: none"> • Papers with ColorLok Technology dry faster. You may need to use heavier papers such as 24 lb (90 g/m²) or 32 lb (120 g/m²) which can absorb more ink and hence dry faster.
Wrinkles in printed areas (called cockle)	Excessive cockle is caused by a bad combination of printed areas of high ink concentration, paper, and low-humidity environments. <ul style="list-style-type: none"> • Lighter weight papers cockle more, so consider using heavier weight papers. • Papers with ColorLok Technology tend to cockle less than non-ColorLok papers.
Strike-through	Excessive visibility of the printed image from the back side of the sheet is due to paper that has low opaqueness or is too thin. <ul style="list-style-type: none"> • Consider using a heavier paper. • Consider using paper with ColorLok Technology as it is specially formulated to keep ink pigments on the surface of the paper instead of bleeding into the paper itself.
Smearred ink on glossy paper	There are many coated (glossy) papers such as LaserJet Glossy Papers that do not work in this device. The ink cannot absorb into the media and creates a wet, messy output. Fortunately this condition can be avoided: <ul style="list-style-type: none"> • Never use LaserJet Glossy paper. • Never use coated paper developed for offset printing. • HP Recommends HP Brochure Paper Glossy, 180g (48 lb) which can be printed on both sides and is reasonably priced. • If you do print on LaserJet glossy paper or other paper which does not let ink absorb into the paper use the following steps to recover: <ul style="list-style-type: none"> - Remove and discard smeared paper, then clean ink off the surface of the output bin using a clean, moist cloth. - Run a cleaning diagnostic: Load plain paper in tray 2 and set to Plain (A4 or Letter size). From the control panel touch Device Maintenance → Calibration/Cleaning → Resolve Ink Smear → Start.
Highlighter smears ink on printed page	Good highlighters will not smear ink on the printed page when using one pass of the highlighter. <ul style="list-style-type: none"> • Use a single pass when highlighting your printed documents.

Vertical white lines (streaks)

White streaks (vertical for portrait prints, horizontal for landscape prints) can occur for a variety of reasons but can almost always be corrected.

- Paper dust can block nozzles and create vertical white lines called streaks. The X585 series monitors nozzle health and cleans the print head accordingly. However, streaks may occur, especially if low quality paper is used.
 - Use quality paper.
 - From the control panel, touch Device Maintenance → Calibration/Cleaning → Printhead Cleaning and touch “Continue” to begin the cleaning process. This normally takes about 15 minutes. The printer will produce a Print Quality Report. If streaks appear in any of the color bars, continue with the troubleshooting steps presented on the control panel.
 - Printing solid color patterns of cyan, magenta, yellow, or black may be needed in some cases to restore full nozzle health and eliminate streaks. To get further assistance in print-quality troubleshooting, go to hp.com/support/ojcolorMFPX585 and select PQ Troubleshooting Tools.
- Cold temperature: Ink will freeze. If the printer has been in a below freezing environment then it may need 24 to 48 hours to completely acclimate after being brought into an operating environment (15 to 30 degrees Celsius, 59 to 86 degrees Fahrenheit).
 - Allow at least 24 hours for the X585 series to acclimate to room temperature for initial setup if the device has been exposed to temperatures below 5 degrees Celsius (41 degrees Fahrenheit).

Ragged or missing colors in vertical bands from top to bottom of page (blocked nozzles)

- Dirty Power Off: The X585 series should always be powered off using the front panel power button located on the front lower left of the unit. This ensures the print bar is properly capped and protected. If the power cord is pulled or power to the unit is lost, the print bar may be uncapped and the ink in the nozzles could dry, creating streaks. The longer the unit is left in this condition, the more difficult it is to recover.
 - Never remove power from the X585 series without first powering off the device using the power button.
 - Follow the same printhead cleaning instructions given above for streaking caused by paper dust.

Wrong colors or color variation in bands from top to bottom of page (ink mixing)

- Transportation of unit: If the X585 series is transported to a new location, ink mixing across the nozzles may occur. This will result in bands of colors being mixed from top to bottom of page.
 - When transporting the X585 series after initial setup, power-off the unit correctly and carefully move it on a cart, keeping it in the correct orientation. Turn the unit on and print a test page as soon as possible (from the control panel, go to Administration → Troubleshooting → Print Quality Pages → Print Quality Report → Print). If it's necessary to clean the print head, use the same instructions given above for streaking caused by paper dust.
 - Printing solid color patterns of cyan, magenta, yellow, or black may be needed in some cases to restore clear ink mixing. To get further assistance in print-quality troubleshooting, go to hp.com/support/ojcolorMFPX585 and select PQ Troubleshooting Tools.

I want to print photos

Stunning results can be achieved when using the correct media.

- HP recommends HP Brochure Paper, Matte 180 g or HP Brochure Paper, Glossy 180 g for excellent results for letter sized photos or graphics. These papers can be printed on both sides.
- HP also recommends HP Advanced Photo papers that come in a variety of photo sizes. These papers can only be printed on one side.

Multi-feeds

Sheets can occasionally stick to each other or be damaged such that two or more sheets are held together when picked. Most often these pages will travel together through the printer and a blank page will be seen in the printed stack of pages.

- Discard dog-eared sheets or wrinkled sheets.
- Do not mix different paper types in the same tray.
- Load paper one half to one full ream at a time.
- Occasionally, a multi-pick will result in the second sheet shifting from the leading (top) sheet. In these cases a sensor will detect that the page is longer than expected and post a message to the control panel. If this occurs you can discard the blank sheet(s), check the paper size loaded in the tray, and check that the length and width settings are adjusted correctly.
- Try removing the stack of paper from the tray and flex it, rotate it 180 degrees, and flip it over. Do not fan the paper. Return the stack of paper to the tray.
- Use only paper that meets HP specification for this product.

Paper jams

Paper jams occasionally occur. A high rate of paper jams could be due to several issues.

- Paper loaded in the tray is not “Typed” correctly. For example, if you load Cardstock paper into a tray, the control panel will prompt you to pick the correct type from a list. You must select Cardstock or the device will think that a different paper, such as Plain, is loaded. Since the device adjusts its picking method based on paper type, miss-pick jams may result when the wrong type is selected.
- Discard dog-eared sheets or wrinkled sheets.
- When jams do occur, follow the illustrated steps on the control panel to find and remove the jam.
- If a sheet has to be removed from tray 2, carefully remove the tray, grab the paper at both corners and gently pull to remove, being careful not to tear the page.

Full ream of paper doesn't quite fit in tray

Occasionally you may not be able to fit a full ream of paper into tray 2 or tray 3. This could be due to variation in paper weights and can occur more often in high humidity environments because the paper absorbs the moisture and expands slightly.

- When loading paper, make sure no pages are pushed toward you while closing the tray. These pages may get damaged and have to be discarded. Otherwise, simply set them aside and load them later, after printing a sufficient number of pages to make room in the tray.

By following the instructions in this media guide, you can enjoy high-speed, low-cost, high-quality results page after page with your HP Officejet Enterprise Color MFP X585 series.

Technical specifications

	HP Officejet Enterprise Color MFP X585dn	HP Officejet Enterprise Color MFP X585f	HP Officejet Enterprise Color Flow MFP X585z
Product number	B5L04A	B5L05A	B5L06A
Print speed	Black or color: Professional: up to 44 ppm, letter (42 ppm, A4); ¹⁴ General office: up to 72 ppm, letter (70 ppm, A4); Duplex: up to 22 ppm, letter/A4		
First page out¹⁵	As fast as 8 seconds from Ready mode, letter/A4		
Print resolution			
Black	Up to 1200 x 1200 optimized dpi from 600 x 600 input dpi (on ColorLok, Plain, HP Premium Presentation Matte, and HP Brochure Matte)		
Color	Up to 2400 x 1200 optimized dpi from 600 x 600 input dpi (on HP Advanced Photo Papers)		
Control panel/data entry	8.0-in (20.3 cm) color LCD 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		Plus: external pull-out keyboard
Print features	HP PageWide Technology with pigmented inks, print preview, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, job separator		
Scan features			
Scanner smart software	Optimize text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect color; Edge Erase; Job notification; Blank page suppression; HP Quick Sets		
Scan resolution / bit depth	Up to 600 x 600 dpi; 24-bit; grayscale levels: 256		
ADF scan speed (letter/A4)	Color and black: Single-sided: Up to 44/41 ipm; Two-sided: Up to 18/18 ipm	Single-sided: Color: Up to 63/59 ipm Black-only: Up to 65/62 ipm Two-sided: Color: Up to 66/62 ipm Black-only: Up to 89/86 ipm	
Scan sizes	Flatbed: No minimum; Maximum: 8.5 x 14 in (216 x 356 mm) ADF: Minimum: 2.7 x 5.8 in (68.6 x 147.3 mm); Maximum: 8.5 x 14 in (216 x 356 mm)		
Digital sending	Scan to Email; Save-to-Network Folder; Save-to-USB drive; Send to FTP; Send to Internet Fax; Local Address Book; SMTP over SSL	Scan to Email; Save-to-Network Folder; Save to SharePoint; Save-to-USB drive; Send to FTP; Send to Internet Fax; Local Address Book; SMTP over SSL	
Scan file formats	PDF, JPEG, TIFF, MTIFF, XPS, PDF/A	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 input modes	Front panel applications: Copy, Email, Save to Network Folder, Save to USB, Save to Device Memory, Open Extensibility Platform (OXP) application	Front panel applications: Copy, Email, Save to Network Folder, Save to SharePoint, Save to USB, Save to Device Memory, Open Extensibility Platform (OXP) applications	
Copy features			
Copy resolution	Black and color, text and graphics: Up to 600 x 600 dpi (flatbed), 300 x 600 dpi (ADF)		
ADF copy speed ³⁷	Up to 42 ppm, letter (39 ppm, A4) (laser comparable); First copy out: as fast as 12 seconds		
Copier Smart Software features	Auto scale; Reduce/enlarge from scanner glass (25 to 400 percent); Collate; Auto color detection; Two-sided copying; Image adjustments (darkness, background cleanup, sharpness); Job build		

	HP Officejet Enterprise Color MFP X585dn	HP Officejet Enterprise Color MFP X585f	HP Officejet Enterprise Color Flow MFP X585z
Copier settings	Up to 9999 copies, 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		
Fax features	<p>Fax resolution: black (standard): 204 x 98 dpi, black-and-white (fine): 204 x 196 dpi, photo (grayscale), black (best): Up to 300 x 300 dpi (400 x 400 dpi for received faxes only; fax speed up to 33.6 kbps)</p> <p>Fax features: auto fax reduction (fit to letter or A4), auto-redialing, two-sided faxing, broadcasting up to 100 numbers (each with 100 destinations), fax forwarding, speed dialing up to 100 numbers (each with 100 destinations) storable in memory, fax polling supported (receive only), junk barrier, PC interface</p>		
Processor	796 MHz		
Memory	1.8 GB RAM		
Hard disk	HP High-Performance Secure Hard Disk, minimum 320 GB; AES 256 hardware encryption or greater; Secure erase capabilities (Secure File Erase – Temporary Job Files, Secure Erase – Job Data, Secure ATA Erase – Disk)		
Durability ratings			
RMPV (recommended monthly page volume) ³⁰	2,000 to 6,000		
RMSV (recommended monthly scan volume)	6,250 to 10,500 pages	26,750 to 44,500 pages	
Duty cycle ³¹	Print: up to 75,000 pages (letter, A4); Scan, copy, ADF: up to 50,000 pages		
Media specifications			
Input capacities	<p>Standard: up to 550 sheets; Maximum: up to 1,050 sheets</p> <p>Tray 1: 50 sheets; Tray 2: 500 sheets; Optional tray 3: 500 sheets</p> <p>ADF: 50 sheets, reversing</p> <p>ADF: 100 sheets, dual head, single-pass duplexing with HP EveryPage</p>		
Output capacities	Up to 300 sheets		
Two-sided printing	Automatic		
Media sizes	<p>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); Oficio, A4, A5, A6, B5 (JIS), B6 (JIS), 16K, 10 x 15 cm, L, Hagaki, envelopes (B5, C5, C6, DL, Chou #3, Chou #4); Custom sizes: 3 x 5 to 8.5 x 14 in (76 x 127 to 216 x 356 mm)</p> <p>Tray 2: Letter, statement, executive, envelopes (No. 10); A4, A5, B5 (JIS), 16K, envelopes (DL, B5, C5, Chou #3); Custom sizes: 4.0 x 8.3 to 8.5 x 11.7 in (102 x 210 to 216 x 297 mm)</p> <p>Optional tray 3: Letter, oficio, legal, statement, executive; A4, A5, B5 (JIS), 16K; Custom sizes: 4.0 x 8.3 to 8.5 x 14 in (102 x 210 to 216 x 356 mm)</p> <p>Duplex: Letter, legal, oficio, executive; A4, A5, RA4, B5 (JIS), 16K</p>		
Media weights	<p>Tray 1: Plain paper: 16 to 32 lb (60 to 120 g/m²); Photo: 33 to 80 lb (125 to 300 g/m²); Envelope: 20 to 24 lb (75 to 90 g/m²); Brochure: 32 to 48 lb (120 to 180 g/m²); Card: 44 to 53 lb (163 to 200 g/m²)</p> <p>Tray 2: Plain paper: 16 to 32 lb (60 to 120 g/m²); Photo: 33 to 66 lb (125 to 250 g/m²); Envelope: 20 to 24 lb (75 to 90 g/m²); Brochure: 32 to 48 lb (120 to 180 g/m²); Card: 44 to 53 lb (163 to 200 g/m²)</p> <p>Optional tray 3: Plain paper: 16 to 32 lb (60 to 120 g/m²); Photo: 33 to 66 lb (125 to 250 g/m²); Brochure: 32 to 48 lb (120 to 180 g/m²); Card: 44 to 53 lb (163 to 200 g/m²)</p> <p>Duplex: Plain paper: 16 to 32 lb (60 to 120 g/m²); Brochure: 32 to 48 lb (120 to 180 g/m²); Card: 44 to 53 lb (163 to 200 g/m²)</p>		
Media types	Plain paper (light, intermediate, mid-weight, heavy, extra heavy, pre-punched, recycled, bond, other inkjet plain paper), photo (glossy, gloss, matte, other inkjet photo), envelopes, labels, cards, specialty papers (glossy brochure, matte brochure, tri-fold brochure, greeting cards, other inkjet specialty paper)		
Print languages	HP PCL 6, HP PCL 5c (HP PCL 5c driver available from the Web only), HP Postscript Level 3 emulation, native PDF printing (v 1.4)		

	HP Officejet Enterprise Color MFP X585dn	HP Officejet Enterprise Color MFP X585f	HP Officejet Enterprise Color Flow MFP X585z
Fonts	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 hp.com/go/laserjetfonts		
Connectivity	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network; 1 Foreign Interface; 1 Hardware Integration Pocket; 2 Internal USB Host	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network; 1 Foreign Interface; 1 Hardware Integration Pocket; 2 Internal USB Host; 1 fax modem port	
Networking capabilities	Standard: Via HP Jetdirect Ethernet embedded print server supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec; Optional: 802.11b/g/n wireless networking ³⁸		
Mobile printing capabilities	Standard: HP ePrint, Apple AirPrint™; Optional: Wireless direct and touch-to-print printing		
Network protocols/configurations	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		
Security	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 Data: Storage Encryption, Encrypted PDF (uses FIPS 140 validated cryptographic libraries from Microsoft), Encrypted Email, Secure Erase, SSL/TLS, Encrypted Credentials Device: Security lock slot, USB port disablement, Hardware Integration Pocket for security solutions		
Printer management	HP Web Jetadmin; HP Utility (Mac)		
Supported operating systems³⁹	Windows XP SP3 or greater (32-bit and 64-bit), Windows Vista (32-bit and 64-bit), Windows 7 (32-bit and 64-bit), Windows 8 (32-bit and 64-bit), Windows Server 2003 SP2 or greater (32-bit and 64-bit), Windows Server 2008 (32-bit and 64-bit), Windows Server 2008 R2 (64-bit); Windows Server 2012 (64-bit) Mac OS X v10.7 Lion, OS X v10.8 Mountain Lion, OS X v10.9 Mavericks For the latest operating system support see: Air Print support.apple.com/kb/ht4356 ; Android Citrix and Windows Terminal Services (hp.com/go/upd); HP ePrint Software Driver hp.com/go/eprintsoftware ; Linux (hplip.net); Novell (novell.com/iprint); SAP device types hp.com/go/sap/drivers ; SAP Print hp.com/go/sap/print ; UNIX hp.com/go/unix ; UNIX JetDirect hp.com/go/jetdirectunix_software		
Network operating systems	Microsoft Windows 2000, Windows 2003 SP2+ 64-bit, Windows Server 2003 SP2+, Windows Terminal Services, Windows Vista (32-bit and 64-bit), Windows VistaReady, Windows XP SP3+ 64-bit, Windows XP SP3+ Home, Windows XP SP3+ Home, Windows XP SP3+ Professional, Windows XP SP3+ Professional and Windows Vista, Windows 7 SP1 or greater (32-bit and 64-bit), Windows 8 (32-bit and 64-bit), Windows Server 2008 (32-bit and 64-bit), Windows Server 2008 R2 (64-bit), Windows Server 2012 (64-bit), (For Microsoft IPv6 compatibility use Windows 2003, Windows XP Home, Windows XP Professional and Windows Vista) Mac OS X v10.7 Lion, OS X v10.8 Mountain Lion, OS X v10.9 Mavericks HP-UX 10.20, 11.x, 11.i, IBM AIX 3.2.5 or higher, MPE-iX; Citrix MetaFrame Server, Novell 5.1 or higher, Red Hat Linux 7.x or higher, Solaris 2.5 or higher (SPARC systems only), SuSe Linux 8.x or higher		
System requirements, PC	Microsoft Windows 8, Windows Vista, Windows 7 SP1+, Windows Server 2003 (SP1+), Windows Server 2008, Windows Server 2008 R2 (64 bit), Windows Server 2012 (64-bit), Windows XP (SP2+), CD-ROM or DVD drive, or Internet connection, Dedicated universal serial bus (USB 1.1 or 2.0), or network connection, 200 MB available hard disk space; Operating system compatible hardware system requirements see microsoft.com		
System requirements, Macintosh	Mac OS X v10.6, OS X 10.7 Lion, OS X 10.8 Mountain Lion, OS X v10.9 Mavericks, CD-ROM or DVD drive, or Internet connection, Dedicated universal serial bus (USB 1.1 or 2.0), or network connection, 1 GB of available hard disk space; Operating system compatible hardware system requirements see apple.com		
Dimensions (width x depth x height)	Operating: 21 x 21.5 x 22.6 in (533 x 546 x 574 mm) Maximum: 31.5 x 26.4 x 23.8 in (with multipurpose tray down and extended, main tray extended, output tray extension in legal position)		
Weight	80 lbs (36.3 kg) (with ink installed, no media in trays)		

	HP Officejet Enterprise Color MFP X585dn	HP Officejet Enterprise Color MFP X585f	HP Officejet Enterprise Color Flow MFP X585z
What's in the box	HP Officejet Enterprise Color MFP X585dn	HP Officejet Enterprise Color MFP X585f	HP Officejet Enterprise Color Flow MFP X585z
	Plus: introductory HP Officejet Black, Cyan, Yellow, Magenta print cartridges (Black: ~7,800 pages, Color: ~3,400 pages), ⁴⁰ Hardware Install Guide, warranty card, software and electronic documentation on CD-ROM, power cord		
Software included	HP PCL 6 Discrete Printer Driver, Mac SW Link to Web (Mac Installer), Windows Installer Downloadable software: Universal Print Driver for Windows, Windows CD image, Mac CD Image, Web JetAdmin, Easy Printer Care, Basic Color Match, Smart Web Printing In-House Marketing, Unix/Linux driver, Enterprise installer utility, Plug and Play bundles		
Warranty	One-year, onsite warranty; one-year technical phone support, chat, and email		
SureSupply	HP SureSupply alerts you when you should replace a print cartridge and helps you purchase locally or via the Internet. For more information, visit hp.com/learn/suresupply . Only available with original HP supplies; Internet access required.		

Environmental and power specifications

	HP Officejet Enterprise Color MFP X585dn	HP Officejet Enterprise Color MFP X585f	HP Officejet Enterprise Color Flow MFP X585z
Environmental ranges			
Temperatures	Operating: 59 to 86° F (15 to 30° C) Storage: Before initial start-up (Non-Purged): -40 to 140° F (-40 to 60° C); After initial start-up (Purged): 32 to 140° F (0 to 60° C) ⁴¹		
Relative humidity range	20 to 60% RH (recommended), 20 to 80% RH (operating), 5 to 90% RH (non-operating)		
Altitude	Up to 10,000 ft		
Acoustic power emissions	Printing: 6.7 B(A); Active copy: 7.1 B(A)		
Acoustic pressure emissions (bystander)	53 dB(A) (printing at 43 ppm)		
Power specifications	Energy Star 2.0, Blue Angel, EPEAT Silver		
Power supply required	Input voltage: 100 - 240 VAC, ~3A, 50/60 Hz		
Power consumption ⁴²	Printing: 67 watts; Manual off: 0.35 watts; Sleep: 9 watts; Ready: 34 watts; Auto-off/Manual On: 0.35 watts; Auto-off/Wake on LAN: 1.7 watts, disabled in default shipping configuration		
Typical Electricity Consumption (TEC)	2.8 kWh/week		
Energy-saving features	HP Auto-On/Auto-Off Technology; Instant-on Copy		
Environmental specifications	Mercury-free		
Safety and regulatory compliance	IEC 60950-1:2005 +A1; EN60950-1: 2006 +A11:2009 +A1:2010 +A12:2011; UL/cUL Listed (USA/Canada); GS Certificate (Germany, Europe); IEC 62479:2010; EN 62479:2010; Low Voltage Directive 2006/95/EC with CE Marking (Europe); other safety approvals as required by individual countries		
Electromagnetic emission standard	CISPR 22:2008 / EN 55022:2010 (Class A), EN 61000-3-2 :2006 +A1:2009 +A2:2009; EN 61000-3-3 :2008; EN 55024:2010; FCC Title 47 CFR, Part 15 Class A (USA); ICES-003, Issue 4 (Canada); EMC Directive 2004/108/EC with CE Marking (Europe); other EMC approvals as required by individual countries		
Telecom Compliance Certification	Fax Telecom: ES 203 021; R&TTE Directive 1999/5/EC (Annex II) with CE Marking (Europe); FCC Part 68; Industry Canada CS03; NOM-151-SCTI-1999 (Mexico); PTC-200 (New Zealand); other Telecom approvals as required by individual countries		

Ordering information

Use accessories and supplies specifically designed for the MFP to help provide efficient performance. To order the accessories and supplies listed here, go to hp.com. If you don't have access to the Internet, contact your qualified HP dealer, or call HP (U.S.) at (800) 282-6672. To contact HP by country, please visit welcome.hp.com/country/us/en/wwcontact_us.html.

Color MFPs	HP Officejet Enterprise Color MFP X585dn	B5L04A
	HP Officejet Enterprise Color MFP X585f	B5L05A
	HP Officejet Enterprise Color Flow MFP X585z	B5L06A
Supplies	HP 980 Cyan Original Ink Cartridge (~6,600 pages) ⁸	D8J07A
	HP 980 Magenta Original Ink Cartridge (~6,600 pages) ⁸	D8J08A
	HP 980 Yellow Original Ink Cartridge (~6,600 pages) ⁸	D8J09A
	HP 980 Black Original Ink Cartridge (~10,000 pages) ⁸	D8J10A
	ADF Roller Maintenance Kit	L2718A
	HP Officejet Ink Collection Unit	B5L09A
Accessories	HP Officejet Enterprise 500-sheet paper tray	B5L07A
	HP Officejet Enterprise Printer Cabinet and Stand	B5L08A
	HP MFP Analog Fax Accessory 500	CC487A
	HP Jetdirect 2700w USB Wireless Print Server ³⁸	J8026A
	HP Jetdirect 2800w NFC and Wireless Direct Accessory ³⁸	J8029A
	HP Jetdirect ew2500 Wireless Print Server	J8021A
HP Care Pack Services³² Select the right HP Care Pack Service for your MFP at hp.com/go/cpc	HP 3-year, 4-hour 9x5 Color Officejet X585 MFP Hardware Support	U1PC2E
	HP 3-year, 4-hour 13x5 Color Officejet X585 MFP Hardware Support	U1PC3E
	HP 3-year Next business day+Defective Media Retention Color Officejet X585 MFP Support	U1PC8E
	HP 4-year Next business day+Defective Media Retention Color Officejet X585 MFP Support	U1PC9E
	HP 5-year Next business day+Defective Media Retention Color Officejet X585 MFP Support	U1PD0E
Paper	North America: hp.com/go/paper	
Software	HP Web Jetadmin: hp.com/go/wja	
	HP Universal Print Driver: hp.com/go/upd	
	HP Imaging and Printing Security Center: hp.com/go/ipsc To learn more about available infrastructure, management, and workflow solutions, visit hp.com/go/gsc	

Notes

- ¹ Comparison based on manufacturers' published specifications of fastest available color mode (as of November 2013) and includes color laser MFPs ≤\$3,000 USD, based on market share as reported by IDC as of Q3 2013 and HP internal testing of printer in fastest available color mode (sample 4-page category documents tested from ISO 24734). For more information, see hp.com/go/printerspeeds.
- ² Cost per page (CPP) claim is based on the majority of color laser MFPs ≤\$3,000 USD as of December 2013, based on market share as reported by IDC as of Q3 2013. ISO yield is based on continuous printing in default mode. CPP comparisons for laser supplies are based on published specifications of the manufacturers' highest-capacity cartridges. For details, see hp.com/go/officejet. CPP based on HP 980A ink cartridges' estimated street price. For more information, see hp.com/go/learnaboutsplies.
- ³ Fade resistance based on paper industry predictions for acid-free papers and Original HP inks; colorant stability data at room temperature based on similar systems tested per ISO 11798 and ISO 18909. Water resistance based on HP internal testing, using paper with the ColorLok® logo.
- ⁴ Wireless direct printing requires purchase of optional module. Mobile device needs to be connected directly to the Wi-Fi network of a wireless-direct capable MFP prior to printing. Depending on mobile device, an app or driver may also be required. Wireless performance is dependent upon physical environment and distance from the access point in the MFP. For details, see hp.com/go/wirelessprinting.
- ⁵ Touch-to-print capability requires purchase of optional module. Mobile device must support near field communications-enabled printing. For a list of supported devices, see hp.com/go/businessmobileprinting.
- ⁶ 100-sheet ADF with HP EveryPage, integrated keyboard, and two-sided, single-pass scanning are available only on the HP Officejet Enterprise Color Flow MFP X585z. Fax functionality is only available standard on the X585z and X585f models. Fax functionality may be added as an optional accessory to the X585dn model.
- ⁷ HP Web Jetadmin is free and available for download at hp.com/go/webjetadmin. Universal device plug-in is offered with HP Web Jetadmin 10.3 SR4 and higher.
- ⁸ Page volume based on HP 980 Black, Cyan, Magenta and Yellow Ink Cartridges. Average yield based on ISO/IEC 24711 or HP testing methodology and continuous printing. Actual yield varies considerably based on content of printed pages and other factors.
- ⁹ Additional purchase of an optional paper tray is required.
- ¹⁰ Majority of color laser MFPs ≤\$3,000 USD based on market share as reported by IDC as of Q3 2013; for details, see hp.com/officejet. Energy use based on internal HP testing. Actual cost and energy usage may vary.
- ¹¹ Based on results of third-party testing of HP Officejet Enterprise Color MFP M585 series with HP 980 Original ink cartridges.
- ¹² Compared with the majority of color laser MFPs ≤\$3,000 USD based on market share as reported by IDC as of Q3 2013. Calculation compares weight of supplies and cartridge packaging needed for similar amount of pages based on ISO yield and continuous printing.
- ¹³ The HP Universal Print Driver is free and available for download at hp.com/go/upd.
- ¹⁴ ISO speeds measured using ISO/IEC 24734. Excludes first page or first set of ISO test pages. For details see hp.com/go/printerclaims.
- ¹⁵ Exact speed for first page out varies depending on the system configuration, software application, driver, and document complexity.
- ¹⁶ Testing performed in accordance with ISO 11798:2000 information and documentation, conducted by SP Technical Research Institute of Sweden, November 2012. For more information, see <http://www4.hp.com/certifications/se/sv>.
- ¹⁷ Embedded OCR on the HP Officejet Enterprise Color Flow MFP X585z is intended for occasional use. For high-volume OCR usage, consider optional server-based Digital Sending Software (DSS).
- ¹⁸ HP Digital Sending Software is optional and must be purchased separately.
- ¹⁹ Based on standard ITU-T test image #1 at standard resolution. More complicated pages or higher resolution will take longer and use more memory.
- ²⁰ For network-connected devices only.
- ²¹ Encrypted printing requires use of HP Universal Print Driver 5.3.1 Secure Encrypted Print feature.
- ²² At time of introduction, devices are in CCC evaluation process and certification will be complete at a future date.
- ²³ Contact your HP sales representative for more information on U.S. Government SKUs.
- ²⁴ Buyer's Lab, Inc. Outstanding Achievement in Security Solutions award, Winter, 2013. For details, see hp.com/large/ipq/gateway/security_center.
- ²⁵ HP Instant-on Security is part of HP Imaging and Printing Security Center, which must be purchased separately.
- ²⁶ HP Jetdirect 2800w is supported by most HP LaserJet Enterprise devices with FutureSmart firmware. The HP LaserJet Enterprise M4555 MFP series, HP Color LaserJet Enterprise CM4540 MFP series, and HP Color LaserJet Enterprise CP5550 Printer series do not support the HP Jetdirect 2800w, but do support the HP 1200w Mobile Print Accessory. HP 1200w Mobile Print Accessory works with HP Officejet Mobile 100/150 printers and HP LaserJet printers and multifunction products (MFPs) introduced in 2008 or later that are equipped with a USB port.
- ²⁷ Please note that while your mobile device is directly connected to the printer, access to content that requires Internet support (such as web pages or documents stored in the cloud) may not be supported while in HP wireless direct mode.
- ²⁸ Remote printing requires an Internet connection to an HP web-connected printer. App or software and HP ePrint account registration may also be required. Wireless broadband use requires separately purchased service contract for mobile devices. Check with service provider for coverage and availability in your area. See hp.com/go/mobileprinting for more details.
- ²⁹ Requires an Internet connection to the printer. Supports OS X® Lion, OS X® Mountain Lion and the following devices running iOS 4.2 or later: iPad® (all models), iPhone® (3GS or later) and iPod touch® (3rd generation or later). Works with HP's AirPrint-enabled printers and requires the printer be connected to the same network as your OS X or iOS device. Wireless performance is dependent upon physical environment and distance from the access point.
- ³⁰ HP recommends that the number of pages per month of imaged output be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.
- ³¹ Duty cycle is defined as the maximum number of pages per month of imaged output.
- ³² Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Restrictions and limitations apply. Service starts on date of hardware purchase. For details, visit hp.com/go/cpc.
- ³³ HP Auto-On/Auto-Off Technology capabilities subject to printer and settings; may require a firmware upgrade.
- ³⁴ Supports Microsoft® Internet Explorer 7.0, 8.0, and 9.0, as well as Mozilla® Firefox versions 3.5 through 5.01.
- ³⁵ Program availability varies. Original HP cartridge return and recycling is currently available in more than 48 countries, territories and regions in Asia, Europe, and North and South America through the HP Planet Partners program. For more information, visit hp.com/recycle.
- ³⁶ For more information, see the Spencer Labs report at spencerlab.com/reports/recent.asp.
- ³⁷ First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
- ³⁸ HP Jetdirect 2800w (J8029A) and HP Jetdirect 2700w (J8026A) accessories cannot be installed at the same time.
- ³⁹ Windows Installer has the same Operating System support as the printer driver except the following: Windows XP® SP3+ (32-bit only); Windows Server 2003 SP2+ (32-bit only); Windows Vista Starter not supported in Driver nor Installer; HP Software Installer CD for Windows - The HP PCL 6 discrete driver and .NET 3.5 SP1 are installed for Windows operating systems along with other optional software. .NET 4.0 is included in Windows 8 / Server 2012; HP Software for Mac is no longer included on the CD, but can be downloaded from hp.com - the Mac driver and Mac Utility are installed for Mac operating systems.
- ⁴⁰ Page volume based on HP 980 Black/980 Color ink cartridges. Average yield based on ISO/IEC 24711 or HP testing methodology and continuous printing. Actual yield varies considerably based on content of pages printed and other factors. Some ink from included cartridges is used to start up the printer. For more information, see hp.com/go/learnaboutsplies.
- ⁴¹ 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).
- ⁴² 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.

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