



# HP Color MFP S970dn

## High-volume printing with a high-value partner

Help increase productivity while driving costs down, with the HP Color MFP S970dn—part of a managed print services solution for your high-volume imaging and printing needs. Boost efficiency with fast scanning, high paper capacity, extensive finishing options, a 25.65 cm (10.1-inch) colour LCD touchscreen, and a pull-out keyboard—all on an easily integrated MFP with optional HP security and workflow solutions.



### Designed for high-volume environments

Help workgroups manage demanding workloads with an MFP designed to excel at the high end of department printing and in light production environments.

- Equip your team to quickly capture documents using 150 ipm, two-sided single-pass scanning.
- Make colour printing vibrant, consistent, and affordable for every department. Produce attractive, professional-quality reports and brochures, time after time.
- Spend less time loading paper and avoid costly interruptions with a workhorse MFP that offers high duty cycles and paper capacity up to 8,500 sheets.
- Save network space by compressing the size of scanned PDFs.
- Safeguard the sensitive data sent to your HP Color MFP S970dn with a built-in secure hard disk.
- Accelerate business results by printing and copying at up to 70 pages per minute.

### Fine-tuned fleet control

Take the weight off of IT's shoulders with an MFP that supports optional HP and third-party fleet management, security, and document management solutions—all part of a managed print environment set up by HP Managed Print Services.

- Streamline device integration with HP Web Jetadmin<sup>1</sup>—automatically discover and monitor new MFPs, and replenish supplies.
- Gain fresh insight into your printing environment with remote fleet-wide monitoring services.
- Make it easy for everyone to print, using the HP Universal Print Driver<sup>2</sup> with included PCL6 and PostScript protocols.
- The optional HP Access Control solution safeguards confidential documents with automatic, fleet-wide authentication measures that control access and reduce costs.
- Consolidate and streamline scanning, sending, and tracking processes using the easy-to-integrate, optional HP Capture and Route solution.
- Enable employees to print from mobile devices to selected HP or non-HP printers on your networks using the HP ePrint Enterprise server-based mobile printing solution.<sup>3</sup> It also enables workers on the go to print documents securely at more than 30,000 Public Print Locations worldwide.<sup>4</sup>
- Authenticate, encrypt, and manage print jobs using a centralised security solution such as SafeCom.
- Help keep important documents secure and reduce the risk of document fraud for localised, distributed, and light production workgroup applications. Print checks, prescriptions, transcripts, certificates, and other high-value documents using solutions offered by HP and TROY.
- Additional solutions may be available. Contact an HP sales representative to learn more.

### **Keep business moving**

Streamline your team's workflow and avoid delays with an MFP that keeps up with the pace of business in high-volume environments.

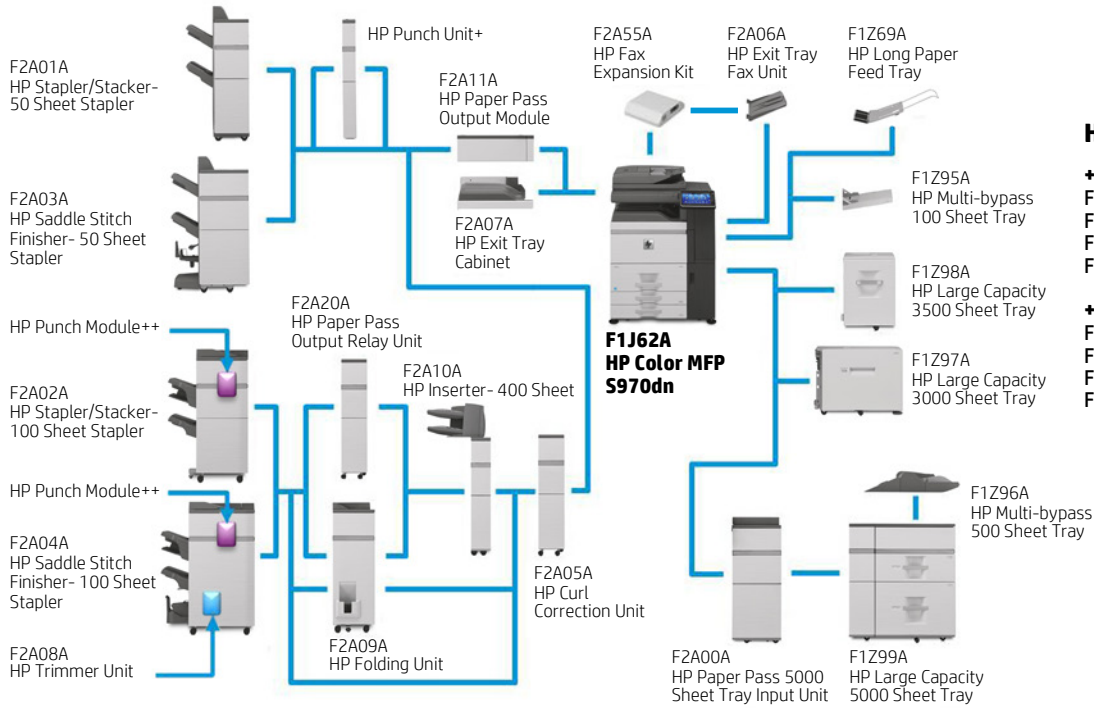
- Print, scan, copy, and fax using the adjustable 25.65 cm (10.1-inch) colour LCD touchscreen—use on-screen options to access controls, zoom in, preview and edit documents in real time. With image preview, you can easily get your documents to look just the way you want them prior to printing, which will minimise steps and reduce errors.
- Email documents and add keywords directly from the MFP, using the large pull-out keyboard.
- Equip users to work faster by digitising documents at a touch. Scan at high volumes and send files to email and network folders—straight from the intuitive colour touchscreen.
- Increase productivity with professional finishing options.<sup>5</sup> Achieve standout results, using automated tools like five-way multi-folding, post sheet insertion, trimming, hole punching and saddle stitching, with output capacities up to 4,250 sheets.

### **Follow a proven path to success**

Turn your printing assets into a strategic advantage with expert guidance through HP Managed Print Services.<sup>6</sup>

- Count on proven experts to evaluate your printing environment, give you a full view of your imaging and printing needs, and provide improvement recommendations.
- Strengthen your business and help lower your total cost of ownership. HP specialists help you plan, acquire, retire, and replace your assets as your needs evolve.
- Get help putting the right devices and software in the right locations to improve efficiency and streamline workflow.
- Receive information on print habits, device utilisation, and evolving needs to help identify ongoing improvements that strengthen your competitive advantage.

## Optional paper handling accessories



### HP Punch accessories

- + HP Punch Unit**
- F2A12A HP Punch 2 Hole Unit
- F2A13A HP Punch 2/3 Hole Unit
- F2A14A HP Punch 4 Hole Unit
- F2A15A HP Punch 4 Hole Wide Unit

- ++ HP Punch Module**
- F2A16A HP Punch 2 Hole Module
- F2A17A HP Punch 2/3 Hole Module
- F2A18A HP Punch 4 Hole Module
- F2A19A HP Punch 4 Hole Wide Module



HP Color MFP S970dn example configuration

## Technical specifications

<b>Control panel/data entry</b>	25.65 cm (10.1 inch) LCD Touch Panel WSVGA Colour Graphics with tilt, LED backlight, and contrast control Live preview/edit with gesturing
<b>Print speed</b>	Black/colour: up to 70 pages per minute, A4; Duplex: up to 73 images per minute (ipm), A4
<b>First page out<sup>7</sup></b>	Print: as fast as 10.5 seconds (black) and as fast as 12.5 seconds (colour), A4 Copy: as fast as 3.7 seconds (black) and as fast as 5.1 seconds (colour), A4
<b>Scan speed<sup>8</sup></b>	
Single-sided	Up to 75 ipm, black/colour (A4)
Two-sided	Up to 150 ipm, black/colour (A4)
<b>ADF input capacity</b>	Up to 150 sheets
<b>Copy speed</b>	Up to 70 copies per minute (cpm), A4; default rate from flatbed or ADF
<b>Fax speed<sup>9</sup></b>	Less than 2 seconds per page
<b>Print resolution</b>	Up to 1,200 x 1,200 dpi (colour); up to 600 x 600 dpi (black)
<b>Scanning resolution</b>	Up to 600 x 600 dpi
<b>Features</b>	
General	Front-facing USB printing Zoom range: 25 to 400% (25 to 200% using automatic document feeder) in 1% increments
Scanning	Flatbed colour scanner, up to 297 x 432 mm (11.7 x 17 in); 150-sheet ADF with two-sided single-pass scanning; Front panel scan, copy, e-mail, fax (with optional accessory)
Advanced imaging	Auto-blank page removal, live preview and edit, auto-colour detection, automatic background removal, hidden pattern copy/print
Digital sending	Scan to email; Scan to FTP server; Scan to folder; File formats for mono: TIFF, PDF, PDF/A, Encrypted PDF, XPS; File formats for colour: TIFF, JPEG, PDF, PDF/A, Encrypted PDF, High compression PDF, XPS
Copying	Multi Shot: Number of pages gathered – 2 in 1 / 4 in 1 / 8 in 1; Combination with Pamphlet Style (Only 2 in 1 / 4 in 1); Border Print; Centering. Margin Shift: Right/left/upper), Cover/inserts (maximum 2 cover types, maximum 100 insert sheets with appropriate finisher), Dual page copy, tab copy, book copy, book divide, stamp, pattern print, repeat layout, multi-page enlargement, mirror, full bleed copy, job build, proof copy, mixed size original Continuous copy: up to 9,999
Faxing	Fax is an optional accessory; Telephone features supported: on hook, pause time setting, switching between tone and pulse (10/20/TONE/Auto Select Availability of setting or the default value varies depending on the destination of the product) Max. of 2,000 entries (including group dialling for fax and scanner) Fax resolution: 203.2 x 97.8 dpi (standard) and 203.2 x 195.6 dpi (fine), 256 levels of grey
<b>Processor</b>	1.86 GHz; 600 MHz; 400 MHz
<b>Memory</b>	5 GB RAM
<b>Hard disk</b>	1 TB, Hard Disk capacity may vary, AES256 encryption available (must be enabled on the device)
<b>Durability ratings</b>	
RMPV (recommended monthly page volume)	27,500 pages to as high as 110,000 pages
Duty cycle	Up to 500,000 pages (A4)

<b>Media specifications</b>	
Input capacity	Up to 8,500 sheets maximum (3,100 sheets standard); Tray 1: up to 1,200 sheets; Tray 2: up to 800 sheets; Trays 3 and 4: up to 500 sheets each; Multi-bypass tray: up to 100 sheets Optional trays: 5,000 large capacity tray (2 drawer), 500 sheet multi-bypass tray, 3,000 sheet large capacity tray (A3), 3,500 sheet large capacity tray (A4), 100 sheet multi-bypass tray, 1 sheet long paper feeding tray, paper pass unit
Output capacity	Up to 4,350 sheets maximum (250 sheets standard) Optional: 4,250 sheet (100 sheet staple) finisher, 4,250 sheet (100 sheet staple) saddle stitch finisher, 4,000 sheet (50 sheet staple) finisher, 4,000 sheet (50 sheet staple) saddle stitch finisher, punch module, punch unit, trimming module, folding unit, inserter, relay unit, curl correction unit, paper pass unit, 100 sheet right hand exit tray, 250 sheet centre exit tray
Two-sided printing	Automatic
Media sizes	Maximum: A3W (12 x 18 in); Minimum: A5R (5 ½ x 8 ½ in R)
Media weights	Trays 1 and 2: 60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 to 28 lb) Trays 3 and 4: 60 g/m <sup>2</sup> to 220 g/m <sup>2</sup> (16 to 60 lb) ADF: 50 g/m <sup>2</sup> to 128 g/m <sup>2</sup> (13 to 34 lb) Multi-bypass: 55 g/m <sup>2</sup> to 300 g/m <sup>2</sup> (16 to 170 lb)
Media types	Thin paper, plain paper, recycled paper, coloured paper, letterhead, pre-printed paper, pre-punched paper, heavy paper, cardstock, embossed paper, tab, transparencies, labels, glossy paper, postcard (Japan), envelopes, banner media
<b>Connectivity</b>	1 Gigabit Ethernet 10/100Base-TX/1000Base-T; 1 USB Host (USB 1.1/USB 2.0 (High speed)); 1 USB Device (USB 1.1/USB 2.0 (High speed)); 1 Serial I/F; ACRE I/F; Video I/F (for EFI); Internal USB for IC Card Reader and Keyboard
<b>Network capabilities</b>	Via built-in 10/100Base-TX/1000Base-T networking
<b>Print languages</b>	PCL6 emulation, Adobe® PostScript®3™
<b>Fonts</b>	80 fonts for PCL, 136 fonts for Adobe PostScript 3
<b>Network protocols</b>	Via built-in networking solution: TCP/IP (IPv4, IPv6), IPX/SPX, EtherTalk; IPP, LPR; PSERVER/RPRINT for the NetWare environment; AppleTalk; FTP; HTTP; POP3
<b>Security</b>	Embedded web server password protection, secure browsing via SSL, network enable HTTPS, 802.1x, Community name changing when SNMP V1 Read Only access, SNMPv3, IPSec, network enable/disable port, admin password protected, up to 7 times disk erase capability (needs to be enabled)
<b>Compatible operating systems</b>	Server operating systems supported for UPD: <ul style="list-style-type: none"> <li>• Microsoft Windows 8, Pro, Enterprise; 32-bit and 64-bit</li> <li>• UPD Traditional Mode: Windows 8 desktop applications; Modern apps UPD Dynamic Mode: Windows 8 desktop applications</li> <li>• Microsoft Windows 7 Starter, Home Premium, Professional, Enterprise, and Ultimate; 32-bit and 64-bit</li> <li>• Microsoft Windows Vista Business, Enterprise, Home Basic, Home Premium, and Ultimate; 32-bit and 64-bit</li> <li>• Microsoft Windows XP SP3 Home Edition, and Professional; 32-bit and 64-bit</li> </ul>
<b>System requirements, Windows</b>	Client operating systems supported for UPD: <ul style="list-style-type: none"> <li>• Microsoft Windows 8, Pro, Enterprise; 32-bit and 64-bit</li> <li>• UPD Traditional Mode: Windows 8 desktop applications; Modern apps UPD Dynamic Mode: Windows 8 desktop applications</li> <li>• Microsoft Windows 7 Starter, Home Premium, Professional, Enterprise, and Ultimate; 32-bit and 64-bit</li> <li>• Microsoft Windows Vista Business, Enterprise, Home Basic, Home Premium, and Ultimate; 32-bit and 64-bit</li> <li>• Microsoft Windows XP SP3 Home Edition, and Professional; 32-bit and 64-bit</li> </ul>
<b>Dimensions (width x depth x height)</b>	845 x 844 x 1,222 mm (33.3 x 33.2 x 48.1 in)
<b>Weight (with print cartridges)</b>	222 kg (489 lb)
<b>What's in the box</b>	HP Color MFP S970dn, Quick Start Guide (on CD), Power cable, Toner Cartridges: Black, Cyan, Magenta, and Yellow, CMY Developer, Toner collection unit, Imaging drum, HP Application Communication Kit, HP Application Expansion Kit, HP Enhanced Compression Kit, HP External Account Kit

## Environmental and power specifications

### Environmental ranges

Temperatures	Operating: 10 to 35° C (54 to 91° F); Recommended: 20 to 25° C (68 to 77° F)
Relative humidity range	Operating: 20 to 85%; Recommended: 65 ± 5 % RH

### Acoustic power emissions

During operation (LwA[B]): Standard Spec, (RAL-UZ171): 7.5 (Monochrome); 7.5 (Colour)  
Blue Angel/China Standard: 8.07 B (Monochrome (0.035 x Sbw + 5.9)); 7.96 B (Colour (0.03 x Sco + 6.1))

### Power specifications

Power supply required	North America: 208-240V/12A, 60Hz, 20A PLG x 1 EU/Oceania/Asia/Other: 220-240V/8A, 50/60Hz, 10A PLG x 2 NA and EU: 2 switches (Primary switch: in the front cover, Secondary switch (momentary SW): on the operation panel)
Power consumption <sup>10</sup>	Printing: 1283.8 watts, Ready: 242.5 watts, Sleep: 1.0 watt, Off: 0.1 watts
Typical Electricity Consumption (TEC)	100V system: 7.777 kWh/week 200V system: 7.746 kWh/week

### Energy saving features

Blue Angel compliant, ENERGY STAR certified and EPEAT® Silver

### Safety and regulatory compliance

ENERGY STAR, UL listed, International Energy Star Program MFP (Ver. 1.2 US) (Ver. 1.1), European RoHS regulations, Europe REACH, ErP Lot4 (Duplex print default), CE Declaration of Conformity (CE marking), UL Certificate of Compliance (USA and Canada), Intertek GS certificate, CB Certificate, ACMA (Australia), other safety approvals as required by individual countries

### Electromagnetic emission standard

FCC CFR 47 Part 15 Class A, ICES-003 Issue 5 Class A, EN 55022:2010 Class A, EN 55024:2010, EN 61000-3-2:2006 +A1:2009 +A2:2009, EN 61000-3-3:2008, EMC Directive 2004/108/EC with CE Marking (Europe), other EMC approvals as required by individual countries

### Telecom compliance certification

EG 201 120 V1.1.1 (1998-01), EG 201 121 V1.1.3 (2000-02), ES 203 021-1 V2.1.1 (2005-08), ES 203 021-2 V2.1.2 (2006-01), ES 203 021-3 V2.1.2 (2006-01), FCC Rules and Regulations 47 CFR Part 68, R&TTE Directive 1999/5/EC (Annex II) with CE Marking (Europe); other Telecom approvals as required by individual countries

## Ordering information

<b>Product</b>	HP Color MFP S970dn	F1J62A
<b>Supplies</b>	HP Black Toner Cartridge (~65,000 pages)	F4Z22A
	HP Cyan Toner Cartridge (~40,000 pages)	F4Z23A
	HP Magenta Toner Cartridge (~40,000 pages)	F4Z24A
	HP Yellow Toner Cartridge (~40,000 pages)	F4Z25A
	HP Black Developer	F4Z27A
	HP CMY Developer	F4Z28A
	HP Staples – 2,000 Cartridge	F5A46A
	HP Staples – 5,000 Cartridge	F5A43A
	HP Staples – 5,000 Cartridge	F5A44A
	HP Staples – 5,000 Cartridge	F5A45A
	HP Stamp Cartridge	F7L88A
<b>Accessories</b>	HP Curl Correction Unit	F2A05A
	HP Exit Tray Cabinet	F2A07A
	HP Exit Tray Fax Unit	F2A06A
	HP Fax Expansion Kit	F2A55A
	HP Folding Unit	F2A09A
	HP Imprint/Physical Stamp Unit	F2A61A
	HP Inserter- 400 Sheet	F2A10A
	HP Large Capacity 3,000 Sheet Tray	F1Z97A
	HP Large Capacity 3,500 Sheet Tray	F1Z74A
	HP Large Capacity 3,500 Sheet Tray	F1Z98A
	HP Large Capacity 5,000 Sheet Tray	F1Z99A
<b>Accessories (continued)</b>	HP Long Paper Feed Tray	F1Z69A

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HP Multi-bypass 100 Sheet Tray	F1Z95A
HP Multi-bypass 500 Sheet Tray	F1Z96A
HP Paper Pass Output Module	F2A11A
HP Paper Pass Output Relay Unit	F2A20A
HP Paper Pass 5,000 Sheet Tray Input Unit	F2A00A
HP Punch 2 Hole Unit	F2A12A
HP Punch 2 Hole Unit	F2A42A
HP Punch 2/3 Hole Unit	F2A13A
HP Punch 2/3 Hole Unit	F2A43A
HP Punch 4 Hole Unit	F2A14A
HP Punch 4 Hole Unit	F2A44A
HP Punch 4 Hole Wide Unit	F2A15A
HP Punch 4 Hole Wide Unit	F2A45A
HP Punch 2 Hole Module	F2A16A
HP Punch 2 Hole Module	F2A34A
HP Punch 2/3 Hole Module	F2A17A
HP Punch 2/3 Hole Module	F2A35A
HP Punch 4 Hole Module	F2A18A
HP Punch 4 Hole Module	F2A36A
HP Punch 4 Hole Wide Module	F2A19A
HP Punch 4 Hole Wide Module	F2A37A
HP Saddle Stitch Finisher - 50 Sheet Stapler	F2A03A
HP Saddle Stitch Finisher - 100 Sheet Stapler	F2A04A
HP Saddle Stitch Finisher - 1,000 Sheet	F1Z78A
HP Saddle Stitch Finisher - 4,000 Sheet	F1Z79A
HP Stapler/Stacker - 50 Sheet Stapler	F2A01A
HP Stapler/Stacker - 100 Sheet Stapler	F2A02A
HP Stapler/Stacker - 4,000 Sheet	F1Z80A
HP Trimmer Unit	F2A08A

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## Notes

<sup>1</sup> HP Web Jetadmin is free and available for download at [hp.com/go/webjetadmin](http://hp.com/go/webjetadmin).

<sup>2</sup> The HP Universal Print Driver is free and available for download at [hp.com/go/upd](http://hp.com/go/upd).

<sup>3</sup> HP ePrint Enterprise requires HP ePrint Enterprise server software. App-based option requires Internet- and email-capable BlackBerry® smartphone OS 4.5 or newer, iPhone 3G or newer, iPad and iPod touch (2nd gen) devices running iOS 4.2 or later, or Android™ devices running version 2.1 or newer, with separately purchased wireless Internet service and the HP ePrint Enterprise app. Email-based option requires any email-capable device and authorized email address. Solution works with PCL5/6, PCL3, and PCL3GUI printers (HP and non-HP).

<sup>4</sup> Use of HP ePrint Enterprise app at HP ePrint Public Print Locations requires an Internet- and email-capable smartphone or tablet with separately purchased wireless Internet service. Availability and cost of printing vary by location. Visit [hp.com/go/eprintenterprise](http://hp.com/go/eprintenterprise) for more information.

<sup>5</sup> Finishing options must be purchased separately.

<sup>6</sup> Estimated energy and paper savings based on analysis of select HP Managed Print Services customers' imaging and printing operations using data gathered on devices and paper consumption, comparing with post-MPS actuals or projections. Results depend on unique business environments, the way HP products and services are used, and other factors. Overall printing costs are unique to each company and should not be relied on for savings you may achieve. According to industry analysts, savings of up to 30% are typical with managed print services.

<sup>7</sup> Exact speed varies depending on the system configuration, software application, driver and document complexity.

<sup>8</sup> Actual speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

<sup>9</sup> Less than 2 seconds per page is with Super G3/JBIG.

<sup>10</sup> Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer.

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