

# HP Color LaserJet 2800 All-in-One series

2820 • 2840



Experience the ultimate HP Color LaserJet with network printing, faxing, and scanning, plus walk up copying and direct digital photo printing in one space-saving design—you'll save time, space, and money and enjoy the simplicity and reliability you expect from HP LaserJet printers.

## Versatile color laser all-in-one

- **Communicate effectively.** The power, precision, and extensive capabilities of HP's Color LaserJet print, fax, scan, copy, and direct digital photo printing All-in-One allow more effective and efficient communication than ever before.<sup>1</sup>
- **Maximize productivity.** Featuring robust print and copy speeds of up to 20 pages per minute (ppm) letter black and up to 4 ppm color, the HP Color LaserJet 2800 AiO series lets your business produce professional documents with little time and effort.
- **Consolidate and share.** Built-in HP Jetdirect 10/100 Fast Ethernet wired networking lets your office workteam share all-in-one capabilities. For personal use or hosted sharing, connect directly via the Hi-Speed USB 2.0 port.

## Greater efficiency

- **Focus on business rather than waiting for output.** Instant-on Technology saves time and energy, delivering your print job's first page in 18 seconds for black-and-white documents (29 seconds for color documents). Small jobs finish before most competitors' products have warmed up.
- **Employ business-class faxing.** HP innovation and Super G3 fax technology provides professional and efficient faxing at up to 33.6 kbps (approximately 3 seconds per page) and fax memory storage for up to 250 pages.<sup>1</sup>
- **Scan, send, and archive at high resolution.** Integrate, store, or send brilliant images with up to 19,200 dpi enhanced scan resolution. Use the automatic document feeder (ADF) for unattended faxing, copying, and scanning of documents up to legal (8.5 by 14 inches) size, or use the flatbed scanner for bound and single sheet originals. Enjoy greater versatility with the ability to scan-to e-mail, scan-to PC desktop, scan-to PC folder, or scan-to network folder.
- **Count on HP printing technology.** A suite of image enhancement technologies is integrated into the all-in-one and its HP printing supplies: HP ImageREt 2400 ensures exceptional-quality color output, while HP Smart Printing Technology<sup>2</sup> monitors and makes automatic adjustments to cartridges to ensure consistent quality throughout cartridge life. Special fuser modes virtually eliminate print defects and provide optimal color printing on a variety of HP papers.

## Easy to use

- **Be assured of compatibility.** Depend on industry-standard HP PCL 6 and HP postscript level 3 emulation to yield the most precise, reliable, and consistent results.
- **Manage with confidence.** Access device and supplies information from the control panel, featuring a 16 character, two-line back-lit display. And with one-handed removal and replacement for the five supplies, management is quick and effortless. HP Toolbox, the HP Embedded Web Server, and HP Web Jetadmin remote management software lets you adjust settings, receive alerts, check status, and manage network and memory card slot access settings.<sup>3</sup>

## More for your money

- **Simplify digital imaging.** Capitalize on the convenience of integrated photo memory card slots featuring support for seven popular card types and formats. HP Image Zone for Windows® offers tools to view, enhance, manage, and share digital photos and scanned images. Conveniently print digital photos directly from the control panel with the card slots.<sup>1</sup>
- **Invest in versatility.** Get the multipurpose, easy-to-use HP Color LaserJet 2800 AiO series at an exceptional price. Reduce costs by printing strategic, high-quality color documents in-house. Increase efficiency by producing only what you need, when you need it.
- **Conveniently make precise copies.** Easily produce high-quality, color or black-and-white copies of bound documents, single sheets, or objects such as placards with the flatbed scanner. Use the ADF to quickly process multi-page documents.
- **Handle a variety of business needs.** Spend less time loading paper with an input capacity of up to 375 sheets. A 125-sheet multipurpose tray and a 250-sheet paper tray offer easy access to a variety of paper finishes, sizes, and types, including labels and envelopes, at weights of up to 47 lb (177 g/m<sup>2</sup>) and HP laser glossy and photo papers up to 70 lb (220 g/m<sup>2</sup>).<sup>1</sup>

HP printing and imaging systems help you create powerful, professional communications easily. All-in-one products, supplies, accessories, and services are designed together to work together and are invented to meet your business needs.

<sup>1</sup> Faxing, the 250-sheet paper input tray, and the photo memory card slots come standard with the HP Color LaserJet 2840 AiO.

The 250 sheet paper input tray (Q3952A) is an optional accessory for the HP Color LaserJet 2820 AiO only.

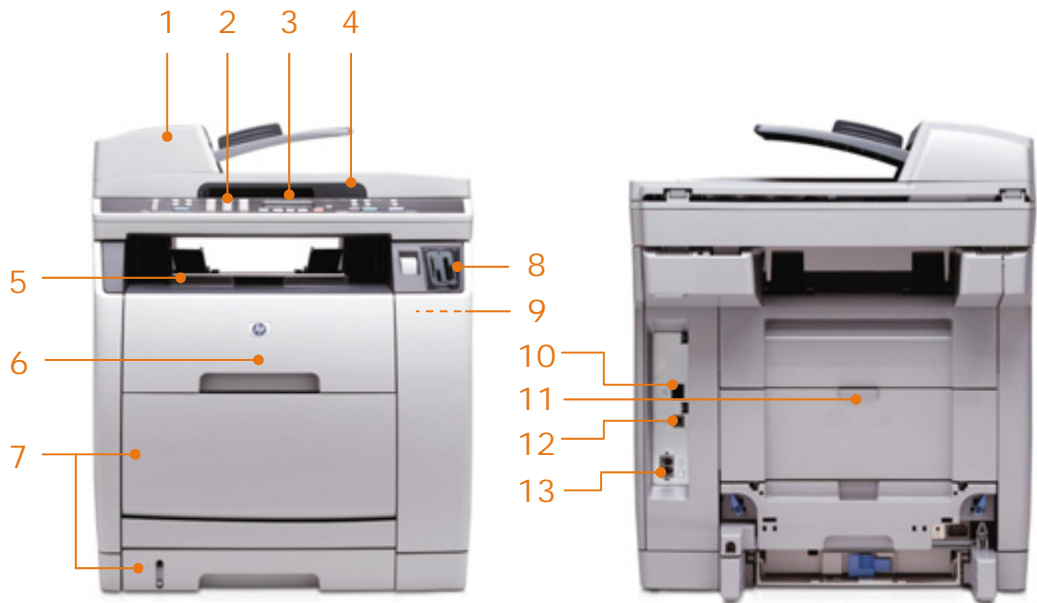
<sup>2</sup> Using genuine HP supplies ensures availability of all HP printing features.

<sup>3</sup> Photo memory card slot access settings are available via HP Toolbox and the HP Embedded Web Server only.



# HP Color LaserJet 2800 All-in-One series

- 1 50-sheet automatic document feeder (ADF) enables unattended faxing, scanning, and copying
- 2 Easy-to-use control panel provides instant access to the product's different modes
- 3 Easy-to-read, back-lit, two-line LCD screen displays helpful device status and configuration messages
- 4 Up to 1200 dpi optical, 19,200 enhanced dpi flatbed CCD scanner enables precise, easy copying and scanning of bound materials or single sheets
- 5 125-sheet output bin
- 6 One-door access to the imaging drum and four easy-to-install print cartridges
- 7 125-sheet multipurpose tray and 250-sheet paper tray 2 for a 375-sheet total input capacity
- 8 Photo memory card slots for direct photo printing, archiving, or easy integration into business documents
- 9 96 MB of standard memory and a powerful 264 MHz processor perform complex tasks quickly
- 10 Built-in HP Jetdirect Fast Ethernet wired networking
- 11 Rear door for straight-through paper path
- 12 Hi-Speed USB 2.0 port
- 13 Super G3 V.34 fax modem—up to 33.6 kilobytes per second—with 4 MB of fax flash memory



HP Color LaserJet 2840 AiO shown

## Series at a glance



### HP Color LaserJet 2820 AiO

- 125-sheet multipurpose tray
- HP Color LaserJet Black Print Cartridge (estimated 5,000 pages)<sup>4</sup>
- HP Color LaserJet Cyan, Magenta, and Yellow Print Cartridges (estimated 2,000 pages)<sup>4</sup>



### HP Color LaserJet 2840 AiO

- 125-sheet multipurpose tray
- 250-sheet paper input tray 2
- HP Color LaserJet Black Print Cartridge (estimated 5,000 pages)<sup>4</sup>
- HP Color LaserJet Cyan, Magenta, and Yellow Print Cartridges (estimated 4,000 pages)<sup>4</sup>
- V.34 fax modem
- Photo memory card slots

<sup>4</sup> Approximate page yield based on five percent page coverage.

# Enhance workteam productivity with this robust, reliable, easy-to-use color laser All-in-One.

## Easily scan and capture documents and images

Scan to e-mail, application, desktop, or computer or network folder with ease.

With the HP Color LaserJet 2800 AiO series, archiving, editing, and sending documents and images electronically is a fast, simple, and reliable way to capture paper-based documents in digital format, so you can better manage valuable information.

Use the ADF or flatbed scanner to easily scan business material—such as documents, manuals, and reports—directly to your computer's e-mail application, software application, or to a folder on your computer or network drive for easy archiving.

## Business imaging

With support for Compact Flash, xD, Secure Digital, Memory Stick, Memory Stick Pro, MultiMedia Card, and SmartMedia photo memory cards, the HP Color LaserJet 2840 AiO simplifies image management. Print images directly from supported memory cards via the control panel or transfer images and files to or from memory cards to supported and connected computer or network drives for archiving, editing, sharing, or integration into business documents.

## Powerful device management

Manage your networked All-in-One remotely with HP Toolbox, the HP Embedded Web Server, and HP Web Jetadmin software. Configure the device settings, photo memory card slot access, speed-dial buttons, and an authorized Network Administrator password to protect device network and memory card access settings.<sup>5</sup> These tasks and others can be conveniently performed directly from any networked computer with a standard Web browser, saving time and effort.

<sup>5</sup> Faxing and the photo memory card slots come standard with the HP Color LaserJet 2840 AiO. Photo memory card slot access settings are available via HP Toolbox and the HP Embedded Web Server only.

<sup>6</sup> Using genuine HP supplies ensures availability of all HP printing features.

<sup>7</sup> To learn more about HP SureSupply™, visit [www.hp.com/go/SureSupply.com](http://www.hp.com/go/SureSupply.com).

## HP Smart printing supplies advantage<sup>6</sup>

HP papers and HP Color LaserJet print cartridges are designed to work together with HP printing devices, so you can depend on consistent, high-quality results. HP designs its print cartridges to continually adjust toner properties to ensure high-quality output over the life of the cartridge, which enables the precise printing needed for halftone images, smooth grayscales, and fine details. HP Smart printing technology is activated every time you put an HP print cartridge into your product, allowing you to monitor your current supplies, and conveniently order new supplies with HP SureSupply™.<sup>7</sup>

## Award-winning HP support

HP offers a variety of support options to assist you in the setup and maintenance of the HP Color LaserJet 2800 All-in-One series. HP's expert knowledge will help you make the most of your AiO and ensure your equipment is running at peak efficiency. Start with a one-year, limited hardware, onsite HP warranty, backed by free telephone and Web support from the award-winning HP Customer Care (warranty and availability vary according to region). To further guarantee trouble-free operation and maximize the potential of your HP Color LaserJet AiO, consider upgrading service and support options such as installation, network installation, advanced maintenance, and post-warranty support.

# HP Color LaserJet 2800 All-in-One series

Technical specifications	HP Color LaserJet 2820 AIO (Q3948A)	HP Color LaserJet 2840 AIO (Q3950A)
<b>Print speed<sup>9</sup></b>	Black-and-white: up to 20 ppm letter; full page color: up to 4 ppm	
<b>First page out</b>	Black-and-white: 18 seconds; color: 29 seconds	
<b>Print quality</b>	Black-and-white: up to FastRes 1200 print quality (600 by 600 dpi); Color: up to ImageREt 2400 print quality (600 by 600 dpi)	
<b>Copy quality</b>	Black-and-white: up to 600 by 600 dpi; Color: up to ImageREt 2400 print quality (600 by 600 dpi)	
<b>Copy speed</b>	Black-and-white: up to 20 copies per minute (cpm) letter; color: up to 4 cpm letter; first black-and-white copy out : 19 seconds	
<b>Copy settings</b>	Contrast (lighter/darker), Quality (copy quality), reduce/enlarge 25 to 400%, 2-up, 4-up, copy collation, number of copies, paper size	
<b>Scanning</b>	Color scanning supported; resolution: up to 1200 by 1200 dpi optical or up to 19,200 by 19,200 dpi enhanced resolution	
Walkup initiated scanning	Via front control panel with Scan-to button (preconfiguration via software required)	
Remote initiated scanning	Via HP Director, TWAIN-compliant or WIA-compliant software, HP Image Zone Software	
File formats	BMP, FPX, GIF, JPG (JPEG format, standard and progressive), JPG (EXIF 2.1 and 2.2), PCX, PNG, TIFF, PDF, TXT, RTF, HTML	
Maximum size	Flatbed: 8.5 by 11.7 in (216 by 297 mm); ADF: 8.5 by 15 in (216 by 381 mm)	
<b>Faxing</b>	Not available	Super G3 V.34 fax modem (up to 33 kbps) and 2 RJ-11 ports; Fax-send software for PC and Mac over both USB and network connectivity included with Typical/full install <sup>9</sup>
Speed <sup>10</sup>	Not available	3 seconds per page (Slerexe page, standard resolution)
Features	Not available	Up to 300 by 300 dpi, forwarding, quick dialing (120 locations), 4 MB fax memory (up to 250 pages), polling (receive only), delayed sending, distinctive ring detection, auto reduction, auto redial, phone TAM interface, telephone mode, junk barrier
<b>Photo memory card support<sup>11</sup></b>	Not available	Compact Flash <sup>®</sup> Type I and Type II, xD-Picture card <sup>™</sup> , Secure Digital, Memory Stick <sup>®</sup> , Memory Stick Pro <sup>®</sup> , SmartMedia, MultiMedia Card
<b>Processor</b>	264 MHz	
<b>Device memory</b>	96 MB RAM (upgradeable to 224 MB with one industry standard 100-pin SDRAM DIMM slot) with Memory Enhancement technology (MEI)	
<b>Duty cycle</b>	Up to 30,000 pages per month	
<b>Paper<sup>12</sup></b>		
Input capacity	125-sheet multipurpose tray (up to 10 envelopes, 50 transparencies); 50-sheet ADF	125-sheet multipurpose tray (up to 10 envelopes, 50 transparencies), 250-sheet paper tray; 50-sheet ADF
Output capacity	125-sheet face down bin, rear output door for specialty paper	
Sizes	Multipurpose tray: 4.1 by 5.8 to 8.5 by 14 in (105 by 148 to 216 by 356 mm); letter, executive, legal, envelopes (No. 10, Monarch); 250-sheet paper tray: 5.8 by 8.3 to 8.5 by 14 in (148 by 210 to 216 by 356 mm); letter, executive, 8.5 by 13 inches, legal; ADF: 5 by 5 to 8.5 by 14 in (127 by 127 to 216 by 356 mm); letter, legal, executive	
Weights	Multipurpose tray: 16 to 47 lb (60 to 177 g/m <sup>2</sup> ), up to 70 lb (220 g/m <sup>2</sup> ) for HP laser photo papers and HP Laser glossy papers only; 250-sheet paper tray: 16 to 28 lb (60 to 105 g/m <sup>2</sup> ); ADF: 16 to 24 lb (60 to 90 g/m <sup>2</sup> )	
Types	Multipurpose tray: Paper <sup>12</sup> (plain, letterhead, prepunched, bond, color, rough, preprinted, recycled) HP Color Laser Glossy Photo Paper, HP Color Laser Glossy Brochure Paper, HP Color Laser Matte Photo Paper, HP Color Laser Soft Gloss Presentation Paper, HP Color LaserJet transparencies, HP Laser Tough Paper, labels, envelopes, and card stock; 250 sheet paper tray 2: Paper <sup>12</sup> (plain, letterhead, prepunched, bond, color, rough, preprinted, recycled); ADF: paper (plain, bond, recycled), HP transparencies, envelopes, labels, postcards, document carrier	
<b>Connectivity</b>	Hi-Speed USB 2.0 port, built-in HP Jetdirect Fast Ethernet wired networking	
Printer language and fonts	HP PCL 6, HP postscript level 3 emulation; Postscript Printer Description (PPD); 80 TrueType internal scalable fonts for both HP PCL 6 and HP postscript emulation	
Operating systems	Microsoft <sup>®</sup> Windows <sup>®</sup> 2000, XP (Typical/full PC install); 98 SE, Me (scan and print drivers only); NT <sup>®</sup> 4.0 (print driver only); Mac OS 9.2.2, 10.2.8, 10.3.x (full Mac install) Latest supported operating systems and print drivers available at <a href="http://www.hp.com/support/cj2800">www.hp.com/support/cj2800</a>	
Network protocols	TCP/IP, Direct Mode IP, LPD; Configuration and management protocols: SLP, IGMP, BOOTP/DHCP, WINS, SNMP v1 and v2c, and HTTP	
<b>Software included</b>	HP Toolbox, HP LaserJet scan, TWAIN 1.9 or WIA scanner drivers, HP LaserJet fax, installer/uninstaller, HP Director, HP Image Zone, HP Document Viewer, HP All-in-One Setup Assistant (Mac); Readiris PRO Text Recognition software (not installed with device software, separate installation required)	
<b>Dimensions (w by d by h)</b>	19.6 by 20.9 by 20.6 in (497 by 532 by 523 mm)	19.6 by 20.9 by 22.4 in (497 by 532 by 573 mm)
<b>Weight</b>	Device: 69.6 lb (31.6 kg); As packaged approximately 89lb (36.8 kg)	Device: 75.3 lb (34.2 kg); As packaged approximately 95lb (40.5 kg)
<b>What's in the box</b>	HP Color LaserJet 2800 AIO series, HP imaging drum, HP Color LaserJet 5,000-page <sup>13</sup> Black Print Cartridge, power cord, Getting Started Guide, support flyer, software CDs, ADF	
Also includes	HP Color LaserJet 2,000-page <sup>13</sup> Cyan, Magenta, and Yellow Print Cartridges	HP Color LaserJet 4,000-page <sup>13</sup> Cyan, Magenta, and Yellow Print Cartridges, Super G3 V.34 fax modem, 250-sheet paper tray, photo memory card slots

## Ordering information

<b>Product</b>		
HP Color LaserJet 2820 AIO		Q3948A
HP Color LaserJet 2840 AIO		Q3950A
<b>Paper handling</b>		
250-sheet paper input tray (accessory for 2820 only)		Q3952A
<b>HP Color LaserJet 2800 Printing Supplies with Smart Printing Technology</b>		
HP Color LaserJet Black Print Cartridge (5K pages) <sup>13</sup>		Q3960A
HP Color LaserJet Cyan Print Cartridge (4K pages) <sup>13</sup>		Q3961A
HP Color LaserJet Yellow Print Cartridge (4K pages) <sup>13</sup>		Q3962A
HP Color LaserJet Magenta Print Cartridge (4K pages) <sup>13</sup>		Q3963A
HP Color LaserJet Cyan Print Cartridge (2K pages) <sup>13</sup>		Q3971A
HP Color LaserJet Yellow Print Cartridge (2K pages) <sup>13</sup>		Q3972A
HP Color LaserJet Magenta Print Cartridge (2K pages) <sup>13</sup>		Q3973A
HP Color LaserJet Imaging Drum (20K pages black, 5K pages color, average 10-12K pages) <sup>13</sup>		Q3964A
<b>Cables</b>		
HP network cable 7 feet		C7535A
HP network cable 14 feet		C7536A
USB cable (a-b) 2 meter		C6518A
<b>Memory</b>		
HP LaserJet SDRAM DIMM 128 MB		C9121A
HP LaserJet SDRAM DIMM 64 MB		Q1887A
HP LaserJet SDRAM DIMM 32 MB		C7845A
<b>HP Care Packs</b>		
Install one personal or workgroup device		H4513A/E
HP Care Pack, network installation		H3110E
HP Care Pack 3-year, next business day, onsite		UA337E
<b>Paper</b>		
<a href="http://www.hp.com/go/everydaypaper">www.hp.com/go/everydaypaper</a>		
HP Color Laser Glossy Photo Paper, letter, 58 lb bond (220 g/m <sup>2</sup> ), 100 sheets		Q6607A
HP Color Laser Glossy Brochure Paper, letter, 44 lb bond (160 g/m <sup>2</sup> ), 150 sheets		Q6610A
HP Color Laser Glossy Photo Paper, letter, 32 lb bond (120 g/m <sup>2</sup> ), 200 sheets		Q6545A
HP Color Laser Soft Gloss Presentation Paper, letter, 32 lb bond (120 g/m <sup>2</sup> ), 200 sheets		Q6541A

<b>Environmental ranges</b>	
Operating temperature	59 to 90.5 degrees F (15 to 32.5 degrees C)
Storage temperature	-4 to 104 degrees F (-20 to 40 degrees C)
Relative humidity	20 to 70 percent RH, non-condensing
Max operating altitude	10,000 ft (3048 m)
<b>Acoustic power emissions</b>	Active: 6.6 B(A); Standby: not audible
<b>Power specifications<sup>14</sup></b>	Energy Star <sup>®</sup> compliant
Input requirements	110 to 127 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz); 220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz)
Consumption	Active: 398 watts; Ready: 26 watts; Sleep: 20 watts; Off: 0 watts
<b>Certifications</b>	
Safety	IEC 60950-1 compliant; safety UL listed; EU LVD & EN60950-1 compliant; countries: Canada (cUL-CAN/CSA C22.2 No. 60950-1-03), Mexico (NOM NYCE-NOM 019 SCFI), USA (UL-UL 60950-1; FDA-21 CFR Chapter 1 Subchapter J for lasers); class 1 laser/LED product
EMC	CISPR 22: 1997/EN 55022: 1998 Class B; EN 61000-3-2:2000; EN 61000-3-3: 1995/VA1; EN 55024:1998/VA1; FCC Title 47 CFR, Part 15 Class B; ICES-003, Issue 4; GB9254-1998; EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC, and carries the CE-Marking accordingly (in addition, Fax version meets R&TTE Directive 1999/5/EC (Annex II)), list of countries: Canada (Industry Canada ICES 003-CISPR 22), USA (FCC Title 47 CFR Part 15 Class B); CISPR 22 Class B
Telecom (HP Color LaserJet 2840 AIO)	TBR-21:1998; EG 201 121: 1998, FCC Part 68, Industry Canada CS03, NOM-151-SCTI-1999 (Mexico)
<b>Warranty</b>	One-year limited hardware onsite HP warranty, telephone and Web support (varies according to region)
<b>HP SureSupply<sup>™</sup> enabled</b>	To learn more about HP SureSupply <sup>™</sup> , please visit <a href="http://www.hp.com/go/SureSupply">www.hp.com/go/SureSupply</a>

<sup>9</sup> Exact speed varies depending on the system configuration, software application, driver, and document complexity.  
<sup>9</sup> Fax send software for supported Windows XP and 2000 based systems and Mac OS 9.2.2, 10.2.8, 10.3.x based systems: Receive Fax to PC capability via USB connection only available for Windows 2000 and XP.

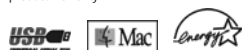
<sup>10</sup> Based on standard ITU-T test image #1 at standard resolution. More complicated pages or higher resolution will take longer and use more memory.

<sup>11</sup> Memory card support for storage capacities up to 2 GB; Direct Photo Printing capability for .jpg image files.

<sup>12</sup> Papers featuring coatings and finishes designed specifically for use in ink printing devices are not compatible.

<sup>13</sup> All print cartridge page yields are based at five percent page coverage.

<sup>14</sup> Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty.



Energy Star and the Energy Star logo are U.S. registered marks of the United States Environmental Protection Agency. HP and the invent signature are trademarks of the Hewlett-Packard Company. Microsoft, Windows, and Windows XP are U.S. registered trademarks of Microsoft Corporation.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

For more information visit our website at [www.hp.com](http://www.hp.com)

5983-0800ENUC, 05/2005, Rev. 1.2

