

# HP Color LaserJet 4650 series printer

4650 • 4650n • 4650dn • 4650dtn • 4650hdn



Accelerate your business with proven color performance for workgroups in a simple, efficient design.

## Proven performer

- **Experience improved productivity with fast color laser printing.** A quick power cycle with fast calibration lets you start printing color documents right away, at up to 22 ppm with optimal print quality. The printer quickly processes large files and with a first-page-out speed of 15 seconds, your documents begin printing in no time.
- **Print images and graphics effortlessly.** With a high-powered 533 MHz processor and up to 544 MB of memory, this printer gracefully handles even the most complex documents.
- **Print without worry.** The printer software has a familiar look-and-feel and ensures that legacy print jobs still print accurately. With the quality and reliability of HP Color LaserJet printing, your documents print successfully, every time. And the printer is backed by HP's first-class service and support, with a one-year, next-day, on-site, limited hardware warranty.

## Easily fits your business

- **Benefit from a printer that's flexible and easy to use.** The printer's display gives you complete, timely information about the printer and print jobs. HP Smart printing supplies<sup>1</sup> enable status monitoring, e-mail alert messages, Internet-enabled supplies ordering, and convenient remote troubleshooting. With one access point to supplies and only four cartridges to order and replace, interaction with the printer is simple and infrequent.
- **Minimize user intervention.** Reduce time spent replenishing paper with an input capacity of up to 1,600 sheets with the 100-sheet multipurpose tray, the 500-sheet input tray (tray 2), and the two by 500-sheet paper feeder (trays 3 and 4, standard with the HP Color LaserJet 4650hdn printer).

- **Automatically produce professional two-sided documents.** Routinely printing documents on both sides virtually doubles the printer's input capacity and makes paperwork more manageable (only available with HP Color LaserJet 4650dn, 4650dtn, and 4650hdn printers).
- **Expand your connectivity options as your needs grow.** Share high performance with the HP Jetdirect 620n Fast Ethernet print server (standard on all models except the HP Color LaserJet 4650 printer), or add wireless printing with the optional HP Jetdirect 680n wireless print server or HP bt1300 Bluetooth® Wireless Printer Adapter.<sup>2</sup>

## Professional print quality

- **Increase the effectiveness of your business communications.** Achieve professional color output with HP's ImageREt 3600, a printing technology system offering superior image enhancements. Combined with advanced toner formulas, this technology yields smooth color transitions, crisp text, and sharp images for all of your office documents and professional marketing materials. The system works together to make automated adjustments for color consistency, delivering high-quality prints you can depend on.
- **Get optimal results when printing in color.** To produce sleek, professional documents and images, use HP Glossy Photo & Imaging Laser Paper and select HP High Gloss (Images) from the print driver to enable the printer's image mode. The image mode is system-optimized for HP Glossy Photo & Imaging Laser Paper.

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

<sup>1</sup> Using genuine HP supplies ensures availability of all HP printing features.

<sup>2</sup> For more information and a list of supported phones and other devices, go to [www.hp.com/support/bluetoothprinteradapter](http://www.hp.com/support/bluetoothprinteradapter).



# HP Color LaserJet 4650 series printer

HP Color LaserJet 4650hdn printer shown

- 1 Control panel simultaneously displays up to four lines of text and animated graphics
- 2 Front door allows convenient access to the four HP print cartridges
- 3 Automatic two-sided printing enables fast, efficient duplexing
- 4 100-sheet multipurpose tray handles heavy custom media up to 53 lb bond (200 g/m<sup>2</sup>)
- 5 500-sheet input tray allows for media flexibility
- 6 Two by 500-sheet paper feeder (1,000-sheet pedestal) delivers high-volume printing
- 7 20 GB HP high-performance EIO hard disk
- 8 HP Jetdirect 620n Fast Ethernet internal print server
- 9 288 MB total memory and a powerful 533 MHz processor perform complex tasks quickly
- 10 Foreign interface for third-party paper-handling solutions
- 11 Bidirectional parallel port and USB 1.1 port



Front view



Right side view

## Series at a glance



4650

- 100-sheet multipurpose tray
- 500-sheet input tray
- 160 MB RAM
- 533 MHz RISC processor
- Three open EIO slots



4650n

- Base model plus:
- HP Jetdirect 620n Fast Ethernet print server in one EIO slot



4650dn

- Base model plus:
- HP Jetdirect 620n Fast Ethernet print server in one EIO slot
  - Automatic two-sided printing



4650dtn

- Base model plus:
- HP Jetdirect 620n Fast Ethernet print server in one EIO slot
  - Automatic two-sided printing
  - 500-sheet input tray for 1,100-sheet capacity
  - Additional 128 MB RAM for a total of 288 MB RAM



4650hdn

- Base model plus:
- HP Jetdirect 620n Fast Ethernet print server in one EIO slot
  - Automatic two-sided printing
  - Two by 500-sheet paper feeder (1,000-sheet pedestal) for 1,600-sheet capacity
  - Additional 128 MB RAM for a total of 288 MB RAM
  - 20 GB HP high-performance hard disk in one EIO slot

# Powerful, professional color laser printing is within reach of your business.

## Fast, exceptional color output

Color is proving itself as a business tool with a clear return on investment. Studies show that color improves comprehension, increases readership, accelerates learning, and reflects a professional image. More than ever before, businesses are discovering a need to produce high-quality color documents.

With the HP Color LaserJet 4650 series printer, easily create high-impact presentations and proposals, as well as professional marketing materials to give your business the competitive edge. Print frequently updated materials in-house and on-demand, reducing outsourcing expenses, storage costs, and the waste of obsolete materials.

With HP's in-line color printing, you can print professional color documents as quickly as black-only documents—up to 22 ppm—without compromising print quality. To optimize performance, the printer features an inductive heat fuser that virtually eliminates warm-up time and enables a first-page-out speed of 15 seconds.

Experience dramatic improvements in print quality with HP's ImageREt 3600, a proprietary printing solution implemented for the first time with the HP Color LaserJet 4650 series printer. Most high-resolution technologies cause degradation in printer performance due to increased data transmission, but HP's innovative technologies achieve equivalent or better print quality without such tradeoffs.

The following printing system technologies work together to automatically deliver the best possible output for all of your documents:

- The high resolution laser imaging system adjusts laser dot size and position and precisely controls and combines colors within a single dot to create near-photographic quality images.
- The print mechanism's design enables extremely accurate alignment between critical components, which results in excellent uniformity and color plane registration.
- HP's industry-leading image enhancements deliver excellent tones, sharpness, and clarity.
- Special printing modes provide excellent gloss matching, so that the shininess of the printed image matches the gloss of the media. The printer's image mode is optimized for image printing with HP Glossy Photo & Imaging Laser Paper.

<sup>3</sup> Using genuine HP supplies ensures availability of all HP printing features.

- Intelligent color controls produce color that is the same—page after page—over printer life.
- HP Smart printing supplies<sup>3</sup> include chemically-grown toner with small particles that are more uniform and spherical than traditional manufactured toners, resulting in fine detail, bright saturated colors, and a good ability to match the screen (sRGB color).

## Easy, flexible printing

Designed with medium to large office workgroups in mind, the printer is simple to install, use, and maintain.

- Gain quick access to the four easy-to-replace print cartridges through a single front door. The simple paper path design results in fewer and easier interactions with the printer.
- Minimize printer downtime when you use genuine HP Smart printing supplies<sup>3</sup> that enable status monitoring, proactive alert messages, Internet-enabled supplies ordering, and convenient remote troubleshooting.
- Get complete, timely information about the printer and print jobs. Designed for quick and easy troubleshooting and configuration, the control panel displays up to four lines of text and animated graphics simultaneously.
- Access all printer information from the HP Toolbox software, including documentation, self-help and troubleshooting tips, printer status, and links to HP Instant Support and the HP Embedded Web Server, which lets you manage printing functions from your computer (for networked printers).
- Enjoy high-speed network printing with simple network installation, driver distribution, and remote management through HP Web Jetadmin.

## Service and support from HP

HP offers a variety of support options to assist you with setup and maintenance. Start with the standard one-year limited hardware warranty that includes phone support backed by award-winning HP Customer Care. To further ensure trouble-free operation and to maximize the capabilities of your printer, you can upgrade your service and support options to include network installation and extended printer maintenance.

# HP Color LaserJet 4650 series printer

| Technical specifications                       | HP Color LaserJet 4650   | HP Color LaserJet 4650n   | HP Color LaserJet 4650dn   | HP Color LaserJet 4650dtn  | HP Color LaserJet 4650hdn   |
|--|--|---|--|--|---|
| <b>Print speed<sup>4</sup></b>                 | Up to 22 ppm   |   |  |  |   |
| <b>First page out</b>                          | 15 seconds   |   |  |  |   |
| <b>Resolution</b>                              | 600 by 600 dpi with HP ImageREt 3600   |   |  |  |   |
| <b>Processor</b>                               | 533 MHz RISC   |   |  |  |   |
| <b>Memory</b>                                  | 160 MB standard; 544 MB maximum; one available DIMM slot   |   |  | 288 MB standard; 544 MB maximum; one available DIMM slot   |   |
| <b>Flash memory</b>                            | Two available slots for font cards or third-party solutions <sup>5</sup>   |   |  |  |   |
| <b>Duty cycle</b>                              | Up to 85,000 pages per month   |   |  |  |   |
| <b>Media</b>                                   | Media handling   |   |  |  |   |
|  | 100-sheet multipurpose tray, 500-sheet tray 2  |   |  | 100-sheet multipurpose tray, 500-sheet tray 2, 500-sheet tray 3  | 100-sheet multipurpose tray, 500-sheet tray 2, two by 500-sheet paper feeder (pedestal, trays 3 and 4)  |
| <b>Output capacity</b>                         | 250-sheet face-down output bin   |   |  |  |   |
| <b>Duplex printing</b>                         | Manual two-sided printing  |   | Automatic two-sided printing   |  |   |
| <b>Sizes</b>                                   | Multipurpose tray: 3 by 5 in (76.2 by 127 mm) to 8.5 by 14 in (216 by 356 mm); letter, legal, executive, A4, A5, B5 (JIS), executive (JIS), envelopes (No. 10, Monarch, C5, DL, B5) Trays 2, 3, and 4: 7.2 by 8.2 in (182 by 210 mm) to 8.5 by 14 in (216 by 356 mm); letter, legal, executive, A4, A5, B5 (JIS)   |   |  |  |   |
| <b>Weights</b>                                 | Multipurpose tray: 16 to 53 lb bond (60 to 200 g/m <sup>2</sup> ); Trays 2, 3, and 4: 16 to 28 lb bond (60 to 105 g/m <sup>2</sup> )   |   |  |  |   |
| <b>Types</b>                                   | Multipurpose tray: paper (plain, glossy, colored, preprinted, letterhead, recycled, HP Tough and HP High Gloss Laser), envelopes, transparencies, labels, cardstock Trays 2, 3, and 4: paper (plain, glossy, recycled), transparencies   |   |  |  |   |
| <b>Connectivity</b>                            | Interfaces   |   |  |  |   |
|  | Bidirectional IEEE-1284-C parallel port, USB 1.1 port  |   | Bidirectional IEEE-1284-C parallel port, USB 1.1 port, HP Jetdirect 620n Fast Ethernet internal print server   |  |   |
| <b>EIO slots available</b>                     | Three  |   | Two  |  | One   |
| <b>Languages</b>                               | HP PCL 6, HP PCL 5c (web download), HP postscript level 3 emulation, native PDF printing, optional mobile phone and PDA printing via the HP bt1300 adapter   |   |  |  |   |
| <b>Fonts</b>                                   | 80 internal TrueType™ fonts scalable in HP PCL and HP postscript level 3 emulation; additional font solutions available via DIMMs  |   |  |  |   |
| <b>Client operating systems</b>                | Microsoft® Windows 98, 98 SE, NT 4.0, Me, 2000, XP 32-Bit, <sup>6</sup> Server 2003 32-Bit, <sup>6</sup> Mac OS 9.0 and later, OS X.0 and later; UNIX®; Linux; HP OpenVMS; OS/2  |   |  |  |   |
| <b>Network operating systems<sup>7</sup></b>   | Via HP Jetdirect print servers: Microsoft Windows 98, Me, NT 4.0, 2000, XP, XP 64-Bit, 2003 Server; Apple Mac OS 8.6 and later; Novell NetWare 3.2, 4.2, 5.x, 6; Red Hat Linux 6.x and later; SuSE Linux 6.x and later; HP-UX 10.20, 11.x; Solaris 2.5x, 2.6, 7, 8 (SPARC systems only); IBM AIX 3.2.5 and later (requires software from vendor); MPE-iX |   |  |  |   |
| <b>Network protocols supported<sup>7</sup></b> | Via HP Jetdirect print servers: TCP/IP, IPX/SPX, AppleTalk, Apple Rendezvous compatible, DLC/LLC, Auto-IP, IP Direct Mode, NDS, Bindery, NCP, NDPS, iPrint, Telnet, SLP, IGMP, BOOTP/DHCP, WINS, SNMP v 1 and v 2c, HTTP; may require software from the NOS vendor or third-party vendor: LPD, FTP Printing, IPP   |   |  |  |   |
| <b>Dimensions (h by d by w)</b>                | 22.3 by 20 by 18.9 in (567 by 508 by 481 mm)   |   |  | 27.3 by 20 by 18.9 in (694 by 508 by 481 mm)   | 40.7 by 25.4 by 18.9 in (1,034 by 646 by 481 mm)  |
| <b>Weight</b>                                  | 81 lb (36.8 kg)  |   |  | 97 lb (44 kg)  | 145 lb (65.8 kg)  |
| <b>What's in the box</b>                       | 4650 printer, 100-sheet multipurpose tray, 500-sheet tray, power cable, IEEE 1284-C parallel cable, CD-ROM (includes User Guide and printer software), Setup Poster, Getting Started Guide, and HP cyan, yellow, magenta, and black print cartridges   | 4650n printer, 100-sheet multipurpose tray, 500-sheet tray, power cable, CD-ROM (includes User Guide and printer software), Setup Poster, Getting Started Guide, HP Jetdirect 620n print server, and HP cyan, yellow, magenta, and black print cartridges | 4650dn printer, 100-sheet multipurpose tray, 500-sheet tray, power cable, CD-ROM (includes User Guide and printer software), Setup Poster, Getting Started Guide, HP Jetdirect 620n print server, and HP cyan, yellow, magenta, and black print cartridges | 4650dtn printer, 100-sheet multipurpose tray, two 500-sheet trays, power cable, CD-ROM (includes User Guide and printer software), Setup Poster, Getting Started Guide, HP Jetdirect 620n print server, and HP cyan, yellow, magenta, and black print cartridges | 4650hdn printer, 100-sheet multipurpose tray, 500-sheet tray, two by 500-sheet paper feeder, power cable, CD-ROM (includes User Guide and printer software), Setup Poster, Getting Started Guide, HP Jetdirect 620n print server, HP high-performance EIO hard disk, and HP cyan, yellow, magenta, and black print cartridges |

<sup>4</sup> Exact speed varies depending on the system configuration, software application, driver, and document complexity.

<sup>5</sup> For third-party solutions, go to: [www.hp.com/go/gsc](http://www.hp.com/go/gsc).

<sup>6</sup> Driver support is provided for 64-bit OS, but no installer or toolbox support.

<sup>7</sup> Not all protocol and operating system combinations are supported. For more information, go to: [www.hp.com/support/net\\_printing](http://www.hp.com/support/net_printing).

## Environmental ranges

|   |  |
|---|--|
| <b>Operating temperature:</b>   | Operating: 50 to 86 degrees F (10 to 30 degrees C)<br>Recommended: 62.6 to 77 degrees F (17 to 25 degrees C)   |
| <b>Relative humidity:</b>   | Operating: 10 to 80 percent relative humidity<br>Recommended: 30 to 70 percent relative humidity   |
| <b>Altitude:</b>  | 0 to 8530 ft (0 to 2600 m)   |
| <b>Acoustics:</b>   | Power: active: 6.5 B(A); standby: 5 B(A)<br>Pressure (bystander): active: 51 dB(A), standby: 34 dB(A)  |
| <b>Power requirements:</b>  | Input: 110 to 127 V (±10 percent), 50/60 Hz (±2 Hz)<br>voltage: 220 to 240 V (±10 percent), 50/60 Hz (±2 Hz)   |
| <b>Power consumption (Energy-saver sleep mode, ENERGY STAR® compliant):</b> | Active: 560 watts<br>Standby: 38 watts (4650hdn: 40 watts)<br>PowerSave: 26 watts (4650hdn: 31 watts)<br>Off: 0.3 watts  |
| <b>Power certifications:</b>  | EMC: FCC Title 47 CFR, Part 15 Class B/ICES-003, Issue 4<br>Canada (cUL-CAN/CSA C22.2 No.60950-00), USA (UL-UL 60950; FDA-21 CFR Chapter 1 Subchapter J for lasers); Class 1 Laser/LED Product |
| <b>Warranty:</b>  | One-year, next day, on-site, limited hardware warranty   |



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## Ordering information

| Product   | Number |
|---|--------|
| HP Color LaserJet 4650 printer  | Q3668A |
| HP Color LaserJet 4650n printer   | Q3669A |
| HP Color LaserJet 4650dn printer  | Q3670A |
| HP Color LaserJet 4650dtn printer   | Q3671A |
| HP Color LaserJet 4650hdn printer   | Q3672A |
| <b>Connectivity</b>   |        |
| HP Jetdirect 620n Fast Ethernet internal print server   | J7934A |
| HP Jetdirect 680n wireless Fast Ethernet internal print server  | J6058A |
| HP bt1300 Bluetooth® Wireless Printer Adapter   | J6072A |
| <b>Paper handling</b>   |        |
| 500-sheet input tray  | Q3673A |
| Two by 500-sheet paper feeder (1,000-sheet pedestal)  | Q3674A |
| Printer cabinet   | C9667A |
| <b>HP Smart printing supplies</b>   |        |
| HP LaserJet black print cartridge (9,000 pages at 5% coverage)  | C9720A |
| HP LaserJet cyan print cartridge (8,000 pages at 5% coverage)   | C9721A |
| HP LaserJet yellow print cartridge (8,000 pages at 5% coverage)   | C9722A |
| HP LaserJet magenta print cartridge (8,000 pages at 5% coverage)  | C9723A |
| <b>Maintenance kits</b>   |        |
| Image transfer kit  | Q3675A |
| Image fuser kit, 110-volt   | Q3676A |
| Image fuser kit, 220-volt   | Q3677A |
| <b>Memory and storage</b>   |        |
| 20 GB HP high-performance EIO hard disk   | J6073A |
| 128 MB DDR SDRAM  | Q2630A |
| 256 MB DDR SDRAM  | Q2631A |
| 512 MB DDR SDRAM  | Q2632A |
| <b>Cables</b>   |        |
| Appletalk interface cable, 1 meter  | 92215N |
| Macintosh printer cable, 2 meter  | 92215S |
| Parallel cable, 3-meter IEEE 1284 (a to c)  | C2946A |
| Parallel cable, 10-meter IEEE 1284 (a to c)   | C2947A |
| <b>HP Care Packs</b>  |        |
| HP Care Pack, network installation  | H2872E |
| HP Care Pack, 3-year, next business day, onsite   | H3113E |
| HP Care Pack, 3-year, same day, onsite  | H3118E |
| <b>For media, go to: <a href="http://www.hp.com/go/everydaypapers">www.hp.com/go/everydaypapers</a> or in the U.S., call 1-800-477-5010</b> |        |
| <b>For third-party solutions, go to: <a href="http://www.hp.com/go/gsc">www.hp.com/go/gsc</a></b>   |        |

For more information visit our website at [www.hp.com](http://www.hp.com)  
5982-3557ENUC, 03/2004

