

HP Color LaserJet 4650hdn Printer (Q3672A) - specifications



Speed /monthly volume	
Print speed, black (best quality mode)	Up to 22 ppm
Print speed, color (pages per minute)	Up to 22 ppm
First page out, black	15 seconds
First page out, color	15 seconds
Processor speed	533 MHz
Recommended monthly volume, maximum	Up to 85,000 pages
Print quality / technology	
Print technology	Laser
Print quality, black	Up to 600 x 600 dpi
Print quality, color	Up to 600 x 600 dpi
Resolution technology	HP ImageREt 3600
Paper handling / media	
Paper trays, std.	4
Paper trays, max.	4
Input capacity, std.	1,600 sheets
Input capacity, max.	1,600 sheets
Standard envelope capacity	20 envelopes
Envelope feeder	No
Output capacity, std.	250 sheets
Output capacity, max.	250 sheets

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Duplex printing (printing on both sides of paper)	Automatic (standard)
Media sizes, std.	Letter, legal, executive, A4, A5, B5 (JIS), executive (JIS), envelopes (No. 10, Monarch, C5, DL, B5)
Media sizes, custom	Multipurpose Tray: 3 x 5 to 8.5 x 14 in; Tray 2, 3, 4: 7.2 x 8.2 to 8.5 x 14 in
Media types	Multipurpose tray: paper (plain, glossy, colored, preprinted, letterhead, recycled, HP Tough and High Gloss Laser), envelopes, transparencies, labels, cardstock; Tray 2, 3, 4: paper (plain, glossy, recycled), transparencies
Media weight, recommended	Multipurpose Tray 1: 16 to 53 lb bond; Tray 2, 3, 4: 16 to 28 lb bond
Memory / print languages	
Memory, std.	288 MB
Memory, max.	544 MB
Memory slots	2 industry-standard 200-pin dual-data-rate (DDR) SDRAM small-outline DIMM slots, 3 flash memory card slots
Hard disk	Standard, 20 GB HP high-performance
Print languages, std.	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
Typefaces	80 internal TrueType fonts scalable in HP PCL and HP postscript level 3 emulation; additional font solutions available via DIMMs
Connectivity	
Connectivity, std.	Bidirectional IEEE-1284-C parallel port, USB 1.1 port, HP Jetdirect 620n Fast Ethernet internal print server, hard disk drive in EIO slot, 1 open EIO slot
Connectivity, opt.	HP Jetdirect EIO print servers for Ethernet (10Base-T, 10Base2), 802.11b wireless Ethernet Token Ring, LocalTalk, serial and USB, Bluetooth wireless
Dimensions / weight / warranty	
Dimensions (w x d x h)	18.9 x 25.4 x 40.7 in
Weight, U.S.	145 lb
Warranty, std.	One-year, next day, on-site limited hardware warranty

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What's in the box	
What's in the box	HP Color LaserJet 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 (1 each)
Software included	HP PCL 5c (provided on Web only), HP PCL 6, PostScript 3 emulation, printing system installation software on CD-ROM

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HP Color LaserJet 4650 Printer (Q3668A) - specifications



Speed/monthly volume	
Print speed, black (best quality mode)	Up to 22 ppm
Print speed, color (pages per minute)	Up to 22 ppm
First page out, black	15 seconds
First page out, color	15 seconds
Processor speed	533 MHz
Recommended monthly volume, maximum	Up to 85,000 pages
Print quality / technology	
Print technology	Laser
Print quality, black	Up to 600 x 600 dpi
Print quality, color	Up to 600 x 600 dpi
Resolution technology	HP ImageREt 3600
Paper handling / media	
Paper trays, std.	2
Paper trays, max.	4
Input capacity, std.	600 sheets
Input capacity, max.	1,600 sheets
Standard envelope capacity	20 envelopes
Envelope feeder	No
Output capacity, std.	250 sheets
Output capacity, max.	250 sheets

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Duplex printing (printing on both sides of paper)	Manual two-sided printing
Media sizes, std.	Letter, legal, executive, A4, A5, B5 (JIS), executive (JIS), envelopes (No. 10, Monarch, C5, DL, B5)
Media sizes, custom	Multipurpose Tray: 3 x 5 to 8.5 x 14 in; Tray 2, optional trays 3 and 4: 7.2 x 8.2 to 8.5 x 14 in
Media types	Multipurpose tray: paper (plain, glossy, colored, preprinted, letterhead, recycled, HP Tough and High Gloss Laser), envelopes, transparencies, labels, cardstock; Tray 2, 3, 4: paper (plain, glossy, recycled), transparencies
Media weight, recommended	Tray 1: 16 to 53 lb; Tray 2, 3, 4: 16 to 28 lb
Memory / print languages	
Memory, std.	160 MB
Memory, max.	544 MB
Memory slots	2 industry-standard 200-pin dual-data-rate (DDR) SDRAM small- outline DIMM slots, 3 flash memory card slots
Hard disk	Optional
Print languages, std.	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
Typefaces	80 internal TrueType fonts scalable in HP PCL and HP postscript level 3 emulation; additional font solutions available via DIMMs
Connectivity	
Connectivity, std.	IEEE 1284-C bidirectional parallel port, USB 1.1 port, 3 open EIO slots
Connectivity, opt.	HP Jetdirect EIO print servers for Ethernet (10Base-T, 10Base2), 802.11b wireless Ethernet Token Ring, LocalTalk, serial and USB, Bluetooth wireless
Dimensions / weight / warranty	
Dimensions (w x d x h)	18.9 x 20 x 22.3 in
Weight, U.S.	81 lb
Warranty, std.	One-year next-day on-site warranty
What's in the box	

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What's in the box	HP Color LaserJet 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 (1 each)
Software included	HP PCL 5c, HP PCL 6, PostScript 3 emulation, printing system installation software on CD-ROM; PCL 5c provided on Web only

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HP Color LaserJet 4650dn Printer (Q3670A) - specifications



Speed/monthly volume	
Print speed, black (best quality mode)	Up to 22 ppm
Print speed, color (pages per minute)	Up to 22 ppm
First page out, black	15 seconds
First page out, color	15 seconds
Processor speed	533 MHz
Recommended monthly volume, maximum	Up to 85,000 pages
Print quality / technology	
Print technology	Laser
Print quality, black	Up to 600 x 600 dpi
Print quality, color	Up to 600 x 600 dpi
Resolution technology	HP ImageREt 3600
Paper handling / media	
Paper trays, std.	2
Paper trays, max.	4
Input capacity, std.	600 sheets
Input capacity, max.	1,600 sheets
Standard envelope capacity	20 envelopes
Envelope feeder	No
Output capacity, std.	250 sheets
Output capacity, max.	250 sheets

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Duplex printing (printing on both sides of paper)	Automatic (standard)
Media sizes, std.	Letter, legal, executive, A4, A5, B5 (JIS), executive (JIS), envelopes (No. 10, Monarch, C5, DL, B5)
Media sizes, custom	Multipurpose Tray: 3 x 5 to 8.5 x 14 in; Tray 2, optional trays 3 and 4: 7.2 x 8.2 to 8.5 x 14 in
Media types	Multipurpose tray: paper (plain, glossy, colored, preprinted, letterhead, recycled, HP Tough and High Gloss Laser), envelopes, transparencies, labels, cardstock; Tray 2, 3, 4: paper (plain, glossy, recycled), transparencies
Media weight, recommended	Tray 1: 16 to 53 lb; Tray 2, 3, 4: 16 to 28 lb
Memory / print languages	
Memory, std.	160 MB
Memory, max.	544 MB
Memory slots	2 industry-standard 200-pin dual-data-rate (DDR) SDRAM small-outline DIMM slots, 3 flash memory card slots
Hard disk	Optional
Print languages, std.	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
Typefaces	80 internal TrueType fonts scalable in HP PCL and HP postscript level 3 emulation; additional font solutions available via DIMMs
Connectivity	
Connectivity, std.	Bidirectional IEEE-1284-C parallel port, USB 1.1 port, HP Jetdirect 620n Fast Ethernet internal print server, 2 open EIO slots
Connectivity, opt.	HP Jetdirect EIO print servers for Ethernet (10Base-T, 10Base2), 802.11b wireless Ethernet Token Ring, LocalTalk, serial and USB, Bluetooth wireless
Dimensions / weight / warranty	
Dimensions (w x d x h)	18.9 x 20 x 22.3 in
Weight, U.S.	81 lb
Warranty, std.	One-year next-day on-site warranty
What's in the box	

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What's in the box	HP Color LaserJet 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, duplex (automatic two-sided printing), and HP cyan, yellow, magenta, and black print cartridges (1 each)
Software included	HP PCL 5c, HP PCL 6, PostScript 3 emulation, printing system installation software on CD-ROM; PCL 5c provided on Web only

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HP LaserJet 1320 Printer (Q5927A) - specifications



Speed/monthly volume	
Print speed, black (best quality mode)	Up to 22 ppm
First page out, black	Less than 8.5 sec
Processor speed	133 MHz
Recommended monthly volume, maximum	10000 pages
Print quality / technology	
Print technology	Laser
Print quality, black	Up to 1200 x 1200 dpi
Resolution technology	HP ProRes 1200
Paper handling / media	
Paper trays, std.	1 (plus single-sheet input slot)
Paper trays, max.	1 (plus single-sheet input slot)
Input capacity, std.	Up to 250 sheets
Input capacity, max.	Up to 250 sheets
Standard envelope capacity	1 envelopes
Envelope feeder	No
Output capacity, std.	Up to 125 sheets
Output capacity, max.	Up to 125 sheets
Duplex printing (printing on both sides of paper)	Automatic (standard)
Paper Handling, Input (standard)	Single-sheet multipurpose input slot, 250-sheet input tray
Paper Handling, Input	250-sheet input tray

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(optional)	
Paper Handling, Output (standard)	125-sheet face down bin, rear output door for special media
Media sizes, std.	Letter, legal, executive, index cards, envelopes (No. 10, Monarch)
Media sizes, custom	Tray 1: 3 x 5 to 8.5 x 14 in; Tray 2, 3: 5.8 x 8.3 to 8.5 x 14 in
Media weight, recommended	Single-sheet input slot: 16 to 43 lb; Tray 2, 3: 16 to 28 lb
Media types	Paper (plain, recycled, light, heavy, bond, rough), heavy media, envelopes, transparencies, labels, cardstock
Memory / print languages	
Memory, std.	16 MB
Memory, max.	144 MB
Memory slots	One 100-pin DIMM
Hard disk	None
Print languages, std.	HP PCL 6, HP PCL 5e, Postscript Level 2 emulation with automatic language switching
Connectivity	
Connectivity, std.	USB 2.0 compatible port, IEEE 1284-B compliant parallel port
Connectivity, opt.	HP Jetdirect external print servers; HP wireless print servers; Bluetooth wireless printer adapter; HP Jetdirect 170x, 175x, 300x, 380x, 500x (for Fast Ethernet) Print Server; HP Jetdirect en3700 Fast Ethernet Print Server; HP Jetdirect ew2400 802.11g Print Server
Print drivers, std.	HP PCL 6, HP PCL 5e, Postscript Level 2 emulation
Dimensions / weight / warranty	
Dimensions (w x d x h)	13.78 x 13.98 x 10.03 in
Weight, U.S.	24.7 lb
Warranty, std.	One-year, return to HP authorized service center warranty
What's in the box	
What's in the box	HP LaserJet 1320 Printer, HP LaserJet print cartridge, Getting Started Guide, CD (includes software and User's Guide), power cord, 250-sheet input tray
Software included	HP printer software on CD-ROM includes HP installer/uninstaller, drivers (HP PCL 5e, HP PCL 6, Postscript Level 2 emulation), HP

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Toolbox for diagnostic status and configuration, HP Embedded Web Server, control panel simulator, help, documentation

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HP OfficeJet 6200 All-in-One series (Q5801A) - specifications



Functions	
Functions	Color printing, color faxing, color copying, color scanning
General specifications	
Scanner type	Flatbed scanner
Automatic document feeder	Standard, 20 sheets
Paper trays, std.	1
Paper trays, max.	1
Input capacity, std.	Up to 100 sheets
Input capacity, max.	Up to 100 sheets
Output capacity, std.	Up to 50 sheets
Output capacity, max.	Up to 50 sheets
Standard envelope capacity	Up to 10 envelopes
Media types	Paper (plain, inkjet, photo, banner), envelopes, transparencies, labels, cards, HP Premium Media, iron-on transfers, borderless media, panoramic media
Media sizes, std.	Letter, legal, executive, No. 10 envelopes, cards, borderless photo (4 x 6, 5 x 7, 8 x 10 in), borderless panoramic (4 x 10, 4 x 11, 4 x 12 in)
Media sizes, custom	3 x 5 to 8.5 x 24 in
Media weight, recommended	US letter: 16 to 24 lb, legal: 20 to 24 lb, envelopes: 20 to 24 lb, cards: up to 110 lb index maximum, photo paper: up to 130 lb index
Print cartridges	3 (1 each black, tri-color, optional photo)
Multitasking capability	Yes
Printer specifications	
Prints colors	Yes

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Print speed, black (draft quality mode)	Up to 23 ppm
Print speed, black (normal quality mode)	Up to 7.4 ppm
Print speed, black (best quality mode)	Up to 2 ppm
Print speed, color (draft mode)	Up to 18 ppm
Print speed, color (normal mode)	Up to 5 ppm
Print speed, color (best quality mode)	Up to 2 ppm
Recommended monthly volume, maximum	3,000 pages
Print quality, black	Up to 1200-rendered dpi when printing from a computer
Print quality, color	Up to 4800 x 1200-optimized dpi color when printing from a computer and 1200-input dpi
Print technology	HP Thermal Inkjet
Memory, std.	32 MB
Memory, max.	32 MB
Connectivity, std.	1 USB, 1 PictBridge
Connectivity, opt.	HP Jetdirect 175x External Print Server
Duplex printing (printing on both sides of paper)	None (not supported)
Print languages, std.	HP PCL 3
Fax specifications	
Color fax	Yes
Fax transmission speed (seconds per page)	3 sec per page
Fax memory	100 pages
Fax auto redial	Yes

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Fax PC interface	Yes, PC fax send only
Speed dials, maximum number	100
Fax forwarding	Yes (black only)
Fax auto-reduction	Yes
Junk fax barrier	Yes
Fax delayed sending	Yes (black only)
Polling	Yes
Distinctive ring detection	Yes
Copier specifications	
Copy speed, black (copies per minute)	Up to 15 cpm
Copy resolution, black	Up to 600 x 1200 dpi
Copy resolution, color	Up to 4800 x 1200-optimized dpi color copying on HP Premium Photo Paper and 1200-scan dpi
Copy settings	Stand-alone copying: actual size, fit to page, custom, photo sizes, fill entire page, many-on-a-page, poster, 2-on-1, margin shift
Maximum number of copies	100
Copy reduce/enlarge settings	25 to 400%
Scanner specifications	
Scan resolution, enhanced	Up to 19200-enhanced dpi (maximum dpi is limited by available computer memory, disk space, and other system factors)
Scan resolution, hardware	1200 x 2400 dpi
Maximum scan size	8.5 x 11.7 in
Bit depth	48 bit
Levels of grayscale	256
Connectivity	
Connectivity, std.	1 USB, 1 PictBridge
Connectivity, opt.	HP Jetdirect 175x External Print Server

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System requirements, minimum	For all systems: CD-ROM drive; available USB port and USB cable for direct connection; SVGA 800 x 600 monitor with 16-bit color; and Adobe Acrobat 5 or higher recommended; full-color scanning requires additional 50 MB hard disk space; Internet access recommended; for PC systems: any Intel Pentium II or Celeron processor (Pentium III or higher recommended); Microsoft Windows 98, 98 SE, Me, 2000 Professional or XP (does not support Windows 3.1, 95, NT 4.0, or DOS); 128 MB RAM for XP, 2000 Professional, Me, 98 SE, 98 (256 MB or higher recommended for all operating systems); 795 MB available hard disk space for full software installation (355 MB for basic software installation without HP Image Zone software); Microsoft Internet Explorer 5.01 or higher; for Mac systems: G3 processor (G4 or higher recommended); Mac OS X v 10.1.5, 10.2.3 and later, 10.3.x; Mac OS 9.1 and later (does not support Mac OS 9.0 and earlier or OS X v 10.2, 10.2.1, 10.2.2); 128 MB RAM (256 MB or higher recommended); 400 MB available hard disk space for software installation; HP Memories Disc Creator software requires CD-Writer and 700 MB of additional hard disk space; QuickTime 5.0 or later; any Web browser
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<u>Dimensions / weight</u>	
Dimensions (wxdxh)	17.7 x 15.1 x 9.2 in
Weight, U.S.	15 lb

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HP Deskjet 450wbt mobile printer (C8145A) - specifications



Speed/monthly volume	
Print speed, black (draft quality mode)	Up to 9 ppm
Print speed, black (normal quality mode)	Up to 5 ppm
Print speed, black (best quality mode)	Up to 1.6 ppm
Print speed, color (draft mode)	Up to 3 ppm
Print speed, color (normal mode)	Up to 1.3 ppm
Print speed, color (best quality mode)	Up to 0.2 ppm
Recommended monthly volume, maximum	500 pages per month pages
Print quality / technology	
Print technology	HP Thermal Inkjet
Print quality, black	Up to 1200 x 1200 dpi (up to 1200 x 1200 dpi rendered black text on inkjet paper)
Print quality, color	Up to 4800 x 1200-optimized dpi (up to 4800 x 1200-optimized dpi color printing on premium photo paper and 1200 x 1200-input dpi)
Resolution technology	HP PhotoREt III
Paper handling / media	
Paper trays, max.	1
Input capacity, std.	45 sheets
Input capacity, max.	45 sheets
Duplex printing (printing on both sides of paper)	Manual

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Media sizes, std.	Letter, cards, executive, legal
Media types	Copier, bond, recycled, multipurpose, premium inkjet, premium inkjet heavy weight, premium transparency, premium plus photo paper, photo paper, professional brochure (matte and glossy), labels, cards
Media weight, recommended	17 to 24 lb (bond paper), 110 lb maximum (index cards)
Memory / print languages	
Memory, std.	16 MB RAM, 4 MB ROM
Memory, max.	16 MB RAM, 4 MB ROM
Print languages, std.	HP PCL 3 Enhanced
Typefaces	13 built-in fonts in portrait orientation; US fonts: CG Times, CG Times Italic, Universe, Universe Italic, Courier, Courier Italic, Letter Gothic, Letter Gothic Italic; international fonts: Arabic, Baltic, Cyrillic, Greek, Hebrew
Connectivity	
Connectivity, std.	Bluetooth wireless technology, parallel, USB, Fast Infrared, CompactFlash card slot
Macintosh compatible	Yes
Dimensions / weight / warranty	
Dimensions (w x d x h)	13.3 x 3.2 x 6.5 in
Weight, U.S.	4.2 lb, 4.6 lb (with battery & HP Bluetooth Printer card)
Warranty, std.	One-year limited hardware warranty

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HP LaserJet 2420d Printer (Q5957A) - specifications



Speed/monthly volume	
Print speed, black (best quality mode)	Up to 30 ppm
First page out, black	Less than 10 sec
Processor speed	400 MHz
Recommended monthly volume, maximum	Up to 75000 pages
Print quality / technology	
Print technology	Laser
Print quality, black	Up to 1200 x 1200 dpi
Resolution technology	HP ProRes 1200, Resolution Enhancement technology (REt)
Paper handling / media	
Paper trays, std.	2
Paper trays, max.	3
Input capacity, std.	Up to 350 sheets
Input capacity, max.	Up to 850 sheets
Standard envelope capacity	Up to 10 envelopes
Envelope feeder	No
Output capacity, std.	Up to 250 sheets
Output capacity, max.	Up to 250 sheets
Duplex printing (printing on both sides of paper)	Automatic (standard)
Paper Handling, Input (standard)	100-sheet multipurpose Tray 1, 250-sheet input Tray 2, automatic duplex printing
Paper Handling, Input	500-sheet input tray

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(optional)	
Paper Handling, Output (standard)	250-sheet top output bin (100-sheet rear output bin)
Media sizes, std.	Letter, legal, 8.5 x 13 in, executive, envelopes
Media sizes, custom	Multipurpose Tray 1: 3 x 5 to 8.5 x 14 in
Media weight, recommended	Tray 1, straight-through paper path for special media and heavier stock: 16 to 53 lb; Tray 2, 3: 16 to 32 lb
Media types	Paper (plain, preprinted, letterhead, prepunched, bond, recycled, color, rough), transparencies, labels, envelopes, cardstock, user-defined
Memory / print languages	
Memory, std.	48 MB
Memory, max.	304 MB
Memory slots	Two 100-pin DDR SDRAM DIMM slots (one open), two CompactFlash slots
Hard disk	None
Print languages, std.	HP PCL 6, HP PCL 5e, HP Postscript Level 3 emulation, direct PDF printing v 1.3 (with at least 128 MB of printer memory)
Connectivity	
Connectivity, std.	IEEE 1284-B compliant parallel port, Hi-Speed USB 2.0 port, EIO slot
Connectivity, opt.	HP Jetdirect EIO internal print servers, HP Jetdirect external print servers, HP wireless print servers, HP Jetdirect EIO connectivity card for USB/serial/LocalTalk, Bluetooth wireless
Print drivers, std.	HP PCL 6, HP PCL 5e, HP Postscript Level 3 emulation, Macintosh PPDs
Dimensions / weight / warranty	
Dimensions (w x d x h)	16.7 x 15.7 x 10.2 in
Weight, U.S.	36 lb
Warranty, std.	One-year, return to HP authorized service center warranty
What's in the box	
What's in the box	HP LaserJet 2420d Printer (includes built-in automatic two-sided printing), power cord, control panel overlay (included only when needed to change the language on the control panel for a country/region), print cartridge, software and documentation on CD-ROM, Start Guide, support flyer

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Software included	Print drivers and installation software on CD-ROM; Microsoft Windows Installer, Macintosh Installer, HP PCL 6 and HP PCL 5e print drivers (Windows 95, 98, Me, NT 4.0, 2000, XP), HP Postscript Level 3 emulation (Windows 98, Me, NT 4.0, 2000, XP, Server 2003), PostScript Printer Description files (Macintosh), Printer Dialog Extensions (Macintosh), HP LaserJet Utility (Macintosh), HP LaserJet Toolbox
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HP Color LaserJet 5550dn Printer (Q3715A) - specifications



Speed/monthly volume	
Print speed, black (best quality mode)	Up to 27 ppm
Print speed, color (pages per minute)	Up to 27 ppm
First page out, black	Less than 16 sec
First page out, color	Less than 16 sec
Processor speed	533 MHz
Recommended monthly volume, maximum	Up to 120,000 pages
Print quality / technology	
Print technology	In-line color laser, direct-to-page printing
Print quality, black	Up to 600 x 600 dpi
Print quality, color	Up to 600 x 600 dpi
Resolution technology	HP ImageREt 3600
Paper handling / media	
Paper trays, std.	2
Paper trays, max.	5
Input capacity, std.	Up to 600 sheets
Input capacity, max.	Up to 2100 sheets
Standard envelope capacity	Up to 20 envelopes
Envelope feeder	No
Output capacity, std.	Up to 250 sheets
Output capacity, max.	Up to 250 sheets

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Duplex printing (printing on both sides of paper)	Automatic (standard)
Media sizes, std.	Letter, legal, executive, 11 x 17 in, ledger, envelopes (No. 10, Monarch), statement
Media sizes, custom	Tray 1: 3 x 5 to 12.05 x 18.5 in; automatic two-sided printing, Tray 2, 3, 4, 5: 5.8 x 8.3 to 11.7 x 17 in
Media types	Paper (plain, light, intermediate, heavy, extra heavy, glossy, heavy glossy, high gloss images, tough, recycle), envelopes, transparencies, labels, cardstock
Media weight, recommended	Tray 1: 16 to 53 lb; Tray 2, 3, 4, 5: 16 to 32 lb
Memory / print languages	
Memory, std.	160 MB (128 MB DDR SDRAM, 32 MB of memory on board)
Memory, max.	544 MB (512 MB DDR SDRAM, 32 MB of memory on board)
Memory slots	2 SDRAM DIMM slots (1 open), 3 CompactFlash slots (2 open for font cards or third-party solutions)
Hard disk	Optional, 20 GB
Print languages, std.	HP PCL 6, HP PCL 5c (HP PCL 5c driver available from the Web only), HP Postscript Level 3 emulation, native PDF printing (v1.3), XHTML-Print for mobile phone and PDA printing via the optional HP bt1300 adapter
Typefaces	80 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP postscript level 3 emulation (Euro symbol built-in); additional font solutions available via third-party flash memory cards
Connectivity	
Connectivity, std.	IEEE 1284-C compliant bidirectional parallel port, USB 1.1 port, HP Jetdirect 620n Fast Ethernet Print Server in EIO slot, 2 open EIO slots, Jetlink port (for third-party paper handling devices)
Connectivity, opt.	HP Jetdirect EIO internal print servers, HP Jetdirect external print servers, HP wireless print servers, HP Jetdirect EIO connectivity card for USB/serial/LocalTalk, and Bluetooth wireless
Print drivers, std.	HP PCL 5c, HP PCL 6, HP PostScript Level 3 emulation
Dimensions / weight / warranty	
Dimensions (w x d x h)	22.7 x 27.7 x 25.2 in
Weight, U.S.	114 lb

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Warranty, std.	One-year, next business day onsite warranty
What's in the box	
What's in the box	Printer; HP cyan, magenta, yellow, and black print cartridges; software and User's guide on CD; Getting Started Guide; Network Installation Guide; power cord; 100-sheet multipurpose tray; 500-sheet input tray; HP Jetdirect 620n Fast Ethernet internal print server; automatic two-sided printing unit
Software included	Print drivers and installation software on CD-ROM (HP PCL 6, HP PostScript Level 3 emulation. 32-bit drivers only); HP PCL 5c (provided on add printer install)

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HP LaserJet 9050dn Printer (Q3723A) specifications



Speed/monthly volume	
Print speed, black (best quality mode)	Up to 50 ppm
First page out, black	Less than 8 sec
Processor speed	533 MHz
Recommended monthly volume, maximum	Up to 300000 pages
Print quality / technology	
Print technology	Laser
Print quality, black	600 x 600 dpi [with HP FastRes 1200 and Resolution Enhancement technology (REt)]
Resolution technology	HP FastRes 1200, Resolution Enhancement technology (REt)
Paper handling / media	
Paper trays, std.	3
Paper trays, max.	4
Input capacity, std.	Up to 1100 sheets
Input capacity, max.	Up to 3100 sheets
Standard envelope capacity	Up to 10 envelopes
Envelope feeder	No
Output capacity, std.	Up to 600 (500 sheets face down, 100 sheets face up) sheets
Output capacity, max.	Up to 3600 (with optional 3000-sheet stacker or stapler/stacker), up to 2500 (with optional 8-bin mailbox), up to 1600 (with optional multifunction finisher) sheets
Duplex printing (printing on both sides of paper)	Automatic (standard)
Paper Handling Input	2 x 500-sheet input trays, 100-sheet multipurpose tray, automatic

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(standard)	duplex unit
Paper Handling, Input (optional)	2000-sheet input tray
Paper Handling, Output (standard)	600-sheet output bin (500 sheets face down, 100 sheets face up)
Paper Handling, Output (optional)	Optional 3000-sheet stacker (requires 2000-sheet input tray) or optional 3000-sheet stapler/stacker (requires 2000-sheet input tray) or optional multifunction finisher (requires 2000-sheet input tray); optional 8-bin mailbox (requires 2000-sheet input tray)
Media sizes, std.	Letter, legal, tabloid, executive, JPostD, envelopes (No. 10, C5, DL, Monarch, B5)
Media sizes, custom	Multipurpose Tray 1: 3.9 x 7.5 to 12.3 x 18.5 in; automatic two-sided printing unit, Trays 2, 3, 4, and 8-bin mailbox: 5.8 x 8.3 to 11.7 x 17 in
Media weight, recommended	Multipurpose Tray 1: 17 to 58 lb; automatic two-sided printing unit, Trays 2, 3, optional Tray 4: 17 to 53 lb
Media types	Paper (plain, preprinted, letterhead, prepunched, bond, color, recycled, rough), transparencies, labels, cardstock
Memory / print languages	
Memory, std.	128 MB RAM
Memory, max.	512 MB
Memory slots	Two 100-pin DDR DIMM slots
Hard disk	Optional, 20 GB HP High-performance EIO Hard Disk
Print languages, std.	HP PCL 6, HP PCL 5e, HP Postscript Level 3 emulation, direct PDF printing (v 1.3), XHTML-Print v 0.95, HP PDL (Printer Job Language), PML (Printer Management Language)
Connectivity	
Connectivity, std.	Bidirectional IEEE 1284-B compliant parallel port, 2 open EIO slots, HP Jetdirect Fast Ethernet Embedded Print Server
Connectivity, opt.	HP Jetdirect EIO internal print servers, HP Jetdirect external print servers, and wireless connectivity
Print drivers, std.	HP PCL 5e, HP PCL 6, HP Postscript Level 3 emulation
Dimensions / weight / warranty	
Dimensions (w x d x h)	55 x 24.9 x 23.6 in
Weight, U.S.	168 lb

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Warranty, std.	One-year, next business day onsite warranty
What's in the box	
What's in the box	HP LaserJet 9050dn Printer, 100-sheet multipurpose tray, two 500-sheet input trays, HP Jetdirect Fast Ethernet Embedded Print Server, automatic two-sided printing unit, face-up output bin, power cord, print cartridge, printer documentation, printer software CD-ROM, control panel overlay
Software included	Print drivers and installation software on CD-ROM (HP PCL 5e, HP PCL 6, HP Postscript Level 3 emulation)

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HP LaserJet 4250dtn Printer (Q5403A) specifications



Speed/monthly volume	
Print speed, black (best quality mode)	Up to 45 ppm
First page out, black	Less than 8 sec
Processor speed	460 MHz
Recommended monthly volume, maximum	200000 pages
Print quality / technology	
Print technology	Laser EP
Print quality, black	Up to 1200 x 1200 dpi
Resolution technology	HP ProRes 1200, HP FastRes 1200, Resolution Enhancement technology (REt)
Paper handling / media	
Paper trays, std.	3
Paper trays, max.	5
Input capacity, std.	Up to 1100 sheets
Input capacity, max.	Up to 3100 sheets
Standard envelope capacity	Up to 10 envelopes
Envelope feeder	Yes, 75
Output capacity, std.	Up to 300 (250 face down, 50 face up) sheets
Output capacity, max.	Up to 800 sheets
Duplex printing (printing on both sides of paper)	Automatic (standard)
Paper Handling Input	100-sheet multpurpose Tray 1, two 500-sheet input trays (2 and 3)

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(standard)	two-sided printing accessory
Paper Handling, Input (optional)	500-sheet or 1500-sheet input tray (2 additional trays for up to 3100-sheet input capacity), 75-envelope feeder
Paper Handling, Output (standard)	50-sheet rear output bin, 250-sheet top output bin
Paper Handling, Output (optional)	500-sheet stacker or 15-sheet stapler/500-sheet stacker
Media sizes, std.	Letter, legal, executive, statement, 8.5 x 13 in, envelopes (No. 10, Monarch)
Media sizes, custom	Multipurpose Tray 1: 3 x 5 to 8.5 x 14 in; Trays 2 and 3: 5.8 x 8.3 to 8.5 x 14 in
Media weight, recommended	Multipurpose Tray 1: 16 to 53 lb; Trays 2 and 3, optional 1500-sheet HCI tray, two-sided printing accessory: 16 to 32 lb; optional envelope feeder: 20 to 28 lb
Media types	Paper (plain, preprinted, letterhead, prepunched, bond, recycled, color, rough), transparencies, labels, envelopes, cardstock, user-defined
Memory / print languages	
Memory, std.	80 MB
Memory, max.	512 MB
Memory slots	Two 100-pin DDR DIMM slots, two open industry-standard CompactFlash slots
Hard disk	Optional, 20 GB HP High-performance EIO hard disk
Print languages, std.	HP PCL 6, HP PCL 5e, HP Postscript Level 3 emulation, direct PDF (v 1.3) printing (with at least 128 MB printer memory)
Connectivity	
Connectivity, std.	Hi-Speed USB 2.0 port, IEEE 1284-B compliant parallel port, 2 open EIO slots, HP Jetdirect Fast Ethernet Embedded Print Server
Connectivity, opt.	HP Jetdirect EIO internal print servers, HP Jetdirect external print servers, HP wireless print servers, HP Jetdirect EIO connectivity card for USB/serial/LocalTalk, Bluetooth wireless
Print drivers, std.	HP PCL 6, HP PCL 5e, HP PostScript Level 3 emulation, HP-GL/2
Dimensions / weight / warranty	
Dimensions (w x d x h)	16.5 x 21 x 19.6 in
Weight, U.S.	65.5 lb

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Warranty, std.	One-year, return to HP authorized service center warranty
What's in the box	
What's in the box	HP LaserJet 4250dtn Printer, right-angle power cord, control panel overlay, print cartridge, software and documentation on CD-ROM, Getting Started Guide, support flyer, HP Jetdirect Fast Ethernet Embedded Print Server, additional 500-sheet input paper tray, two-sided printing accessory
Software included	Print drivers and installation software on CD-ROM (HP PCL 6, HP PCL 5e, PS, PPDs, HP LaserJet Utility, HP LaserJet Toolbox, Macintosh software)

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HP LaserJet 4345mfp series - specifications



Functions	
Functions	<p>4345x mfp: Black-and-white printing, black-and-white copying, color scan to email, analog faxing, optional digital sending</p> <p>4345 xm mfp: Black-and-white printing, black-and-white copying, color scan to email, analog faxing, optional digital sending, output stacking, mailboxing, function separating</p> <p>4345mfp: Black-and-white printing, black-and-white copying, color scan to email, optional digital sending</p> <p>4345xs mfp: Black-and-white printing, black-and-white copying, color scan to email, analog faxing, optional digital sending, output stacking, output stapling</p>
Printer specifications	
Prints colors	No
Print speed, black (best quality mode)	Up to 45 ppm
First page out, black	Less than 10 seconds
processor speed	533 MHz
Recommended monthly volume, maximum	Up to 200000 pages
Print quality, black	1200 x 1200 dpi (with HP FastRes 1200)
Print technology	Laser
Duplex printing (printing on both sides of paper)	<p>4345mfp: Automatic (optional with the purchase of auto-duplex unit)</p> <p>4345x mfp / 4345xs mfp / 4345 xm mfp: Automatic (standard)</p>
Memory, std.	256 MB
Memory, max.	512 MB
Memory slots	Two 100-pin DIMM slots (one open)
Hard disk	Standard, 20 GB HP high-performance embedded hard disk
Connectivity, std.	4345mfp: Bidirectional IEEE-1284-B compliant parallel port 1

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	available EIO slot, HP Jetdirect Fast Ethernet Embedded Print Server; Jetlink port for third-party paper handling solutions, Foreign Interface Harness (FIH) connector 4345x mfp / 4345xs mfp / 4345 xm mfp: Bidirectional IEEE-1284-B compliant parallel port, 1 available EIO slot, HP Jetdirect Fast Ethernet Embedded Print Server; Jetlink port for third-party paper handling solutions, Foreign Interface Harness (FIH) connector, RJ-11 fax interface port
Connectivity, opt.	HP Jetdirect EIO internal print servers, HP Jetdirect external print servers, and HP Jetdirect EIO Connectivity Card for USB (compatible with USB 2.0 specifications), serial, and LocalTalk
Print languages, std.	HP PCL 6, HP PCL 5e, HP Postscript Level 3 emulation, direct PDF printing (v 1.3), XHTML-Print v 0.95, PML (Printer Management Language)
General specifications	
Automatic document feeder	Standard, 50 sheets
Paper trays, std.	4345mfp: 2 4345x mfp / 4345xs mfp / 4345 xm mfp: 3
Paper trays, max.	5
Input capacity, std.	4345x mfp / 4345xs mfp / 4345 xm mfp: Up to 1100 sheets 4345mfp: Up to 600 sheets
Input capacity, max.	Up to 2100 sheets
Output capacity, std.	4345mfp / 4345x mfp: Up to 500 sheets 4345xs mfp: Up to 500 (or 15 packets of 30 pages stapled) sheets 4345 xm mfp: Up to 700 (500 bottom tray, 100 in each of top two bins) sheets
Output capacity, max.	Up to 700 (with 3-bin mailbox), up to 500 (with stapler/stacker) sheets
Standard envelope capacity	Up to 10 envelopes
Media types	Paper (plain, preprinted, letterhead, prepunched, bond, recycled, color, rough), transparencies, labels, envelopes, card stock
Media sizes, std.	Letter, legal, executive, statement, 8.5 x 13 in, envelopes (No. 10, commercial)
Media sizes, custom	Multipurpose tray, 3-bin mailbox, and stacker element of stapler/stacker: 3 x 5 to 8.5 x 14 in; 500-sheet input Trays 2, 3, 4, 5: 5.8 x 8.3 to 8.5 x 14 in; custom sizes not supported on optional automatic two-sided printing accessory, envelope feeder, or stapler
Media weight	Multipurpose tray, 3-bin mailbox: 16 to 53 lb; 500-sheet input Trays 2

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recommended	3, 4, 5: automatic two-sided printing accessory; stapler/stacker: 16 to 32 lb; optional envelope feeder: 20 to 28 lb
Print cartridges	1 (black)
Multitasking capability	Yes
Software included	Print drivers and installation software on CD-ROM (HP PCL 6, HP PCL 5e, HP Postscript Level 3 emulation, HP LaserJet Utility, HP Toolbox, Macintosh software, PostScript Printer Description)
Dimensions (w x d x h)	4345mfp: 30 x 19 x 21.5 in 4345x mfp: 30 x 19 x 26.3 in 4345xs mfp / 4345 xm mfp: 36 x 19 x 43.7 in
Weight, U.S.	4345mfp: 117.7 lbs 4345x mfp: 140.5 lbs 4345xs mfp: 264 lbs 4345 xm mfp: 264 lbs
Warranty, std.	One-year, next business day onsite warranty
Compatible operating systems	Microsoft Windows 98, Me, NT 4.0 (parallel and network connections only), 2000, XP, Server 2003; Apple Mac OS 9.x and later, OS X v 10.1 or later
Fax specifications	
Color fax	No
Fax transmission speed (seconds per page)	Up to 33.6 kbps
Fax autore dial	Yes
Fax PC interface	4345xs mfp / 4345 xm mfp: No
Speed dials, maximum number	4345mfp / 4345xs mfp / 4345 xm mfp: 100 (each can contain 100 numbers) 4345x mfp: No
Fax broadcast	100
Fax forwarding	Yes
Fax auto-reduction	Yes
Junk fax barrier	Yes
Fax delayed sending	No
Polling	Yes
Remote retrieval	No

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Distinctive ring detection	No
Copier specifications	
Copy speed, black (copies per minute)	Up to 45 cpm
Copy speed, color (copies per minute)	29 ipm (scan, simplex), 18 ipm (automatic two-sided printing)
Copy resolution, black	600 x 600 dpi
Copy settings	Scalability, contrast, background removal, sharpness, N- or Z-ordering, orientation
Maximum number of copies	999
Copy reduce/enlarge settings	25 to 400%
Scanner specifications	
Scanner type	Flatbed, automatic document feeder (ADF) scanner
Maximum scan size	8.5 x 11.7 in
Levels of grayscale	256
What's in the box	
What's in the box	<p>4345mfp: HP LaserJet 4345mfp, and all models include: straight power cord, control panel overlay, print cartridge, software and documentation on CD-ROM, information and training CD, in-box documentation (Getting Started Guide, Walk Up Wall Poster, Network Configuration Guide, Telephone Support Flyer)</p> <p>4345x mfp: HP LaserJet 4345x mfp, phone cord, 500-sheet input Tray 3, analog fax accessory, Fax Install Guide, and all models include: straight power cord, control panel overlay, print cartridge, software and documentation on CD-ROM, information and training CD, in-box documentation (Getting Started Guide, Walk Up Wall Poster, Network Configuration Guide, Telephone Support Flyer)</p> <p>4345 xm mfp: HP LaserJet 4345xm mfp, phone cord, 500-sheet input Tray 3, analog fax accessory, Fax Install Guide, 3-bin mailbox, MFP stand, and all models include: straight power cord, control panel overlay, print cartridge, software and documentation on CD-ROM, information and training CD, in-box documentation (Getting Started Guide, Walk Up Wall Poster, Network Configuration Guide, Telephone Support Flyer)</p>

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4345xs mfp: HP LaserJet 4345xs mfp, phone cord, 500-sheet input Tray 3, analog fax accessory, Fax Install Guide, stapler/stacker, MFP stand, and all models include: straight power cord, control panel overlay, print cartridge, software and documentation on CD-ROM, information and training CD, in-box documentation (Getting Started Guide, Walk Up Wall Poster, Network Configuration Guide, Telephone Support Flyer)

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