

## Brother ALL-IN-ONE COLOUR LASER PRINTER

Wireless four-in-one colour laser printer, with built-in mobile printing

Print  
Scan  
Copy  
Fax

**High-resolution colour laser all-in-one printer, with outstanding print speeds of up to 31ppm and 2-sided scan speeds of up to 56ipm in both colour and mono. You can be confident that efficiency has been at the heart of the design.**



### Key Features:

Fast print speeds of up to 31ppm colour and mono

Paper input of up to 300 Sheets

Maximum paper input of up to 1,050 sheets

Automatic 2-Sided Printing

2-sided scan speed of 56ipm colour & mono

Optional high-yield replacement cartridges, 6,500 black, 4,000 page cyan, magenta and yellow toner cartridge

High speed wired (10Base-T/100 Base-TX/1000Base-T) and wireless (IEEE 802.11b/g/n) network interfaces

Intuitive 9.3cm Colour Touchscreen

### Increase productivity levels

- Productivity is increased significantly thanks to the fast print speeds of up to 31ppm, and 2-sided scan speeds of up to 56ipm in colour and mono.
- Maximise your efficiency with built-in wireless IEEE 802.11b/g/n and ethernet 10Base-T/100Base-TX/1000Base-T.
- Easily print from your mobile device, using Brother's iPrint&Scan, Brother print service plugin for Android, Google Cloud Print 2.0, Mopria and AirPrint.
- Outstanding paper handling options with a standard paper capacity of up to 300 sheets to 1,050 sheets.

### Meeting security challenges

- Modern businesses demand the highest levels of security. With Secure Function Lock 3.0, Active Directory Authentication, Internet Protocol Security (IPsec), 802.1x and Secure Print, you can be confident that your documents are safe.

### Flexible and low running costs

- Designed for high volume printing environments, the MFC-L8690CDW includes a 3,000 page black and 1,800 page cyan, magenta and yellow toners, and can take optional 6,500 page black and 4,000 page cyan, magenta and yellow toners to lower your running costs even further.

## General

<b>Technology</b>	Electrophotographic Laser Printer
<b>Laser Classification</b>	Class 1 laser product (IEC 60825-1:2007)
<b>Processor</b>	800MHz – Sub: 133Mhz
<b>Local Interface</b>	Hi-Speed USB 2.0 & USB Host
<b>Wired Network Interface</b>	Ethernet 10Base-T/100Base-TX/1000Base-T
<b>Wireless Network Interface</b>	IEEE 802.11b/g/n
<b>Standard Memory</b>	512MB
<b>Display</b>	9.3cm Colour Touchscreen
<b>Shortcuts</b>	48

## Colour Printer

<b>Print Speed Standard (A4)</b>	Up to 31ppm (pages per minute) colour & mono
<b>Print Speed 2-Sided (A4)</b>	Up to 14 sides per minute (7 sheets per minute) colour & mono
<b>Resolution</b>	2,400dpi (2,400 x 600dpi), 600 x 600dpi
<b>Quiet Mode</b>	A mode to reduce the printing noise by reducing the print speed to 15ppm
<b>FPOT (First Print Out Time)</b>	Less than 15 seconds colour & mono from ready mode
<b>Warm-Up Time</b>	Less than 31 seconds from sleep mode
<b>Print Languages</b>	PCL6, BR-Script3 (PostScript®3™ Language Emulation), PDF 1.7, XPS 1.0
<b>Embedded Fonts (PCL)</b>	66 scalable fonts, 12 bitmap fonts, 16 barcodes
<b>Embedded Fonts (Postscript)</b>	66 scalable fonts
<b>Embedded Barcodes (PCL)</b>	Code39, Interleaved 2 of 5, FIM (US-PostNet), Post Net (US-PostNet), EAN-8, EAN-13, UPC-A, UPC-E, Codabar, ISBN (EAN), ISBN (UPC-E), Code128 (set A, set B, set C), EAN128 (set A, set B, set C), Code93, GS1Databar, MSI

## Printer Driver

<b>Windows®</b>	Windows 10® (32 & 64 bit editions) Windows 8® (32 & 64 bit editions) Windows 7® (32 & 64 bit editions) Windows® Server 2016, 2012, 2012R2 & 2008R2 Windows® Server 2008 (32 & 64 bit editions)* *Windows® Server supports network printing only
<b>Macintosh<sup>5</sup></b>	Mac OS v10.10.5, v10.11.x, v10.12
<b>Linux<sup>5</sup></b>	CUPS, LPD/LPRng (x86/x64 environment)
<b>PostScript Universal Printer Driver</b>	Driver for Windows® that enables you to print to any network or locally connected Brother laser printer that supports PostScript
<b>PCL Driver</b>	Generic PCL XL driver

## Printer Functions

<b>N-up Printing</b>	Reduce up to 2, 4, 9, 16 or 25 A4 pages into just one A4 page (Mac, up to 2, 4, 6, 9, or 16)
<b>Poster Printing</b>	Enlarge 1 A4 page into a poster using 4, 9, 16 or 25 A4 pages
<b>Watermark Printing</b>	Watermark your documents with predefined text or with your own user-defined messages
<b>ID Printing</b>	Add identification to your printed documents (date & time, short custom message or PC username)
<b>Automatic 2-Sided Print</b>	Print on to both sides of the paper automatically
<b>Manual 2-Sided Print</b>	Manual 2-sided printing (recommended for media not supported by automatic 2-sided print)
<b>Booklet Printing</b>	Print documents in A5 booklet format using automatic or manual 2-sided print
<b>Print Profiles</b>	Store your favourite driver settings as profiles to easily recall them

## USB Host

<b>Direct Print</b>	Print directly from a USB flash memory drive. The supported file formats include: PDF version 1.7, JPEG, Exif+JPEG, PRN (created by own printer driver), TIFF (scanned by Brother model), XPS version 1.0
<b>Direct Scan</b>	Scan directly to a USB flash memory drive. The supported file formats include: PDF, PDF/A, Secure PDF, Signed PDF, JPEG, XPS, TIFF

## Standard Paper Handling

<b>Paper Input<sup>2</sup></b>	Lower Tray – 250 sheets Multi Purpose Tray – 50 sheets Automatic Document Feeder – 50 Sheet
<b>Paper Output<sup>2</sup></b>	Face Down - 150 sheets Face Up (Straight Paper Path) - 1 sheet

## Optional Paper Handling

<b>Paper Input<sup>2</sup></b>	250 Sheets (LT-330CL) Maximum of 3 optional trays
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## Media Specification

<b>Media Types &amp; Weights</b>	<b>Standard Tray</b> – plain, recycled, coloured and letterhead (between 60 - 105g/m <sup>2</sup> ) <b>Multi Purpose Tray</b> - plain, recycled, bond, coloured, letterhead and glossy <sup>9</sup> paper (between 60 -163g/m <sup>2</sup> ) <b>2-sided Print</b> - plain, recycled, coloured, letterhead and glossy <sup>9</sup> paper (between 60 - 105g/m <sup>2</sup> ) <b>Automatic Document Feeder</b> - Plain & recycled paper (between 64 - 90g/m <sup>2</sup> )
<b>Envelope &amp; Label Printing</b>	Yes, from the Multi Purpose Tray: support for 10 envelopes up to 10mm total thickness
<b>Media Sizes</b>	<b>Standard Tray</b> - A4, Letter, A5, A5(Long Edge), A6, Executive, Legal, Folio, Mexico Legal <b>Multi Purpose Tray</b> - Width: 76.2mm to 215.9mm x Length: 127mm to 355.6mm <b>Automatic Document Feeder</b> - Width: 105mm to 215.9mm x Length: 147.3mm to 355.6mm <b>2-sided Print</b> – A4

<sup>1</sup> Approx declared yield value in accordance with ISO/IEC 19798

<sup>2</sup> Calculated with 80g/m<sup>2</sup> paper

<sup>3</sup> Windows® & Mac only

<sup>4</sup> Windows® only

<sup>5</sup> Optional download

<sup>6</sup> Must be web connected

<sup>7</sup> Requires Brother software

<sup>8</sup> Maximum number of printed pages per month can be used to compare designed durability between like Brother products.

For maximum printer life, it is best to choose a printer with a duty cycle that far exceeds your print requirements

<sup>9</sup> Only a single sheet supported in the Multi Purpose Tray

## Colour Scanner

<b>Scanner Type</b>	Duel CIS (Contact Image Sensor)
<b>Automatic 2-Sided Scanning</b>	Yes
<b>Colour &amp; Mono Scanning</b>	Yes
<b>Scan Speed</b>	28ipm (images per minute) colour & mono
<b>2 Sided Scan Speed</b>	56ipm (images per minute) colour & mono
<b>Scan Resolution from ADF</b>	Up to 1,200 x600dpi
<b>Scan Resolution from Scanner Glass</b>	Up to 1,200 x2,400dpi
<b>Interpolated Scan Resolution<sup>7</sup></b>	Up to 19,200 x 19,200dpi
<b>Colour Depth</b>	16, 777, 216 colour variations (24 bit)
<b>Grey Scale</b>	256 shades of grey (8 bit)
<b>Standard Functions<sup>7</sup></b>	Scan to USB, E-mail, OCR, Image & File
<b>Network Scanning</b>	Scan to network folder (Windows® only), FTP, SFTP, Email Server <sup>2</sup> , SharePoint & Easy Scan to Email <sup>6</sup>
<b>Cloud Scanning<sup>6</sup></b>	Scan direct to Box, Dropbox, Evernote™, Google Drive™, OneDrive, Flickr, Facebook, OneNote
<b>Scan Features</b>	Remove Background, Skip Blank Page, ID Scan, 1 to 2 Scan, Auto Deskew from ADF, Split PDF
<b>Scan to Microsoft Office</b>	Scan to Microsoft® Word, Microsoft® Excel & Microsoft® PowerPoint
<b>Scan to Searchable PDF</b>	Scan documents to searchable PDF files
<b>Scan to SharePoint</b>	Scan documents directly into SharePoint
<b>Outline &amp; Scan<sup>6</sup></b>	Draw around items to either scan a section or remove a section from the original document
<b>Windows® Web Services Scanning</b>	Scan direct into Windows® (from Windows® 7 & onwards) without needing to install a scanner driver
<b>Note Scan<sup>6</sup></b>	Scan and organise notes taken on the folding note papers

## Scanner Driver

<b>Windows®</b>	TWAIN, WIA & ISIS Windows 10® (32 & 64 bit editions) Windows® 8 (32 & 64 bit editions), Windows® 7 (32 & 64 bit editions),
<b>Macintosh<sup>5</sup></b>	TWAIN & ICA Mac OS v10.10.5, v10.11.x, v10.12
<b>Linux<sup>5</sup></b>	SANE(32 & 64 bit editions)

## Address Book

<b>Speed Dials</b>	300 locations for E-mail addresses and Fax numbers
<b>Group Dial</b>	A combination of up to 20 groups can be stored for broadcasting
<b>LDAP</b>	The ability to connect to an external LDAP enabled address book, like Microsoft® Exchange

## Colour Copier

<b>Speed –(A4)</b>	Up to 31cpm (copies per minute) colour & mono
<b>FCOT (First Copy Out Time)</b>	Less than 17 seconds colour & less than 16 seconds mono from ready mode
<b>Resolution</b>	Up to 1,200 x600dpi
<b>Multi-Copying / Stack / Sort</b>	Makes up to 99 copies of each page / Stacks or Sorts
<b>Enlargement / Reduction Ratio</b>	Reduce or Increase document sizes from 25% to 400% in 1% increments
<b>N in 1 Copying</b>	Allows the user to compress 2 or 4 pages on to a single A4 sheet
<b>2in1 ID Copying</b>	Allows the user to copy both sides of an ID card to a single A4 sheet
<b>Grey Scale</b>	256 shades of grey are available for copying
<b>Receipt Copying</b>	Produces clearer copies of receipts
<b>Outline and Copy<sup>6</sup></b>	Copies or deletes areas outlined by a red pen

## Mobile / Web Based Printing & Scanning

<b>Brother iPrint&amp;Scan (Android)</b>	Print from, scan to, send faxes, preview received faxes, preview copies and check the machine status from an Android device
<b>Brother iPrint&amp;Scan (iPad / iPhone / iPod)</b>	Print from, scan to, send faxes, preview received faxes, preview copies and check the machine status from an iPad / iPhone / iPod Touch
<b>Brother iPrint&amp;Scan (Windows® Phone)</b>	Print from and scan to a smart phone running the Windows® Phone Operating System
<b>Brother Print&amp;Scan (Windows® 8, 10 &amp; RT)</b>	Print from and scan to a Windows® 8, 10 or Windows RT Tablet
<b>Google Cloud Print 2.0</b>	Print most common file types from any Google Cloud Print enabled application
<b>AirPrint</b>	Print most common file types from any AirPrint enabled application
<b>Mopria</b>	Print most common file types from Mopria supported Android devices
<b>Brother Print Service Plugin</b>	Print from Android devices without a dedicated App
<b>Box<sup>6</sup></b>	Print from and scan to Box without using a PC
<b>Dropbox<sup>6</sup></b>	Print from and scan to Dropbox without using a PC
<b>Evernote™<sup>6</sup></b>	Print from and scan to Evernote™ without using a PC
<b>Google Drive™<sup>6</sup></b>	Print from and scan to Google Drive™ without using a PC
<b>OneDrive<sup>6</sup></b>	Print from and scan to Microsoft® OneDrive without using a PC
<b>Flickr®<sup>6</sup></b>	Print from and scan to Flickr® without using a PC
<b>Facebook®<sup>6</sup></b>	Print from and scan to Facebook® without using a PC
<b>OneNote<sup>6</sup></b>	Scan to Microsoft® OneNote without using a PC
<b>Folding Notes<sup>6</sup></b>	Create handy folding note papers
<b>Creative Centre<sup>6</sup></b>	Download and print Brother Creative Center content

<sup>1</sup> Approx declared yield value in accordance with ISO/IEC 19798

<sup>2</sup> Calculated with 80g/m<sup>2</sup> paper

<sup>3</sup> Windows® & Mac only

<sup>4</sup> Windows® only

<sup>5</sup> Optional download

<sup>6</sup> Must be web connected

<sup>7</sup> Requires Brother software

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<sup>9</sup> Only a single sheet supported in the Multi Purpose Tray

## Network & Security

<b>Wired Network</b>	Built in Ethernet 10Base-T/100Base-TX/1000Base-T
<b>Wireless Network</b>	IEEE 802.11b/g/n (Infrastructure Mode / Adhoc Mode)
<b>Wi-Fi Direct™</b>	Print wirelessly without having to go through a wireless access point (both automatic and manual methods supported)
<b>Wireless Setup Support</b>	Wi-Fi Protected Setup (WPS)
<b>Wireless Applications</b>	Vertical Pairing
<b>Network Protocols</b>	TCP/IP (IPv4 and IPv6)
<b>IPv4</b>	ARP, RARP, BOOTP, DHCP, APIPA(Auto IP), WINS/NetBIOS name resolution, DNS Resolver, mDNS, LLMNR responder, LPR/LPD, Custom Raw Port/Port9100, POP3*, SMTP Client, IPP/PPS, FTP Client and Server, CIFS Client, TELNET Server, SNMPv1/v2c/v3, HTTP/HTTPS server, TFTP client and server, ICMP, Web Services (Print/Scan), SMTP Client, LDAP, IMAP4*  *When Internet FAX is downloaded.
<b>IPv6</b>	NDP, RA, DNS resolver, mDNS, LLMNR responder, LPR/LPD, Custom Raw Port/Port9100, IPP/PPS, POP3*, SMTP Client, FTP Client and Server, CIFS Client, TELNET Server, SNMPv1/v2c/v3, HTTP/HTTPS server, TFTP client and server, ICMPv6, SMTP Client, LDAP, Web Services (Print/Scan), IMAP4* *When Internet FAX is downloaded.
<b>Wired Network Security</b>	APOP*, SMTP-AUTH, SSL/TLS (IPPS, HTTPS, SMTP, POP3*, IMAP4*), SNMP v3, 802.1x (EAP- MD5, EAP-FAST, PEAP, EAP-TLS, EAP-TTLS), Kerberos, IPsec *When Internet FAX is downloaded.
<b>Wireless Network Security</b>	WEP 64/128 bit, WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES) APOP*, SMTP-AUTH, SSL/TLS (IPPS, HTTPS, SMTP, POP3*, IMAP4*), SNMP v3, 802.1x (LEAP, EAP-FAST, PEAP, EAP-TLS, EAP-TTLS), Kerberos, IPsec *When Internet FAX is downloaded.
<b>Print Log To Network</b>	Records printing activities from each individual user, including network username, name of document printed and number of pages, to a file on a network
<b>E-mail Notifications</b>	Automatically have the device send an E-mail to a nominated E-mail address when it requires attention
<b>E-mail Reports</b>	Receive usage reports on a regular basis via E-mail
<b>IPv4 Filter</b>	Restrict which network users either can or cannot access the device over the network
<b>Secure Function Lock 3.0</b>	Restrict access to individual or groups of users over a network. Can be used with PC User Login Names for up to 200 users
<b>Setting Lock</b>	Restrict access to the control panel
<b>Secure Print<sup>3</sup></b>	Protect print jobs with a 4 digit PIN that has to be entered at the control panel of the printer before printing
<b>Active Directory Authentication</b>	Retrieve stored print jobs & control access to the devices functionality by using credentials from Active Directory
<b>LDAP Authentication</b>	Retrieve stored print jobs & control access to the devices functionality using credentials from an LDAP supported database

## PrintSmart Solution (optional)

<b>PrintSmart CostControl</b>	Monitor and control printing costs for all Brother and 3rd party devices
<b>PrintSmart SecurePro</b>	Secure pull printing plus the benefits of PrintSmart CostControl

## Fleet Management Tools

<b>Unattended Installer<sup>4</sup></b>	Ability to centrally deploy and customise our drivers and software
<b>MSI Installer<sup>4</sup></b>	Modular installers that can be distributed through Active Directory <sup>®</sup>
<b>Embedded Web Server</b>	Web based print management software embedded onto the device
<b>BRAdmin Professional<sup>3,4,5</sup></b>	LAN/WAN management software
<b>Driver Deployment Wizard<sup>4</sup></b>	Easily create print drivers for hassle free deployment over your network

## Developers

<b>Brother Solution Interface (BSI)</b>	Create powerful cloud and on premise solutions directly integrating the advanced print, scan and security capabilities of Brother scanners, printers and all in ones. For more information visit: <a href="http://www.brother.eu/developers">www.brother.eu/developers</a>
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## Supplies & Accessories

<b>Inbox Toners</b>	Black Toner – 3,000 pages <sup>1</sup> Cyan, Magenta & Yellow Toners - 1,800 pages <sup>1</sup>
<b>Standard Yield Toners</b>	Black Toner (TN-421BK) 3,000 pages <sup>1</sup> Cyan Toner (TN-421C) 1,800 pages <sup>1</sup> Magenta Toner (TN-421M) 1,800 pages <sup>1</sup> Yellow Toner (TN-421Y) 1,800 pages <sup>1</sup>
<b>High Yield Toners</b>	Black Toner (TN-423BK) 6,500 pages <sup>1</sup> Cyan Toner (TN-423C) 4,000 pages <sup>1</sup> Magenta Toner (TN-423M) 4,000 pages <sup>1</sup> Yellow Toner (TN-423Y) 4,000 pages <sup>1</sup>
<b>Other Supplies</b>	Drum (DR-421CL) Approx. 30,000 pages (1page/job) Approx. 50,000 pages (3page/job) Belt (BU-330CL) Approx. 50,000 pages (1page/job) Approx. 130,000 pages (3page/job) Waste Toner Box (WT-320CL) Approx 50,000 pages
<b>LT-330CL</b>	Optional 250 sheet Lower Tray
<b>CH-1000</b>	Card Reader Holder
<b>Carton Contents</b>	Toner Cartridges, Drum, Belt, Waste Toner Box, Power Supply Cord, Driver Software For Windows <sup>®</sup> , Quick Set-Up Guide, PC Interface Cable NOT Included, Telephone line cord

The frequency of replacement consumables will vary depending on the complexity of the prints, the percentage of coverage, paper size, page per job, and the type of media. For example glossy coated paper will result in a shortened life of such supplies.

## Duty Cycles

<b>Recommended Monthly</b>	Up to 3,000 pages monthly print volume
<b>Maximum Monthly<sup>8</sup></b>	Up to 40,000 pages monthly print volume

## Dimensions & Weight

<b>With Carton (WxDxH)</b>	663 x 542 x 654mm 33.7kg
<b>Without Carton (WxDxH)</b>	435 x 526 x 539mm 27.9Kg

## Environment

<b>Power Consumption</b>	Printing - 580W, ready - 70W, sleep – 10W, deep sleep – 1.4W, power down - 0.03W
<b>TEC Value</b>	1.9kWh / Week
<b>Sound Pressure Level</b>	Printing - 49dbA, quiet mode printing – 44dbA, ready - inaudible
<b>Sound Power Level</b>	Printing – 6.56BA, quiet mode printing – 6.0BA, ready – inaudible
<b>Power Saving</b>	This enables the printer to consume less energy when not in use
<b>Toner Saving</b>	This reduces the toner usage and helps to reduce the total cost of printer ownership
<b>Energy Star</b>	Yes
<b>Blue Angel</b>	Yes
<b>Nordic Swan</b>	Yes

## Fax

<b>Fax Modem</b>	33,600bps (Super G3)
<b>Automatic 2-Sided Faxing</b>	Yes
<b>Internet Fax (iFax)<sup>5</sup></b>	Fax documents anywhere in the world over the Internet without the use of a telephone line
<b>Fax to Server</b>	Sends faxes to a server
<b>PC Fax Send</b>	Send faxes directly from your PC
<b>PC Fax Receive</b>	Receive faxes directly to your PC
<b>Automatic Redial</b>	Automatic redialling if the recipient fax is busy
<b>Telephone Index</b>	An electronic, alphabetical listing of stored speed dials and group numbers
<b>Chain Dialling</b>	Allows the user to store parts for long dialling sequences in different speed dial locations
<b>Distinctive Ring Detection (UK &amp; Denmark only)</b>	An external service that allows two or more telephone numbers shared on a single fixed line and use different ring tones
<b>Speaker / Ring volume</b>	3 levels and off
<b>Fax / Tel Switch</b>	Automatic recognition of fax and telephone reception
<b>Super Fine</b>	Enables quality transmission of very small print and line drawings
<b>Contrast</b>	Auto / light / dark
<b>Enhanced Remote Activate</b>	Transfer a fax call, answered on an extension phone, to the fax machine
<b>Delayed Timer</b>	Up to 50
<b>Quick-Scan</b>	Approximately 2.5 seconds per page A4 standard resolution
<b>Memory Transmission</b>	Up to 500 pages (ITU-T Test Chart, Standard Resolution, JBIG)
<b>Out of Paper Reception</b>	up to 500 pages (ITU-T Test Chart, Standard Resolution, JBIG)
<b>Dual Access</b>	Allows the operator to perform 2 different tasks on the machine at the same time
<b>Broadcasting</b>	Send the same fax message to up to 350 separate locations (manual 50 locations)
<b>Batch Transmission</b>	Stores documents for the same location in the machines memory for transmission in a single call
<b>Auto Reduction</b>	When receiving a single page document longer than A4 (297mm) the fax machine will automatically reduce the message to fit onto a single A4 sheet
<b>ECM (Error Correction Mode)</b>	The MFC will detect line errors during fax transmission and resend the page(s) of the document that had an error (recipient machines must share this feature for it to work)
<b>Fax Forwarding</b>	Sends a fax received in memory to another pre-programmed fax number
<b>Remote Access</b>	Allows users to remotely access their machine
<b>Fax Retrieval</b>	Allows remote access to faxes stored in the machine
<b>Remote Maintenance</b>	Allows users to maintain their MFC remotely
<b>Remote Set-up<sup>3</sup></b>	Allows users to set-up the MFC from their PC
<b>Grey Scale</b>	256 shades (8 bit) of grey are available for faxing
<b>Fax Preview</b>	Preview received faxes on the screen
<b>Fax Stamp</b>	Add the date and time to all received faxes
<b>Cover Page</b>	Create custom cover pages for outgoing faxes



**brother**  
at your side



### Working with you for a better environment

At Brother, our green initiative is simple. We strive to take responsibility, act respectfully and try to make a positive difference to help build a society where sustainable development can be achieved. We call this approach Brother Earth.

[www.brotherearth.com](http://www.brotherearth.com)