MFC-L8690CDW

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

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

Colour Printer

Print Speed Standard (A4)	Up to 31ppm (pages per minute) colour & mono
Print Speed 2-Sided (A4)	Up to 14 sides per minute (7 sheets per minute) colour & mono
Resolution	2,400dpi (2,400 x 600dpi), 600 x 600dpi
Quiet Mode	A mode to reduce the printing noise by reducing the print speed to 15ppm
FPOT (First Print Out Time)	Less than 15 seconds colour & mono from ready mode
Warm-Up Time	Less than 31 seconds from sleep mode
Print Languages	PCL6, BR-Script3 (PostScript®3™ Language Emulation), PDF 1.7, XPS 1.0
Embedded Fonts (PCL)	66 scalable fonts, 12 bitmap fonts, 16 barcodes
Embedded Fonts (Postscript)	66 scalable fonts
Embedded Barcodes (PCL)	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

Windows®	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
Macintosh[5]	Mac OS v10.10.5, v10.11.x, v10.12
Linux[5]	CUPS, LPD/LPRng (x86/x64 environment)
PostScript Universal Printer Driver	Driver for Windows® that enables you to print to any network or locally connected Brother laser printer that supports PostScript
PCL Driver	Generic PCL XL driver

Printer Functions

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

USB Host

Direct Print	Print directly from a USB flash memory drive. The supported file formats include: PDF version1.7, JPEG, Exif+JPEG, PRN (created by own printer driver), TIFF (scanned by Brother model), XPS version 1.0
Direct Scan	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

Paper Input[2]	Lower Tray – 250 sheets Multi Purpose Tray – 50 sheets Automatic Document Feeder – 50 Sheet
Paper Output[2]	Face Down - 150 sheets Face Up (Straight Paper Path) - 1 sheet

Optional Paper Handling

Paper Input[2]	250 Sheets (LT-330CL) Maximum of 3 optional trays

Media Specification

Media Types & Weights	**Standard Tray** – plain, recycled, coloured and letterhead (between 60 - 105g/m²) **Multi Purpose Tray** - plain, recycled, bond, coloured, letterhead and glossy[9] paper (between 60 -163g/m²) **2-sided Print** - plain, recycled, coloured, letterhead and glossy[9] paper (between 60 - 105g/m²) **Automatic Document Feeder** - Plain & recycled paper (between 64 - 90g/m²)
Envelope & Label Printing	Yes, from the Multi Purpose Tray: support for 10 envelopes up to 10mm total thickness
Media Sizes	**Standard Tray** - A4, Letter, A5, A5(Long Edge), A6, Executive, Legal, Folio, Mexico Legal **Multi Purpose Tray**- Width: 76.2mm to 215.9mm x Length: 127mm to 355.6mm **Automatic Document Feeder** - Width: 105mm to 215.9mm x Length: 147.3mm to 355.6mm **2-sided Print** – A4

[1] Approx declared yield value in accordance with ISO/IEC 19798
[2] Calculated with 80g/m² paper
[3] Windows® & Mac only
[4] Windows® only
[5] Optional download
[6] Must be web connected
[7] Requires Brother software
[8] 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
[9] Only a single sheet supported in the Multi Purpose Tray

Colour Scanner

Scanner Type	Duel CIS (Contact Image Sensor)
Automatic 2-Sided Scanning	Yes
Colour & Mono Scanning	Yes
Scan Speed	28ipm (images per minute) colour & mono
2 Sided Scan Speed	56ipm (images per minute) colour & mono
Scan Resolution from ADF	Up to 1,200 x 600dpi
Scan Resolution from Scanner Glass	Up to 1,200 x 2,400dpi
Interpolated Scan Resolution[7]	Up to 19,200 x 19,200dpi
Colour Depth	16, 777, 216 colour variations (24 bit)
Grey Scale	256 shades of grey (8 bit)
Standard Functions[7]	Scan to USB, E-mail, OCR, Image & File
Network Scanning	Scan to network folder (Windows® only), FTP, SFTP, Email Server[5], SharePoint & Easy Scan to Email[6]
Cloud Scanning[6]	Scan direct to Box, Dropbox, Evernote™, Google Drive™, OneDrive, Flickr, Facebook, OneNote
Scan Features	Remove Background, Skip Blank Page, ID Scan, 1 to 2 Scan, Auto Deskew from ADF, Split PDF
Scan to Microsoft Office	Scan to Microsoft® Word, Microsoft® Excel & Microsoft® PowerPoint
Scan to Searchable PDF	Scan documents to searchable PDF files
Scan to SharePoint	Scan documents directly into SharePoint
Outline & Scan[6]	Draw around items to either scan a section or remove a section from the original document
Windows® Web Services Scanning	Scan direct into Windows® (from Windows® 7 & onwards) without needing to install a scanner driver
Note Scan[6]	Scan and organise notes taken on the folding note papers

Scanner Driver

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

Address Book

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

Colour Copier

Speed – (A4)	Up to 31cpm (copies per minute) colour & mono
FCOT (First Copy Out Time)	Less than 17 seconds colour & less than 16 seconds mono from ready mode
Resolution	Up to 1,200 x 600dpi
Multi-Copying / Stack / Sort	Makes up to 99 copies of each page / Stacks or Sorts
Enlargement / Reduction Ratio	Reduce or Increase document sizes from 25% to 400% in 1% increments
N in 1 Copying	Allows the user to compress 2 or 4 pages on to a single A4 sheet
2in1 ID Copying	Allows the user to copy both sides of an ID card to a single A4 sheet
Grey Scale	256 shades of grey are available for copying
Receipt Copying	Produces clearer copies of receipts
Outline and Copy[6]	Copies or deletes areas outlined by a red pen

Mobile / Web Based Printing & Scanning

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

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Network & Security

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

PrintSmart Solution (optional)

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

Fleet Management Tools

Unattended Installer[4]	Ability to centrally deploy and customise our drivers and software
MSI Installer[4]	Modular installers that can be distributed through Active Directory®
Embedded Web Server	Web based print management software embedded onto the device
BRAdmin Professional3[4&5]	LAN/WAN management software
Driver Deployment Wizard[4]	Easily create print drivers for hassle free deployment over your network

Developers

Brother Solution Interface (BSI)	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: www.brother.eu/developers

Supplies & Accessories

Inbox Toners	Black Toner – 3,000 pages[1] Cyan, Magenta & Yellow Toners - 1,800 pages[1]
Standard Yield Toners	Black Toner (TN-421BK) 3,000 pages[1] Cyan Toner (TN-421C) 1,800 pages[1] Magenta Toner (TN-421M) 1,800 pages[1] Yellow Toner (TN-421Y) 1,800 pages[1]
High Yield Toners	Black Toner (TN-423BK) 6,500 pages[1] Cyan Toner (TN-423C) 4,000 pages[1] Magenta Toner (TN-423M) 4,000 pages[1] Yellow Toner (TN-423Y) 4,000 pages[1]
Other Supplies	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
LT-330CL	Optional 250 sheet Lower Tray
CH-1000	Card Reader Holder
Carton Contents	Toner Cartridges, Drum, Belt, Waste Toner Box, Power Supply Cord, Driver Software For Windows®, 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

Recommended Monthly	Up to 3,000 pages monthly print volume
Maximum Monthly[8]	Up to 40,000 pages monthly print volume

Dimensions & Weight

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

Environment

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

Blue Angel	Yes
Nordic Swan	Yes

Fax

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

brother at your side

Brother Earth

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

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