

High Speed Wireless Network Ready Colour Laser Multifunction Centre[®] with Automatic Duplex Print and Fax

Colour Laser Printer
Colour Laser Fax
Colour Laser Copier
Colour Scanner

CORE FEATURES

- Automatic 2-sided printing
- Automatic booklet printing feature
- Up to 28ppm standard print speed colour & mono (A4)
- Wired network (10Base-T/100Base-TX Ethernet)
- Wireless network (IEEE 802.11 b/g/n)
- Hi-Speed USB 2.0 interface
- 250 sheet lower tray paper capacity
- 50 sheet multi-purpose tray
- 35 sheet automatic document feeder
- 256MB memory
- 9.3cm TFT colour touch screen
- Support for Google Cloud Print, Apple AirPrint
- Direct print from / Scan to USB memory stick

COLOUR LASER PRINTER

- Up to 28ppm standard print speed colour & mono (A4)
- Up to 14 sides (7 sheets) per minute 2-sided print speed colour & mono (A4)
- Up to 2,400 x 600dpi resolution (2,400dpi class)
- PCL[®]6 & BR-Script3 (Postscript[®]3 Language Emulation)
- Resident fonts: 66 scaleable fonts
- Straight paper path (paper exits at back of machine)
- Recommended monthly print volume 500 to 3,000 pages



LASER FAX

- Dual Access
- 33.6kbps Super G3 modem
- Up to 500 pages out of paper reception*
- 300 Speed Dials, 20 Group Dials
- Error Correction Mode
- PC-Fax (Send & Receive**)

*(ITU-T Test Chart, Standard Resolution)

** Send only for Mac OS[®]

Colour Scanner

- 1,200 x 600dpi Scan resolution from ADF
- 1,200 x 2,400dpi Scan resolution from scanner glass
- 19,200 x 19,200dpi Interpolated scan resolution
- Scan to Email Client/ Email Server (Web Download)/ OCR/ Image/ File/ FTP/ USB/ Network
- Scan to network folder (Windows[®] only)
- TWAIN, WIA & ICA drivers available

Colour Copier

- Up to 28cpm colour & mono (A4)
- Up to 600 x 600dpi resolution
- Up to 99 multi-copies with stack and sort features
- Zoom 25% - 400% in 1% increments

General

Technology	Electrophotographic laser printer (single pass)
Processor	400MHz (StarSapphire (SS1000))
Memory	256MB memory
Brother Apps	Enjoy greater flexibility, connectivity and convenience that enhance your productivity through "Office Doc Creator", "Outline&Scan", "Outline&Copy", "NoteScan".
LDAP	Integrate with a directory server to look up contacts and e-mail addresses(Download Firmware from Brother Solutions Centre)

Control Panel

LCD display	9.3cm Colour LCD TouchScreen
Buttons	Up, Down, Home, Back, Cancel, Power On/Off

Interface

Local interface	Hi-Speed USB 2.0
Wired network interface	Built in 10Base-T/100 Base-TX Network
Wireless network interface	Wireless LAN IEEE 802.11b/g/n (Infrastructure Mode/ Adhoc mode)
Wireless setup utilities	Wi-Fi [®] Protected Setup (WPS) & AirStation One-Touch Secure System (AOSS)
Wireless support	Intel My Wi-Fi [®] Technology (vertical pairing).
Wi-Fi Direct	Print wirelessly without having to go through a wireless access point or router

USB Direct Interface

Direct print	Print directly from a USB Flash Memory Drive
Supported file formats	PDF ver1.7, JPEG, Exif + JPEG, PRN (created by Brother series printer driver), TIFF (scanned by Brother model), XPS ver 1.0
Direct scan	Scan to USB Flash Drive, JPEG/PDF (colour), TIFF/PDF (B&W)

Colour Printer

Automatic 2-Sided Printing	Yes
Print Speed – Standard (A4)	28ppm (pages per minute) colour & mono
Print Speed – Duplex (A4)	14 sides per minute (7 sheets per minute) colour & mono
Resolution	2,400dpi (2,400 x 600dpi), 600 x 600dpi
FPOT (First Print out Time)	Less than 16 seconds colour / Mono from ready mode
Warm-Up Time	Less than 36 seconds from sleep mode
Print Languages	PCL6, BR-Script3 (Postscript [®] 3™ Language Emulation)
Embedded Fonts (PCL)	66 scalable fonts, 12 bitmap fonts, 13 barcodes
Embedded Fonts (Postscript)	66 scalable fonts
Embedded Barcodes (PCL)	Code39, Interleaved 2 of5, 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)

Colour Copier

Speed – (A4)	Up to 28cpm (copies per minute) colour & mono
2-Sided Copying	Simplex Scan to Duplex Print
FCOT (First Copy out Time)	Less than 20 seconds colour & less than 18 seconds mono from ready mode
Resolution	600 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
2 in 1 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

Colour Scanner

Colour & Mono Scanning	Yes
Automatic 2-Sided Scanning	No
Scan Resolution (Optical)	1,200 x 600dpi from ADF, 1,200 x 2,400dpi from Scanner Glass
Scan Resolution (Interpolated)	19,200 x 19,200dpi
Speed	Simplex: Max.2.12/ 2.12 Sec (Mono/Colour @300dpi A4)
Colour Depth	48bit internal / 24bit external colour scanner
Grey Scale	256 shades of grey are available for scanning
Scan Key	Enables user to scan a document to: Email Client /Email Server ³ / OCR/ Image/ File/ FTP/ Network/ USB memory drive
Pull Scanning	Scan to E-mail Client, OCR, Image, File
Push Scanning	Scan to E-mail Client, Email Server ³ , USB, Network folder (Windows [®] only) & FTP

Fax

Fax Modem	33,600bps (Super G3)
Duplex Fax	Send / Receive double sided documents by fax using the double sided [duplex] scanner/printer
Internet Fax (iFax) ³	Fax documents anywhere in the world over the Internet without the use of a telephone line
PC Fax send ⁵ & receive ⁴	Sends & receives faxes direct from / to your PC (Receiving is for Windows [®] only)
Automatic Redial	Automatic redialling if the recipient fax is busy
Telephone Index	An electronic, alphabetical listing of stored speed dials and group numbers
Distinctive Ring Detection (Duet)	A service purchased from a telephone company that allows two or more telephone numbers to share a single fixed line
Fax/Tel Switch	Automatic recognition of fax and telephone reception
Super Fine	Enables quality transmission of very small print and line drawings
Enhanced Remote Activate	Transfer a fax call, answered on an extension phone, to the fax machine
Delayed Timer	Up to 50 (mono only)
Memory Transmission	Up to 500 pages (ITU-T Test Chart #1/MMR)
Out of Paper Reception	Up to 500 pages (ITU-T Test Chart #1/MMR)
Dual Access	Allows the operator to perform 2 different tasks on the machine at the same time (mono only)
Broadcasting	Send the same fax message to up to 350 locations
Batch Transmission (mono only)	Stores documents for the same location in the machines memory for transmission in a single call
Auto Reduction	When receiving a single page document more than 297mm long 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
Fax Forwarding	Sends a fax received in memory to another pre-programmed fax number or email address ³ (mono only)
Remote Access	Allows the user to remotely access their machine by using another touch tone phone
Fax Retrieval	Allows the user to retrieve fax messages using another touch tone machine (mono only)
Remote Set-up	Allows the user to set-up the MFC from their PC (Windows [®] & Macintosh)
Grey Scale	256 shades of grey are available for faxing

Specifications correct as at Tuesday, 08 April 2014 and are subject to change. Datasheet prepared by BIA.

Mobile / Web Based Printing

iPrint&Scan (Android)^{3b}
 iPrint&Scan (iPad / iPhone)³
 iPrint&Scan (Windows Phone 7/8)³
 Google Cloud Print²
 Apple AirPrint
 Web Connect³

Print directly from or scan directly to a smart phone or tablet using the "ShareWith" command
 Print JPG & PDF files, web pages and text from the clipboard directly from or scan directly to an iPad / iPhone / iPod
 Print JPG files directly from or scan directly to a smart phone running the Windows Phone 7 / 8 Operating System
 Print most common file types from any Google Cloud Print enabled application
 Print most common file types from any Apple AirPrint enabled application
 Download and Print from or Scan to Facebook, Picasa, Flickr, Google Drive, Evernote, Dropbox, Box, SkyDrive, Apps

Scanner Driver

Windows[®]
 Macintosh³
 Linux³

TWAIN & WIA (Windows[®] 8, Windows[®] 7, Windows Vista[®] & Windows[®] XP)
 TWAIN & ICA
 SANE

Printer Driver

Windows[®]

Windows 8.1[®] (32/64 bit editions), Windows 8[®] (32/64 bit editions), Windows 7[®] (32/64 bit editions), Windows Vista[®] (32/64 bit editions), Windows XP Home Edition, Windows XP Professional (32/64 bit editions), Windows Server[®] 2003 (Network only 32/64 bit editions), Windows Server[®] 2008 (Network only 32/64 bit editions), Windows Server[®] 2008 R2 (Network only), Windows Server[®] 2012 (Network only 32/64 bit editions), Windows Server[®] 2012 R2 (Network only), Windows[®] Terminal Services 2003 & 2008, Citrix Presentation Server[®], Citrix XenApp[®]
 Mac OS X 10.7.5 or greater
 CUPS, LPD/LPRng printing system (x86, x64 environment).

Apple Macintosh^{®3}
 Linux³

Printer Driver Functions

N-up printing⁵
 Poster printing⁴
 Header & footer print⁴
 Watermark printing⁴
 Duplex printing⁵
 Booklet printing⁵
 Secure print⁵
 Colour control tool⁴
 Print Profiles⁴
 Print Text In Black⁴

Save paper reducing 2, 4, 9, 16 or 25 A4 pages to 1 A4 page Windows
 Enlarge 1 A4 page into a poster using 4, 9, 16 or 25 A4 pages for a bigger impact
 Print the time & date &/or the user ID on the documents
 Add predefined text or user-defined messages to your documents as a watermark
 Print on both sides using the automatic duplex
 Print easy-to-read, professional documents in A5 booklet format using automatic duplex
 Protect your print jobs with a PIN number
 Edit the colour settings in the printer driver to get more accurate colours
 Store your favourite driver settings as profiles to easily recall them
 Converts all text in your documents to black when printed

Security Features

Setting lock
 Colour restrict⁴
 Secure function lock v3
 Secure printing with SSL
 IP filter

Lock down the control panel to stop unwanted user access
 Colour restriction tool from printer driver
 Configure individual access restrictions by user and by function
 IPP based encryption, already widely used in e-commerce to protect financial & sensitive information
 MAC address based access restriction

Network Management Utilities

Web based management
 BRAdmin Light⁵
 BRAdmin Professional 3³⁴
 BRPrint Auditor³⁴
 E-mail reports
 E-mail notifications
 Print log
 Driver Deployment Wizard³⁴

Web browser print server management
 For setup & small LAN management
 For LAN / WAN management using a Windows[®] PC
 For basic local (USB) device status and usage monitoring
 Reports containing basic usage data sent to a nominated e-mail address on a cyclical basis
 Alerts sent to a nominated e-mail address when anything which can disrupt printing activity occurs
 User level usage data recorded to either a text or csv file direct to a network folder
 A quick & easy way to deploy Brother printer drivers on a networked Windows[®] PC

Network Protocols & Security

Network protocols

IPv4

TCP/IP (IPv4 & IPv6)
 ARP, RARP, BOOTP, DHCP, APIPA(Auto IP), WINS/NetBIOS name resolution, DNS Resolver, mDNS, LLMNR responder, LPR/LPD, Custom Raw Port/Port9100, IPP/IPPS, FTP Server, TELNET Server, HTTP/HTTPS server, TFTP client and server, SMTP Client, SNMPv1/v2c/v3, ICMP, Web Services (Print), CIFS client, SNTPT client, LDAP NDP, RA, DNS resolver, mDNS, LLMNR responder, LPR/LPD, Custom Raw Port/Port9100, IPP/IPPS, FTP Server, TELNET Server, HTTP/HTTPS server, TFTP client and server, SMTP Client, SNMPv1/v2c/v3, ICMPv6, Web Services (Print), CIFS Client, SNTPT Client, LDAP

IPv6 (off by default)

Network security

Wired network security

APOP, POP before SMTP, SMTP-AUTH, SSL/TLS (IPPS, HTTPS, SMTP, POP), SNMP v3
 802.1x (EAP-MD5, EAP-FAST, PEAP, EAP-TLS, EAP-TTLS), Kerberos

Wireless network security

WEP 64/128 bit, WPA-PSK (TKIP/AES), WPA2-PSK (AES), APOP, POP before SMTP, SMTP-AUTH, SSL/TLS (IPPS, HTTPS, SMTP, POP), SNMP v3, 802.1x (LEAP, EAP-FAST, PEAP, EAP-TLS, EAP-TTLS), Kerberos

Paper Handling

Paper Input²

ADF 35 sheets
 Standard tray 250 sheets
 Multipurpose tray 50 sheets
 Optional lower tray 500 sheets x 1 (LT-320CL)
 Maximum paper input 785 sheets

Paper Output²

Standard paper output 150 sheets [face down]
 Rear exit straight paper path 1 sheet [face up]

Media Specifications

Media types

Standard & Optional trays Plain paper, thin paper, recycled paper
 Multipurpose tray Plain Paper, Thin Paper, Thick Paper, Thicker Paper, Recycled Paper, Bond, Label, Envelope, Envelope. Thin, Envelope Thick, Glossy Paper
 Plain & recycled paper (between 64 to 90 g/m²)

ADF

Media Weights

Standard & Optional trays 60 to 105g/m²
 Multipurpose tray 60 to 163g/m²
 ADF 64 to 90 g/m²

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Media Sizes

Standard & Optional trays	A4, Letter, B5 (ISO/JIS), A5, Executive, Legal, Folio
Multipurpose tray	Width 76 to 216 mm, Length 127 to 355 mm
ADF	Width: 147.3mm to 215.9mm x Length 147.3mm to 355.6mm
Duplex	A4

Supplies

Standard yield toners

Mono toner	(TN-341BK)	2,500 pages ¹
Cyan toner	(TN-341C)	1,500 pages ¹
Magenta toner	(TN-341M)	1,500 pages ¹
Yellow toner	(TN-341Y)	1,500 pages ¹

High yield toners

Mono toner	(TN-346BK)	4,000 pages ¹
Cyan toner	(TN-346C)	3,500 pages ¹
Magenta toner	(TN-346M)	3,500 pages ¹
Yellow toner	(TN-346Y)	3,500 pages ¹

Other supplies

Drum	(DR-341CL)	25,000 A4 pages (one page per job)
Belt unit	(BU-320CL)	Up to 50,000 A4 (5 page per job)
Waste toner box	(WT-320CL)	Up to 50,000 pages

Optional Accessories

500 sheet lower tray (LT-320CL)	Expanding the total paper input to 800 sheets
Memory	Memory expandable up to 512 MB, 1 DDR2 (144pin/16bit) slot (256MB) (Not available from Brother)

Dimensions & Weights (with consumables)

With Carton

Dimensions	637(W) x 545(D) x 649(H)mm
Weight	34.3 Kg

Without Carton

Dimensions	410(W) x 503(D) x 492(H)mm
Weight	29.5 Kg

Power Consumption

Printing	Average 565w
Ready	Average 65w
Sleep [WLAN = ON]	Average 9.5w
Deep Sleep	Average 1.7w
TEC value	1.79 kWh / Week

Sound Pressure Level

Printing	LpAm = 55 dB(A)
Ready	LpAm = 28 dB(A)

Sound Power Level

Printing [Colour]	LWAd = 6.71 B(A)
Ready	LWAd = 4.05 B(A)

Environment

TEC Value	1.79 kWh / Week (ENERGY STAR® version 1.1)
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
Energy Star	Yes

Duty Cycles

Recommended	500 to 3,000 pages monthly print volume
Maximum	Up to 40,000 pages monthly print volume

Contents

- Mono toner cartridge (K): up to 2,500 pages¹
- Colour toner cartridges (C, M, Y): up to 1,500 pages¹
- Drum unit: up to 25,000 pages (preinstalled)
- Waste Toner Box: up to 50,000 pages (preinstalled)
- Belt Unit: up to 50,000 pages (preinstalled)
- Power supply cord
- Driver software for Windows
- Quick Set-up Guide
- PC interface cable **NOT** included

¹ Cartridge yield is declared in accordance with ISO/IEC19798.

² Calculated with 80g/m² paper

³ Downloaded free of charge from Brother's Solutions Centre <http://support.brother.com>

⁴ Windows® only

⁵ Windows® & Apple Macintosh only

⁶ For Android devices running Android 1.6 or later and Apple devices running iOS 2.0 or later

⁷ Connection to wireless router required

⁸ Connection to internet required

