MFC-9320CW   **TN230CMYK/ DR230CL**

High Speed Wireless Colour All-in-One Printer with Fax

ENERGY STAR

WiFi

Copy

Convenient, compact and unbelievably quick both in colour and mono – this is the perfect machine if you're pushed for space. It produces professional looking colour documents easily and efficiently and can be shared by the whole office without the hassle of extra wires everywhere – bliss!

Catalogue Spec

- Space saving, reliable and fully featured colour multifunction printer makes this idea for small offices
- Fast mono and colour printout speed of 16ppm
- Easy and secure wireless connection gives you the freedom to work anywhere
- Wired network ready
- Increase efficiency with the direct print USB Host port
- Hi Speed Faxing
- High quality network colour scanning
- Time saving 35 sheet automatic document feeder
- large 250 sheet paper meaning less time spent filling the tray
- Built-in LCD screen allows PIN protected secure printing
- Energy Star certified meaning low energy usage
- 12 months warranty and lifetime telephone/ web support

Detailed Spec

General

Engine	Electrophotographic LED (single-pass)
Processor	64bit RISC VR5500 300MHz
Interface	Hi-Speed USB 2.0 / Built in 10/100 Base-TX Network
	Wireless LAN IEEE802.11b/g (Infrastructure Mode/Adhoc mode)
Security	WEP 64/128bit, WPA-PSK (TKIP/AES), WPA2-PSK (TKIP&AES), LEAP, EAP-FAST
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, IPP/IPPS, FTP Server, TELNET Server, HTTP/HTTPSserver, TFTP client and server, SMTP Client, APOP, POP before SMTP, SMTP-AUTH, SNMPv1/v2c/v3, ICMP, LLTD responder, WebServicesPrint, CIFS Client, SSL/TLS
IPv6 (Off by default)	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, APOP,POP before SMTP, SMTP-AUTH, SNMPv1/v2c/v3, ICMPv6, LLTD responder, WebServicesPrint, CIFS Client, SSL/TLS
LCD Display Size	2 lines of 16 characters with Green Back-lit Display
On-Screen Programming	Step by step prompts are displayed within the LCD in order to facilitate programming machine options and settings
Standard Memory Capacity	64MB (RAM)
Optional Memory	Expandable up to 576MB using 144 pin DIMM
Simultaneous Operation	(Print/Fax), (Print/Copy), (Print/Scan)
On / Off Switch	Yes

Colour Printer

Speed	Up to 16ppm colour & mono
Resolution	Up to 2,400x600dpi*** resolution [2,400dpi class]
First Print Out Time	Less than 16 seconds colour, 15 seconds mono
Warm Up Time	Less than 27 seconds from sleep, 37 seconds from power on
Paper Capacity** (Standard)	Up to 250 sheets can be stored in the paper tray
Output Paper Capacity**	Up to 100 sheets can be stored in the output paper tray

Colour Copier

Speed	Up to 16cpm colour & mono
First Copy Out Time (From Ready Mode)	Less than 24 seconds colour, 19 seconds mono
Resolution	Maximum 1,200 x 600 dpi
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.

Colour Scanner

Resolution (Optical)	1,200 x 2,400dpi
Resolution (Interpolated)	19,200 x 19,200dpi
Colour Depth	This model has a 48bit internal / 24bit external Colour Scanner
Grey Scale	256 shades of grey are available for copying or scanning
TWAIN Scanner Compliance	Windows® 2000 and OS X 10.3.9 or greater
WIA Scanner Compliance	Windows Vista®, Windows® XP
SANE Scanner Compliance	Linux
Scan Key	Enables user to scan a document to e-mail, Image, OCR, file.

Colour Fax

Modem Speed	33, 6kbps
Transmission Speed	2 seconds (Brother #Std resolution, JBIG)
ITU-T group compatibility	Super G3
Data Compression	MH / MR / MMR / JBIG / JPEG
Backup for clock	Up to 60hrs
Memory Backup	Up to 60hrs (only for standard memory)
Memory Security	Allows prevention of unauthorised access to the fax machine
Automatic Redial	Automatic redialling if the recipient fax is busy
One-Touch Dials	Auto dialling of a pre-stored number performed by the touch of one key, 16 locations (2 x 8)
Speed Dials	Auto dialling of pre-stored number by entry of a three digit number (300 locations)
Group Dial	A combination of up to 20 One-Touch and telephone index numbers can be stored on a One-Touch key for broadcasting
Telephone Index	An electronic, alphabetical listing of stored One-Touch, Speed Dial and Group numbers
Chain Dialling	Allows the user to store parts for long dialling sequences in different One-Touch or Speed Dial locations
Station ID	This is the stored information that appears on the top of faxed pages
FAX / TEL Switch	Automatic recognition of Fax and Telephone reception
Distinctive Ring Detection	A service purchased from the Telephone Company that allows two or more telephone numbers to share a single fixed line, the function enables the machine to provide a different ring tune for each number. (Available only for UK and Denmark)
Speaker / Ring volume	3 Steps and off
Grey Scale	256 levels
Contrast	This allows the user to change the contrast between Auto / light / dark
Delayed Timer	Up to 50

Polling	This feature enables a machine to request another machine to send information on demand
Quick-Scan (Memory Transmission)	Reduce scanning times by scanning a fax into memory before sending. Approximately 2 seconds per page
Out of Paper Reception	Up to 500 pages (ITU-T Chart/JBIG/Standard Resolution) Up to 600 pages (Brother #Chart/Standard Resolution/JBIG)
Broadcasting	Send the same fax message to up to 366 separate locations (Groups, One-Touch, Speed-Dial numbers and up to 50 manually dialled numbers)
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 between 297mm and 350mm long the fax machine will automatically reduce the message to fit onto a single A4 sheet
ECM (Error Correction Mode)	Where machines share the ECM feature, it will detect line errors during fax transmission and resend the page(s) of the document that had an error
Dual Access	Allows the user to dial a number, and begin scanning the fax into memory, even when the MFC is receiving, sending or printing a fax from memory.
Fax Forwarding	Sends a fax received in memory to another pre-programmed fax number
PC Fax Send & Receive	Sends & receives faxes direct from / to your PC. (Send only for Mac & Linux)
Remote Access	Allows the user to remotely access their machine by using another touch tone phone

Printer Driver

Windows®	Printer Driver for Windows® 2000 Professional, XP Home Edition, XP Professional (32 & 64 bit editions), Windows Server® 2003/2008 (32 & 64 bit editions), Windows Vista®
Macintosh®	Macintosh Printer Driver for Mac OS X 10.3.9 or greater
Linux	Linux printer driver for CUPS printing system(x86 , x64 environment), Linux printer driver for LPD/LPRng printing system(x86 , x64 environment).

Standard Print Language

Emulation	PCL®6 & BR-Script 3 (PostScript®3 Language Emulation)
PCL® Resident Fonts	66 scalable fonts, 12 bitmap fonts, 13 bar codes
BR-Script 3	66 Fonts

Secure Print   Print jobs can be password protected and printed only when the individual password is entered

Printer Driver Functions

N-up Printing	Reduce up to 2, 4, 9, 16 or 25 A4 pages into just one A4 page
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
Booklet Printing †	Print documents in A5 Booklet format using manual duplex
Secure Print †	Protect your print jobs with a pin number, enter the pin number at the machine to print the documents
Reprint †	Quickly reprint the last print job sent to the machine by pressing the Reprint key
Colour Restrict †	Colour restriction tool from printer driver

Network Management Utilities

BRAdmin Light	For setup and LAN management

Web Downloadable Network Management Utilities - http://solutions.brother.com

BRAdmin Professional	By web download for LAN management
Web BRAdmin	By web download for LAN/WAN management
Web Based Management	A printer and print server management through the web

USB Direct Interface

Pictbridge	Print directly from a PictBridge enabled Digital Camera
USB Direct Interface	Print & Scan directly from/to USB Flash Memory Drive
File Formats	PDF version1.7, JPEG, Exif + JPEG, PRN(created by MFC-9320CW series printer driver), TIFF(MH/ scanned by Brother model)

Paper Handling

Paper Input**	Standard Tray: 250 sheets Manual Feed Tray: 1 sheet ADF (Automatic Document Feeder) Up to 35 sheets Optional Lower Tray: N/A
Paper Output**	Face Down: 150 sheets Face Up: 1 sheet
Manual Duplex	Yes

Media Specifications

Media Types	Standard Tray: Plain paper, Thin Paper, Recycled Paper Manual Feed Slot: Plain paper, Thin Paper, Thick Paper, Recycled Paper, Bond, Label, Envelope
Media Weights	Standard Tray: 60 – 105g/m² Manual Feed Slot: 60 – 163g/m²
Media Sizes	Standard Tray: A4, Letter, ISOB5, A5, A5(Long Edge), ISOB6, A6, Executive, Legal, Folio Manual Feed Slot: Width (76.2 – 220mm) x Length (116.0 x 406.4)

List / Report

Help List	By using the reports option, a list of basic operational steps and functions can be printed
System Set-up List	A printed report that shows the current setting of your machine.
Order form	An accessories order form can be printed for you to send to your Brother dealer by using the reports option and selecting Order Form

Page Counters - *Available to view in LCD or print*

Total Print Pages	Informs the user of the total number of all pages produced from this machine
Copy Pages	Informs the user of the total number of copies made on this machine in pages
PC Print Pages	Informs the user of the total number of PC prints from this machine
Report Pages	Informs the user of the total number of reports printed on this machine in pages

List / Report

Journal Report	Lists information about the last 200 incoming and outgoing faxes
TX (Transmission) Verification Report	Reports transmission details after each fax is sent
Electronic Cover-page	Generates a cover page at the recipient's machine
Help List	By using the reports option, a list of basic operational steps and functions can be printed
Quick Dial list	Lists names and numbers stored in One-Touch and Speed Dial memory, in numerical or alphabetical order
Caller ID List	A printed report that shows a list of caller ID's the machine has received.
System Set-up List	A printed report that shows the current setting of your machine.
Order form	An accessories order form can be printed for you to send to your Brother dealer by using the reports option and selecting Order Form.

Page Counters - *Available to view in LCD or print*

Total Print Pages	Informs the user of the total number of all pages produced from this machine
Copy Pages	Informs the user of the total number of copies made on this machine in pages
PC Print Pages	Informs the user of the total number of PC prints from this machine
Fax RX and Report Pages	Informs the user of the total number of faxes received and reports printed on this machine in pages

Supplies

Mono Toner (K)	TN-230BK: Standard yield of 2,200*
Colour Toners (C,M,Y)	TN-230C: Standard yield of 1,400*
	TN-230M: Standard yield of 1,400*
	TN-230Y: Standard yield of 1,400*
Drums	DR-230CL: 15,000 A4 pages (one page per job) (4 separate drums 1 each for CMYK)
	DR-230CL-BK:15,000 A4 pages (one page per job) (1 separate drum for BK)
	DR-230CL-CMY: 15,000 A4 pages (one page per job) (1 separate drum for either CMY)
Belt Unit	BU-200CL: Up to 50,000 A4 (one page per job)
Waste Toner Box	WT-200CL: 50,000 Pages @ 5% coverage for CMYK each

The frequency of replacement of consumables will vary depending on the complexity of the prints, the percentage of coverage, paper size, page per job, and the type of media.

Dimensions & Weights

With carton & consumanbles	743 (W) x 592 (D) x 575 (H) mm, 29Kg
Without carton, with consumanbles	428 (W) x 491 (D) x 401 (H) mm, 22.9Kg

Power Consumption

Copying	Average 480w at 25c
Ready	Average 75w at 25c
Sleep	Average 12w at 25c

Sound Pressure Level

Copying	Less than 53 dB
Ready	Less than 30 dB

Sound Power Level

Copying	Less than 6.5 BA
Ready	Less than 4.8 BA

Ecology

Power Saving	This enables the machine 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	Certified to the world-wide eco label for power consumption.

Duty Cycles

Recommended	300 – 1,500 pages monthly print volume
Maximum	25,000 pages monthly print volume

Optional Accessories

	Memory expandable up to 576MB total using standard 144pin DIMM cards (Not available from Brother)

*	Approx. yield is declared in accordance with ISO/IEC19798.
**	Calculated with 80g/m² paper
†	Windows® only