

# Rugged Mobile Receipt and Label Printers Series



*RJ Series*



**Empower  
mobile workforce  
with labels  
creation and  
amendment  
at any location**

Brother's comprehensive range of RJ mobile printers can deliver impressive print speed with rugged design, robustness and superior quality that are design to suit a wide range of vertical market applications.

Equipped with Bluetooth, Wi-Fi and USB connectivity options, busy mobile workers can print their receipts or labels on-site or in field which will achieve productivity.



## RJ Series mobile printers



### Rugged design

Due to the nature of many mobile applications, mobile printers may be exposed to a range of outdoor conditions which can affect the print operation or cause damage, for example, a Traffic warden printing in the field.

All RJ mobile printers are tested against IP54 protection standards which offer extra peace of mind for extreme outdoor applications subjected to damp, moisture or indoor environments where dust is present. RJ mobile printers are dropped and tested up to 2.5 metres which provide additional credibility in terms of toughness and reliability.



**RJ Series**

## Up to 2 inch



RJ-2030



RJ-2050



RJ-2140



RJ-2150

## Up to 3 inch



RJ-3230BL



RJ-3250WBL

## Up to 4 inch



RJ-4230B



RJ-4250WB

# Trust RJ Mobile Printers Series for every application

## Retail

Increase efficiency for retailers with lightweight, durable and easy-to-use RJ mobile printers.

This mobile solution can provide staff with a simple and accurate label and receipt printout that is perfect for pricing, promotions and queue-busting situation that can help to increase customers' satisfaction.



### Applications include:

- Shelf edge labels
- 'Queue busting' receipt printing
- Mark down or discount labels
- Price labels
- Food traceability labelling
- Click and collect labels



## Direct Store Deliveries

Delivery drivers can be equipped with a seamless solution to help streamline their workflow and minimise downtime.

Mobility and integration are the keys for drivers to access their systems for pricing, invoicing, inventory control which will help to increase their customers' satisfaction.

This mobile solution will make producing invoices on-site easy.



### Applications include:

- Sales orders and confirmations
- Returned goods receipts and labels
- Customers' receipts
- Delivery receipts



## Field Services

Without a mobile printing solution, manually handwritten documents can be very time-consuming to produce and prone to error.

That is why most businesses are empowering their workforce with mobile technology to complete their tasks on the move, professionally and on schedule.



### Applications include:

- Receipts and invoices
- Repair estimates
- Statements of work
- Work orders
- Estimates and quotations
- Maintenance and service reports



## RJ Series

### Public Safety

Increase operational efficiency by allowing law enforcement officers and emergency staff to document and report incidents more accurately and efficiently at the point of interaction.

With RJ mobile printers' durable design, fast print speed and reliable operation, superior performance can be achieved which will help to increase productivity.



#### Applications include:

- Parking violations
- Recording of accidents and crime scenes
- Electronic citations and fines
- Warning Notices

### Warehousing

Efficient warehousing operations and workers' productivity are critical to the success of many companies.

With wireless connectivity, RJ mobile printers series can provide workers with the ability to print barcode labels on-demand at the point of application.

This will help to save time and reduce potential errors caused by mis-labelling.



#### Applications include:

- Work-in-progress labels
- Bin and shelf labels
- Shipping and dispatch labels
- Inventory pick and return tickets



# RJ series range

	RJ-2030	RJ-2050	RJ-2140	RJ-2150
	<b>2 inch</b>			

## Printing

Print technology	Direct thermal			
Print speed	Maximum 152mm per second (6ips)			
Resolution	203dpi			
Maximum print width	54mm (receipt)		54mm (receipt), 51mm (label)	

Receipt	●	●	●	●
Labels			●	●

## Connectivity

USB	●	●	●	●
Wireless LAN		●	●	●
Bluetooth	●	●		●
AirPrint		●	●	●
MFi		●		●

## General

IP rating	IP54			
Drop protection (metres)	2.5m			
Weight (with battery)	465g		545g	
Dimensions (mm)	122mm (W) 57mm (H) 100mm (D)		151mm (W) 73mm (H) 100mm (D)	
Operating system support	Microsoft® Windows® 7 Windows® 8 Windows® 8.1 Windows® 10	Microsoft® Windows® 7 Windows® 8 Windows® 8.1 Windows® 10 Windows® Server 2008, 2008 R2, 2012, 2012 R2, 2016, 2019		
Mobile OS	Android™	Android™ / iOS®		
Supported commands	P-touch Template, ESC/P, Raster, ZPL II emulation, CPCL emulation			

# RJ series range

RJ-3230BL	RJ-3250W/BL	RJ-4230B	RJ-4250WB
3 inch		4 inch	

## Printing

Print technology	Direct thermal		
Print speed	Maximum 127mm per second (5ips)		
Resolution	203dpi		
Maximum print width	72mm	104mm	

## Media Types

Receipt	●	●	●	●
Labels	●	●	●	●

## Connectivity

USB	●	●	●	●
Wireless LAN		●		●
Bluetooth	●	●	●	●
AirPrint		●		●
MFi	●	●	●	●

## General

IP rating	IP54		
Drop protection (metres)	2.0	2.1	
Weight (with battery)	807g	850g	
Dimensions (mm)	117mm (W) 77mm (H) 180mm (D)	153mm (W) 68mm (H) 159mm (D)	
Operating system support	Microsoft® Windows® 7, 8.1, 10 Windows® Server 2012, 2012 R2, 2016, 2019	Microsoft® Windows® 7 Windows® 8 Windows® 8.1 Windows® 10  RJ-4250WB also supports: Microsoft® Windows Server® 2008 / 2008 R2 / 2012 / 2012 R2 / 2016	
Mobile OS	Android™ / iOS®		
Supported commands	P-touch Template, ESC/P, Raster, ZPL II emulation, CPCL emulation		



**Customise  
RJ Mobile Printer  
with a range of  
accessories**



# Accessories and Print supplies

Brother has designed and engineered a wide range of accessories to customise solution to suite customers' requirement. Brother accessories can help workers to be equipped with their device in-vehicle and on-body. Power options can help to cope up with any increase battery demands.

## Power Options

### PA-BT-003

Rechargeable  
Li-ion Battery

RJ-2030 | RJ-2050  
RJ-2140 | RJ-2150



### PA-BT-006

Rechargeable  
Li-ion Smart  
Battery

RJ-3230BL | RJ-3250WBL  
RJ-4230B | RJ-4250WB



### PA-AD-600A UK

AC Power Adapter

RJ-2030 | RJ-2050  
RJ-2140 | RJ-2150  
RJ-3230BL | RJ-3250WBL  
RJ-4230B | RJ-4250WB



### PA-CD-600CG

Car Adapter (cigarette)

RJ-2030 | RJ-2050  
RJ-2140 | RJ-2150  
RJ-3230BL | RJ-3250WBL  
RJ-4230B | RJ-4250WB



### PA-CD-600WR

Car Adapter (wired)

RJ-2030 | RJ-2050  
RJ-2140 | RJ-2150  
RJ-3230BL | RJ-3250WBL  
RJ-4230B | RJ-4250WB



### PA-BEK-001WR

Battery Eliminator  
Kit Wired Type

RJ-3230BL | RJ-3250WBL  
RJ-4230B | RJ-4250WB



### PA-BEK-001CG

Battery Eliminator Kit  
Cigarette Socket Type

RJ-3230BL | RJ-3250WBL  
RJ-4230B | RJ-4250WB



# Accessories

## PA-BC-002

Battery Charger  
(Single unit)

RJ-2030 | RJ-2050  
RJ-2140 | RJ-2150



## PA-BC-003

Battery Charger  
(Single unit)

RJ-3230BL | RJ-3250WBL  
RJ-4230B | RJ-4250WB



## PA-CR-005\*\*

1-slot Charging  
Cradle with Ethernet

RJ-3230BL | RJ-3250WBL



## PA-CR-002A\*\*

Car Mount /  
Charging Cradle

RJ-4230B | RJ-4250WB



## PA-SS-4000

Shoulder Strap

RJ-2030 | RJ-2050  
RJ-2140 | RJ-2150  
RJ-3230BL | RJ-3250WBL  
RJ-4230B | RJ-4250WB



## PA-4CR-003\*\*

4-slot Charging  
Cradle with Ethernet

RJ-3230BL | RJ-3250WBL



## PA-LPR-001

Linerless  
Platen Roller

RJ-4230B | RJ-4250WB



## PA-LPR-004

Linerless  
Platen Roller

RJ-3230BL  
RJ-3250WBL



## PA-LP-007

Peeler

RJ-3230BL  
RJ-3250WBL



Brother provides all the necessary tools required for software developers to integrate printing into their mobile applications.

Printer drivers are available for Windows® OS and Software Development Kits. RJ mobile printers support Windows® Mobile\*, Android™ and iOS® operating system.

## Software Support Features

### Template mode

Design required document on Windows® PC with logos and barcodes. Stored in RJ mobile printer's memory after transferred.

Templates can be recalled and data replaced before printing in just a few short commands.

### AirPrint®\* and MFi\* support

Easy to connect and print from Apple® devices via AirPrint® and MFi support.





### Mobile Deploy\*

Cloud-based app for mobile devices running on iOS® and Android™ platforms allows IT administrators to remotely update and configure multiple Brother RJ mobile printers.

Use Mobile Deploy to easily upload new update packages to an online location and share the URLs with the users.

<https://support.brother.com/g/s/es/dev/en/index.html>

### Printer Commands\*

With support for ZPL II emulation, CPCL emulation in addition to the ESC-POS commands, developers can easily integrate mobile printing into any existing legacy systems.



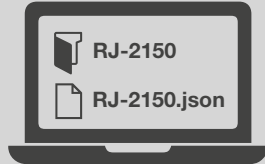
\* Check model compatibility

# Mobile Deploy



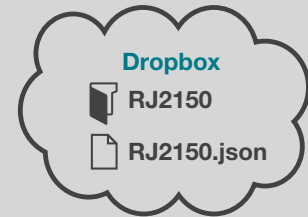
## Work of an administrator

1. Prepare the files



Personal Computer

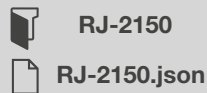
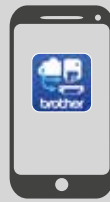
2. Put the files in Dropbox



## Work of Operators

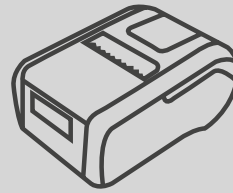
3. Introduce the procedure via e-mail.

4. Perform multiple settings via batch with Mobile Deploy (after downloading the files from Dropbox and transmit the bif files to the mobile printer).



Mobile device

(iPhone/iPad, Android™)



bsr16act.bif

RJ-2150\_58mm.bif

Printer

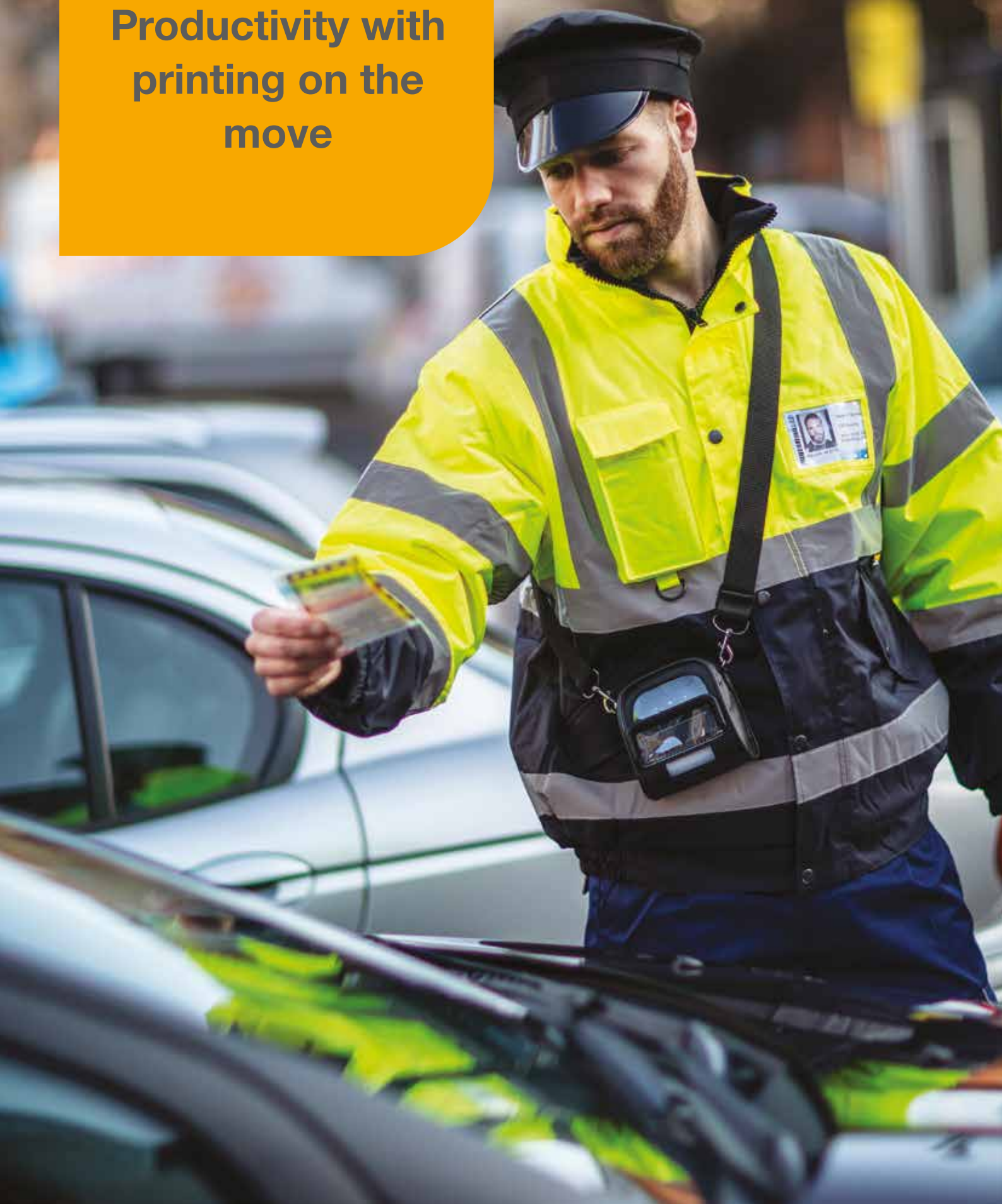
More information can be found here:



Compatible models: RJ-2000 Series, RJ-3200 Series, RJ-4200 Series, PJ-763, PJ-763MFi, PJ-773



**Achieve  
Productivity with  
printing on the  
move**



# RJ series range

## 2 inch

RJ-2030	RJ-2050	RJ-2140	RJ-2150
<b>2 inch</b>			

### Printing / Media

Print technology	Direct thermal		
Print resolution	203dpi		
Print speed	Maximum 152mm per second (6ips)*		
Maximum print width on receipt	54mm		
Maximum print length	1000mm		
Media sensor type	Reflective	Transmissive / Reflective	
Cutter type	Tear bar		
Media types	Receipt, label**	Receipt, label, tag label	
Receipt width	58mm max		
Receipt paper thickness	2.3 - 3.5 mils (0.058 - 0.090mm)		
Label width	-	55mm	
Label thickness	-	3.1 - 6.7 mils (0.080 - 0.170mm)	
Roll diameter	40mm max	60mm max	
Core diameter (minimum)	10.2mm		

### LCD

Type	Backlit monochrome LCD
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### Connectivity

USB	USB v2.0 full-speed (mini-B connector)		
Bluetooth	v2.1+EDR		
Bluetooth profiles	SPP (Serial Port Profile) OPP (Object Push Profile) BIP (Basic Imaging Profile) HCRP (Hard Copy Cable Replacement Profile)	SPP (Serial Port Profile) OPP (Object Push Profile) BIP (Basic Imaging Profile) HCRP (Hard Copy Cable Replacement Profile) iAP supported	
MFfi support	-	Yes	Yes
Wireless LAN	-	IEEE802.11b/g/n Infrastructure mode: [b/g/n] Ad hoc mode: [b/g/n] Wireless direct mode: [g/n]	
Wireless LAN security (Ad hoc mode)	-	None / WEP	
Wireless LAN security (Infrastructure mode)	-	None/WEP64/WEP128  Common key authentication (WEP) WPA/WPA2-PSK (TKIP+AES) LEAP (CKIP) EAP-FAST (TKIP/AES) PEAP (TKIP/AES) *3 EAP-TLS (TKIP/AES) EAP-TTLS (TKIP/AES)	
Wireless LAN security (Wireless direct mode)	-	None / WPA2-PSK (AES) / WEP	
NFC	-		

\* Under Brother standard environment

\*\* With black mark only



RJ-2030

RJ-2050

RJ-2140

RJ-2150

2 inch

## Software / Firmware

Operating system support

Microsoft®  
Windows Vista®/  
Windows® 7 /  
Windows® 8 /  
Windows® 8.1 /  
Windows® 10,  
Android™ 4.0.3 or  
higher (SDK)

Microsoft® / Windows Vista® /  
Windows® 7 / Windows® 8 /  
Windows® 8.1 / Windows® 10,  
Windows® Server 2008, 2008 R2, 2012,  
2012 R2, 2016, 2019  
Android™ 4.0.3 or higher (SDK)  
iOS® 6 or higher (SDK)

SDK availability

(<https://support.brother.com/g/s/es/dev/en/index.html>)

b-PAC (for Windows®)  
Android™ 4.0.3 or higher (SDK)  
iOS® 6 or higher (SDK)

Supported printer commands

ZPLII emulation, CPCL emulation  
ESC/P, P-touch Template, Raster

Barcode symbologies

CODE39 / ITF (I-2/5) / EAN-13 / EAN-8 / UPC-A / UPC-E / CODABAR / CODE128 /  
GS1-128(UCC/EAN-128) / RSS symbols / CODE93 / POSTNET / UPC/EAN EXTENSION /  
MSI /  
QR Code (model 1, model 2, micro QR) / PDF417 (Standard, Truncate, MicroPDF417) /  
Data Matrix (ECC200 Square, ECC200 Rectangular) / MaxiCode / Aztec

## Memory

RAM

32MB

Flash

32MB (12MB available for template upload)

## Environmental

Drop protection

2.5m

Sealing

IP54

Operating temperature

Operating: -10°C to 50°C / Charging: 0°C to 40°C

Operating humidity

10% - 90% / Maximum wet bulb: 27°C (no condensation)

Storage temperature

-20°C to 60°C for 120 hours maximum

Storage humidity

45°C @ 95% for 120 hours maximum

## Power

Battery

Rechargeable Li-ion

AC Power adapter

100 - 240V AC (50 / 60Hz) to 15V DC (only for charging) (optional)

Car adapter (optional accessory)

12V DC (only for charging)

## Weights / Dimensions

Dimensions (mm)

122mm (W) x 57mm (H) x 100mm (D)

151mm (W) x 73mm (H) x 100mm (D)

Weight (including battery)

465g

545g

## Package content

Included in the box

Battery, belt clip, documentation

# RJ series range

## 3 and 4 inch

RJ-3230BL	RJ-3250WBL	RJ-4230B	RJ-4250WB
3 inch		4 inch	

### Printing / Media

Print technology	Direct thermal		
Print resolution	203dpi		
Print speed	Maximum 127mm per second (5ips)		
Maximum print width on receipt	72mm	104mm	
Maximum print length	3000mm		
Media sensor type	Transmissive / Reflective		
Cutter type	Double tear bar		
Media types	Receipt / Label / Tag label		
Receipt width	80mm	113mm	
Receipt paper thickness	2.2 mil to 3.5 mil (0.058mm to 0.090mm)		
Label width	76mm	113mm	
Label thickness	-	3.1 mil to 6.6 mil (0.080mm to 0.170mm)	
Roll diameter	66mm max	58mm max	
Core diameter	Standard : 25.4mm (Default) In-box: 12.7mm - 13.0mm or 19.0mm		12.7mm (receipt) / 25.4mm (labels)

### LCD

Type	Monochrome		
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### Connectivity

USB	Yes (USB-C)		Yes
USB host capability	No		-
Bluetooth	v5.0		v4.2
Bluetooth profiles	SPP (Serial Port Profile) OPP (Object Push Profile) HCRP (Hard Copy Cable Replacement Profile) iAP supported Low Energy: GATT		Classic: SPP (Serial Port Profile) OPP (Object Push Profile) HCRP (Hard Copy Cable Replacement Profile) iAP supported Low Energy: GATT
MFi support	Yes		
Wireless LAN	-	IEEE802.11a/b/g/n/i/r Infrastructure mode: IEEE802.11a/b/g/n/i/r Wireless Direct mode: IEEE802.11g/n/d/i	Wireless LAN IEEE802.11 [a/b/g/n] (Infrastructure mode: [a/b/g/n] / Wireless direct mode: [g/n])
Wireless LAN security (Ad hoc mode)	-	-	-
Wireless LAN security (Infrastructure mode)	-	SSL/TLS1.0/1.1/1.2 (HTTPS, IPPS) SNMPv3, 802.1x (EAP-FAST, PEAP, EAP-TLS, EAP-TTLS) WEP 64/128 bit, WPA-PSK (TKIP/AES), WPA2-PSK (AES), WPA3-SAE (AES)	Open system (None/ WEP64/WEP128) Common key authentication (WEP) WPA/WPA2-PSK (TKIP+AES) EAP-FAST (TKIP/AES) PEAP (TKIP/AES) *3 EAP-TLS (TKIP/AES) EAP-TTLS (TKIP/AES)
Wireless LAN security (Wireless direct mode)	WPA2-PSK (AES)		WPA2-PSK (AES)
NFC	Yes (Passive only)		

\* Black mark only

RJ-3230BL

RJ-3250WBL

RJ-4230B

RJ-4250WB

3 inch

4 inch

## Software / Firmware

Operating system support

Visit: <https://support.brother.com>  
for latest OS support

Microsoft® Windows® 7, 8.1, 10  
Windows® Server 2012, 2012 R2,  
2016, 2019

Microsoft®  
Windows Vista® /  
Windows® 7 /  
Windows® 8 /  
Windows® 8.1 /  
Windows® 10

Microsoft® Windows  
Vista® / Windows® 7  
Windows® 8 /  
Windows® 8.1 /  
Windows® 10 /  
Microsoft®  
Windows  
Server® 2003 /  
2008 / 2008 R2 /  
2012 / 2012 R2

SDK availability

(<https://support.brother.com/g/s/es/dev/en/index.html>)

Android™ v6 - v11  
iOS® v10 - v14

Android™ 4.0.3 or later  
iOS® 7 or later

Supported printer commands

Raster, ESC/P, P-touch Template, ZPL II  
emulation, CPCL emulation

Barcode symbologies

Supported barcodes depend on printer commands.  
Please refer to the command reference for details.

CODE39, CODE93, ITF(I-2/5),  
EAN-8, EAN-13, UPC-A, UPC-E,  
CODABAR(NW-7), CODE128,  
GS1-128(UCC/EAN-128), GS1 DataBar  
(Standard, Truncated, Stacked, Stacked  
Omnidirectional), GS1 DataBar  
Limited, GS1 DataBar Expanded  
(Standard, Stacked), POSTNET,  
UPC/EAN EXTENSION, MSI,  
Intelligent Mail Barcode, QR Code,  
Micro QR Code, PDF417, MicroPDF417,  
MaxiCode, DataMatrix, Aztec

Linear: CODE 39, ITF(I-2/5),  
EAN-8, EAN-13, UPC-A, UPC-E, UPC/EAN  
EXTENSION CODABAR, CODE 128, GS1-128  
(UCC/EAN 128), POSTNET, GS1 Databar  
(Omnidirectional / Truncated / Stacked /  
Stacked Omnidirectional / Limited /  
Expanded / Expanded Stacked) CODE93,  
MSI/Plessey Intelligent Mail Barcode

2-dimensional: QR Code (model 1,  
model 2, micro QR), Maxi code, PDF417  
(Standard, Truncate) MicroPDF417,  
Data Matrix (Square, Rectangular)  
AztecCode

## Memory

RAM	256MB	
Flash	128MB	64MB

## Environmental

Drop protection	2 metres	2.1 metres
Sealing	IP54	
Operating temperature	Operate: -20°C to 55°C Charging: 0°C to 40°C	Battery: -20°C to 55°C AC Power adapter: -10°C to 40°C. Car adapter: -10°C to 50°C
Operating humidity	10% to 90% non-condensing	10% - 90%, Max wet bulb: 27°C (No condensation)
Storage temperature	-20°C to 60°C	-20°C to 60°C
Storage humidity	10% - 90% non-condensing	10% - 90%, Max wet bulb: 45°C (No condensation)

## Power

Battery	Rechargeable Li-ion smart battery	Rechargeable Li-ion smart battery (optional)
AC Power adapter	AC Power adapter (15V) only for charging (optional)	AC Power adapter (15V) only for charging (50 / 60Hz) (optional)
Car adapter (optional accessory)	Cigarette car adapter or Wired type (12V (DC)) only for charging	

## Weights / Dimensions

Dimensions (mm)	117mm (W) x 77mm (H) x 180mm (D)	153mm (W) x 68mm (H) x 159mm (D)
Weight (including battery)	807g	850g

## Package content

Included in the box	Belt Clip Li-ion battery Roll Holder Stop Media discs Documentation	Printer Belt clip Adjuster guide lockers
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**brother**  
at your side