Professional 4 inch desktop thermal printers

TD4 Series

brother.co.uk/labelling/td-labeller

Versatile, high-resolution desktop printers

Brother's range of TD professional thermal printers allows you to print high quality labels on demand, whatever the requirement. Printing labels up to 4 inches in width, using direct thermal and thermal transfer print technology, they fit the requirements of a large range of market applications.

TD professional desktop thermal printers

Seamless integration

Brother's new high specification 4 inch desktop label printers bring you improved operational efficiency with easy to use, high speed and continuous label printing. Combined with seamless integration and modular design, print from virtually anywhere in the workplace. Supporting a variety of printer command languages including ZPL II emulation allows you to integrate into existing legacy systems.
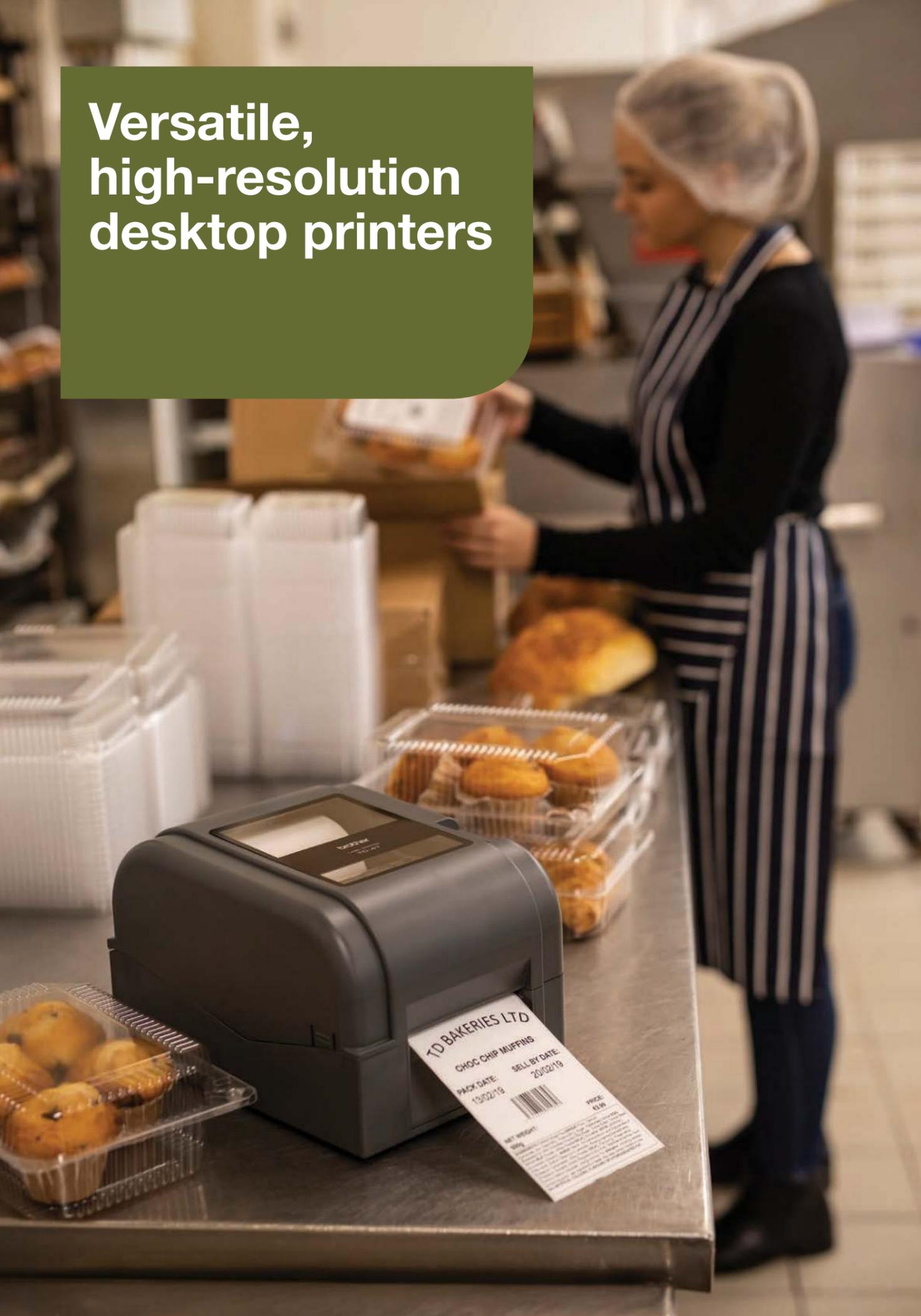
Professional label printing

Labels are often required to display a considerable amount of important information, so you need a printer that can put it all together efficiently, with consistent, high-quality results.

The TD series of desktop thermal printers offers direct thermal and thermal transfer high speed printing, at up to 300dpi resolution. Options include a peeler or automatic cutter, for producing continuous media to your required length on demand.

The software supports barcode printing, embellish font programming for highlighting specific words, and also allows you to import graphics and date formats for a truly personalised solution.

Healthcare, medical and laboratory

With the strict regulations on the tracking of patient specimens and other items within the healthcare industry, clear, high quality labelling is essential to maintain safety and traceability.

Direct thermal print technology

Low-cost, high-volume labels can be created using a heat-sensitive coating and thermal print head, meaning traditional printing ribbons and ink are not required. Ideal for less permanent labelling uses.

Thermal transfer print technology

Crisp, durable printing is achieved through a process in which the ink is absorbed into the label, making it ideal for applications that require robust, longer lasting labels.

Applications include:

• Appointment cards
• Admission labels
• Specimen and pathology labels
• Blood bag labels
• Laboratory labels
• Microbiology labels
• Dosage/drug bag labels.

Warehousing and logistics

Retail

Efficient warehousing operation and worker productivity are critical to the success of many companies. With the most common sizes of shipping labels available and the ability to create custom size labels, there are many uses for these models in the warehouse.

Applications include:

- Shipping labels
- Carton labels
- Location labels
- Pallet identification labels
- Quality control labels
- Compliance labels.

Easy to read labels are essential for consumers to help make informed decisions prior to purchase. The high print resolution and high quality labels used in this range ensure that every output printed looks professional, offering sharp text, logos and barcodes with a high contrast to ensure faultless scanning at the checkout.

Applications include:

- Pricing labels
- Barcode labels
- Pre-packaged food ingredients labels
- Nutrition information labels
- Shelf-edge labels
- Price markdown labels.

TD Range
brief summary

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
	4 Inch					
Printing						
Print technology	Direct thermal				Thermal transfer/ direct thermal	
Print speed	203mm/sec	152mm/sec			152mm/sec	105mm/sec
Resolution	203dpi	300dpi			203dpi	300dpi
Max. print width	104.1mm	108.4mm			108mm	105.7mm
Min. print length	Continous: 6.4mm, peeler: 12.7mm, cutter: 20mm, tear: 27mm				Peeler: 25.4mm, cutter: 25.4mm tear: 50mm	
Max. print length	3000mm				25,400mm	11,430mm
Media sensor type	Gap (transmissive), bar (reflective)					
Media sensor location	Gap (fixed), reflective (adjustable)					
Tear off release mode	Standard: continuous, tear off Optional: peeler, cutter					
Connectivity						
USB	●	●	●	●	●	●
Serial	●	●	●	●	●	●
Wired LAN		●	●	●	●	●
USB host port				●	●	●
Bluetooth				●		
Wireless LAN				●		
General						
Dimensions (mm)	180(w) x 224(d) x 155(h)				204(w) x 280(d) x 177.5(h)	
Weight	2.08kg				2.5kg	
Control panel	3 button 3 LED			7 button 3 LED	1 button 1 LED with 3 colours	
LCD				●		
Operating system support	Windows 7/8/8.1/10 Linux	Windows 7/8/8.1/10, Windows Server 2008/2008R2/2012/2012R2/2016 Linux			Windows 7/8/8.1/10, Windows Server 2008/2008R2/ 2012/2012R2/2016 OS X 10.10.x,10.11.x macOS 10.12.x, 10.13.x, 10.14.x Linux	
Supported commands	P-touch Template, ESC/P, Raster, ZPL II emulation, CPCL emulation					

TD-4D Accessories
and consumable supplies

Brother has designed and engineered a wide range of accessories to help customise your labelling solution. Brother accessories help users equip their device to cope with the specific requirements of use.

TD-4T Accessories
and consumable supplies

TD-4D Additional options

PA-LP-002	**PA-CU-001**	**PA-HU2-001**	**PA-HU3-001**	**PA-PR2-001**	**PA-PR3-001**
Label peeler	**Cutter**	**Thermal print head (203dpi)**	**Thermal print head (300dpi)**	**Platen roller (203dpi)**	**Platen roller (300dpi)**
TD-4410D TD-4420DN TD-4520DN TD-4550DNWB	TD-4410D TD-4420DN TD-4520DN TD-4550DNWB	TD-4410D TD-4420DN	TD-4520DN TD-4550DNWB	TD-4410D TD-4420DN	TD-4520DN TD-4550DNWB

TD-4T Additional options

PA-LP-003	**PA-CU-002**	**PA-RH-001**
Label peeler*	**Full and partial cutter***	**External roll holder**
TD-4420TN TD-4520TN	TD-4420TN TD-4520TN	TD-4420TN TD-4520TN

* Dealer option

TD-4D Consumables

RD rolls	Size	Label quantity	Colour	Item no
Continuous receipt roll	102mm x 27.7m	n/a	White	RD-M01E5
Continuous receipt roll	76mm x 35.3m	n/a	White	RD-P08E5
Continuous receipt roll	58mm x 86m	n/a	White	RD-S07E5
Continuous receipt roll	58mm x 12m	n/a	White	RD-R03E5
Continuous label roll	102mm x 44.7m	n/a	White	RD-S01E2
Die-cut labels roll	102mm x 50mm	843	White	RD-S03E1
Die-cut labels roll	102mm x 152mm	72	White	RD-M03E1
Die-cut labels roll	102mm x 152mm	281	White	RD-S02E1
Die-cut labels roll	76mm x 26mm	1564	White	RD-S04E1
Die-cut labels roll	76mm x 44mm	335	White	RD-P09E1
Die-cut labels roll	51mm x 26mm	1564	White	RD-S05E1
Die-cut labels roll	51mm x 26mm	450	White	RD-Q04E1

Software, support and features

Mobile Deploy

Mobile Deploy is a cloud-based app that performs a complete printer configuration using a smart phone or tablet. The update process is easy. With a simple push of a button by the printer operator, Mobile Deploy transfers the full update and configuration. Companies can now maintain and update their entire fleet of Brother mobile printers simultaneously and instantaneously with a click of a button!

Simple setup
Simply install the app on the devices and load the URL provided by your administrator.

Simultaneous distribution
Post once and all printers in the field get updated.

Auto update check
The app automatically checks for updates that have been posted.

Complete updates
Firmware, settings, fonts, and templates can all be updated.

1. Prepare files

2. Put files in Dropbox

Work of the administrator

Personal computer

TD-4550DNWB
TD-4550DNWB.json

Dropbox

TD-4550DNWB
TD-4550DNWB.json
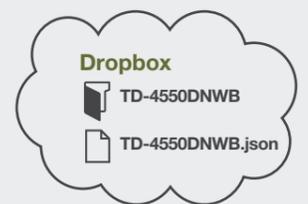
Work of the operators

3. Introduce the procedure by e-mail

4. Perform multiple settings in one batch with Mobile Deploy (after downloading the files from Dropbox, transmit the bif files to the printer).
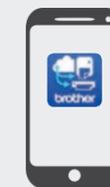
Mobile device
(iPhone/iPad, Android™)

TD-4550DNWB
TD-4550DNWB.json

Printer

bsr16act.bif
TD-4550DNWB_58mm.bif
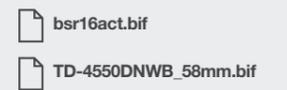
More information can be found here:

Compatible models: RJ-2000 series, RJ-3000 series, RJ-4200 series, PJ-763, PJ-763MFi, PJ-773, TD-4D range

With label design apps for desktop PCs and mobile devices, and SDKs to integrate the TD range into your own applications, you can choose the best option for your label printing needs.

Brother provides all the necessary tools required for software developers to integrate printing into their applications. Printer drivers are available for Windows OS, and Software Development Kits can be provided to support Windows Mobile*, Android and iOS operating systems.

Software, support and features

P-touch Editor

Supplied as standard, you can create your own custom labels with pixel precision by using this powerful software solution. With features such as support for over 15 barcode protocols, advanced image dithering to print high quality grayscale images, and the ability to link to data contained in Excel spreadsheets for batch printing of labels, any label design is possible.

Crop function

Built into the Windows driver, this function helps take away the inconvenience of using A4 sheets of labels in your standard printer. This clever feature automatically scans through the document and where a barcode is present it extracts shipping or product labels one at-a-time, then prints individually on the Brother label printer.

Template mode

Design the required document on your Windows PC, including logos and barcodes. Once transferred and stored in the printer's memory, the template can be recalled and any data replaced, before printing with just a few short commands.

Printer commands

With support for ZPL II emulation and a variety of additional printer command languages, developers can easily integrate printing into existing legacy systems (see specification tables for further details).

Software Development Kits (SDKs)

Brother can also supply a selection of free of charge SDKs to give you an easy method of incorporating label printing directly from within your own software programs. Available from: **https://www.brother.eu/developer**

Compatibility may vary dependent on model - check table below

Software compatibility

Model no	TD-4000	TD-4100N	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
P-touch Editor	✓	✓	✓	✓	✓	✓		
Mobile Deploy App						✓		
Brother Font Manager			✓	✓	✓	✓		
Printer Settings Tool			✓	✓	✓	✓		
Bartender Ultra Lite Edition	✓	✓	✓	✓	✓	✓	✓	✓
Brother Printer Management Tool	✓	✓	✓	✓	✓	✓	✓	✓
Crop Function (Windows Driver)					✓	✓		

For further details visit: https://support.brother.com   BarTender Ultra Lite edition included with TD-4420TN and TD-4520TN.

The range in detail

Left panel

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
			4 Inch			

Printing

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
Print technology	Direct thermal				Thermal transfer/ direct thermal	
Print speed	203mm/sec		152mm/sec		152mm/sec	105mm/sec
Resolution	203dpi		300dpi		203dpi	300dpi
Max. print width	104.1mm		108.4mm		108mm	105.7mm
Min. print length	Continous: 6.4mm, peeler: 12.7mm, cutter: 20mm, tear: 27mm				Peeler: 25.4mm, cutter: 25.4mm tear: 50mm	
Max. print length	3000mm				25,400mm	11,430mm
Media sensor type	Gap (transmissive), Bar (reflective)					
Media sensor location	Gap (fixed), Reflective (adjustable)					
Tear off release mode	Standard: Continuous, tear off Optional: Peeler, cutter					

Media

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
Media types	Wristbands, continuous, Die cut, fan fold, perforated, tag					
Media thickness	0.058mm - 0.279mm (0.002 inch to 0.011 inch)				0.06 - 0.19 mm (0.002 inch to 0.007 inch)	
Media width	19mm - 118.11 mm (0.75 inch to 4.65 inch)				20 - 112mm (0.79 inch to 4.41 inch)	
Media length	6.4mm - 3,000 mm (0.25 inch to 118.11 inch)				5mm - max. print length (0.20 inch to max inch)	
Diameter (max.)	127mm (5 inch)				127mm (5 inch)	
Core diameter (max.)	12.7mm (0.5 inch)				25.4mm & 38.1mm (1.0 inch & 1.5 inch)	

General

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
Control panel	3 button 3 LED			7 button 3 LED	1 button 1 LED with 3 colours	
LCD type				Mono		

Connectivity

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
USB	USB version 2.0 (full speed), Type B					
USB host capability				Yes	Yes	Yes
Serial	Serial RS232C (DB9 male)				Serial RS232C (DB9 female)	
Wired LAN	Not supported	10/100BASE-TX			10/100BASE-TX	
USB host port				Yes	Yes	Yes
Bluetooth				Version 4.2		
Bluetooth profile				SPP, OPP, HCRP Bluetooth Classic, GATT (Bluetooth Low Energy)		
Wireless LAN				802.11a/b/g/n		
Wireless LAN security				Authentic method (encryption scheme) Infrastructure mode- Open system (None/WEP64/WEP128) Common key authentication (WEP) WPA/WPA2-PSK (TKIP+AES), EAP-FAST (TKIP/AES), PEAP (TKIP/AES), EAP-TLS (TKIP/AES), EAP-TTLS (TKIP/AES) Authentic method (encryption scheme) Wireless direct mode -WPA2-PSK (AES)		
MFi support				Yes		
AirPrint				Yes		
Wired LAN			Yes	Yes	Yes	Yes

Right panel

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
			4 Inch			

Ribbon

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
Types					Wax, wax/resin, resin	
Wound type					Outside wound	
Ribbon width					40 - 110 mm (1.57 inch to 4.33 inch)	
Suggested paper core width					0.5 inch paper core: fixed width 110mm, width 2 notches in each side 1inch paper core: fixed width 110mm with 2 notches in each side 1inch paper core: paper core width is the same as ribbon width and use with ribbon spindles	
Inner paper core and ribbon length					0.5 inch paper core: Max. OD 40mm, 110m length 1inch paper core: Max. OD 67mm, 300m length	

Power

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
Adapter	AC adapter (100 - 240V 50/60Hz)				AC adapter Input: AC 100-240V, 2.0A, 50-60Hz Output: DC24V, 2.5A, 60W, LPS	

Software

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
Operating system support	Windows 7/8/8.1/10 Linux	Windows 7/8/8.1/10 Windows Server 2008/2008R2/2012/2012R2/2016 Linux			Windows 7/8/8.1/10, Windows Server 2008/2008R2/2012/2012R2/2016 OS X 10.10.x,10.11.x macOS 10.12.x,10.13.x,10.14.x Linux	
Supported printer commands	P-touch Template, ESC/P, Raster, ZPL II emulation, CPCL emulation				FBPL-EZD (EPL,ZPL,ZPL2,DPL) emulation	
Barcode symbologies	Linear: CODE 39, ITF(I-2/5), EAN-8(JAN8), EAN-13(JAN13), UPC-A, UPC-E, CODABAR (NW-7), CODE 128, GS1-128(UCC/EAN 128), GS1 Databar (Standard (Omnidirectional)/Truncated/Stacked/Stacked Omnidirectional/Limited/Expanded), CODE93, POSTNET, UPC/EAN EXTENSION, MSI, Intelligent Mail Barcode 2-dimensional: QR Code (model 1, model 2, micro QR), Maxicode, PDF417 (Standard, Truncate, MicroPDF417), Data Matrix (ECC200 Square, ECC200 Rectangular) Aztec				Linear: Code128UCC, Code128 subsets A, B, C, EAN128, Interleaved 2 of 5, Interleaved 2 of 5 with check digit, Code39, Code39 with check digit, Code93, EAN13, EAN8, UPCA, UPCE, EAN and UPC 2 (5) digits add-on, Codabar, Postnet, MSI, MSI with check digit, PLESSEY, China post, ITF14, Code11, TELEPEN, TELEPENN, PLANET, Code49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS 2-dimensional: GS1 DataBar, GS1 DataMatrix, Maxicode, AZTEC, PDF417, QR Code, Micro PDF 417	
Internal fonts	ESC/P> Bitmap font: LetterGothicBold (16,24,32,48dot), Helsinki (16,24,32,48dot), Brussels (24,32,48dot), Brougham (24,32,48dot), San Diego (24,32,48dot), Gothic (16,24,32dot) Outline font: LetterGothicRegular, Helsinki, Brussels, Gothic (1 – 400dots) <P-touch Template> Outline font: LetterGothicRegular, Helsinki, Brussels, Gothic (1 – 400dots) Downloadable font support* via Font Manager software				8 alpha-numeric bitmap fonts for FBPL Monotype Image® true type font engine with one CG Triumvirate Bold Condensed scalable font	

Memory

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
RAM	256MB				64MB	
Flash	64MB				128MB	

Environmental

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
Operating temperature	Operate: 5°C to 40°C				Operate: 5°C to 40°C	
Operating humidity	20 - 85% (No condensation, Max wet bulb temperature: 27°C)				25 - 85% non-condensing	
Storage temperature	-20°C to 60°C				-40°C to 60°C	
Storage humidity	10 - 90% (No condensation)				10 - 90% non-condensing	

Weights and dimensions

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
Dimensions (mm)	180(w) x 155(d) x 224(h)				204(w) x 178(d) x 280(h)	
Weights	2.08kg				2.5kg	

Included items

	TD-4410D	TD-4420DN	TD-4520DN	TD-4550DNWB	TD-4420TN	TD-4520TN
Supplied in box	AC adaptor and cord, USB cable, documentations				AC adaptor and cord, USB cable, documentations. Pair of 1" Ribbon spindles for 300M ribbon 1" ribbon paper core	

*Font licensee permissions are required.
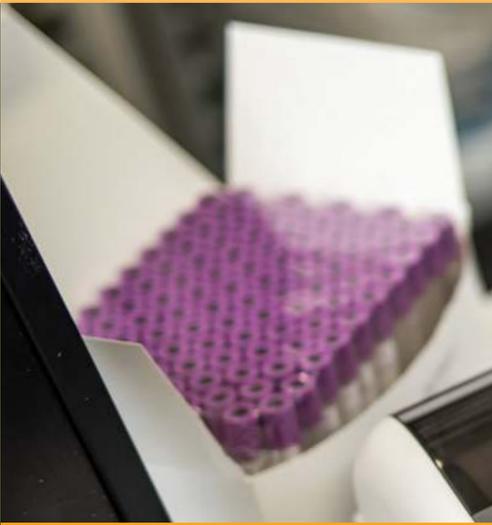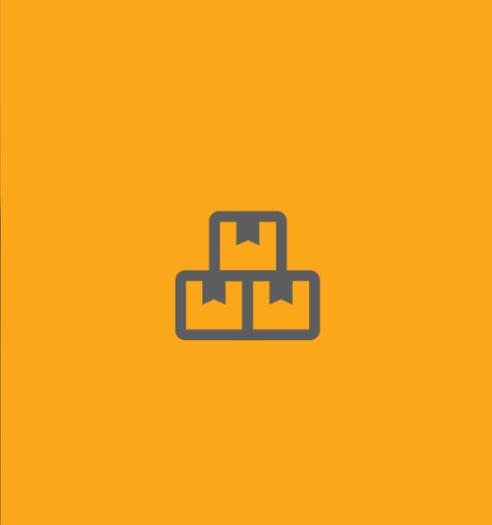
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Contact:

www.brother.co.uk

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