![brother at your side logo]

# Professional desktop label printers

## TD Series

www.brother.eu

# Versatile, high-resolution desktop printers

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

TD professional
desktop label printers

## Seamless Integration

Brother's high specification 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, the TD printers allow you to integrate into existing legacy systems.

## Up to 2 inch - Direct Thermal



TD-2020



TD-2120N



TD-2130N



TD-2130NHC

## Up to 4 inch - Direct Thermal



TD-4410D



TD-4420DN



TD-4520DN



TD-4550DNWB

## Up to 4 inch - Thermal Transfer / Direct Thermal



TD-4420TN



TD-4520TN



TD-4650TNWB



TD-4750TNWB



TD-4650TNWBR



TD-4750TNWBR

# 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 label printers offers direct thermal and thermal transfer high speed printing, at up to 300 dpi 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.

## Printing Technology

### Direct Thermal

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

### Thermal Transfer

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, harder-wearing labels.

# Healthcare, medical and laboratory
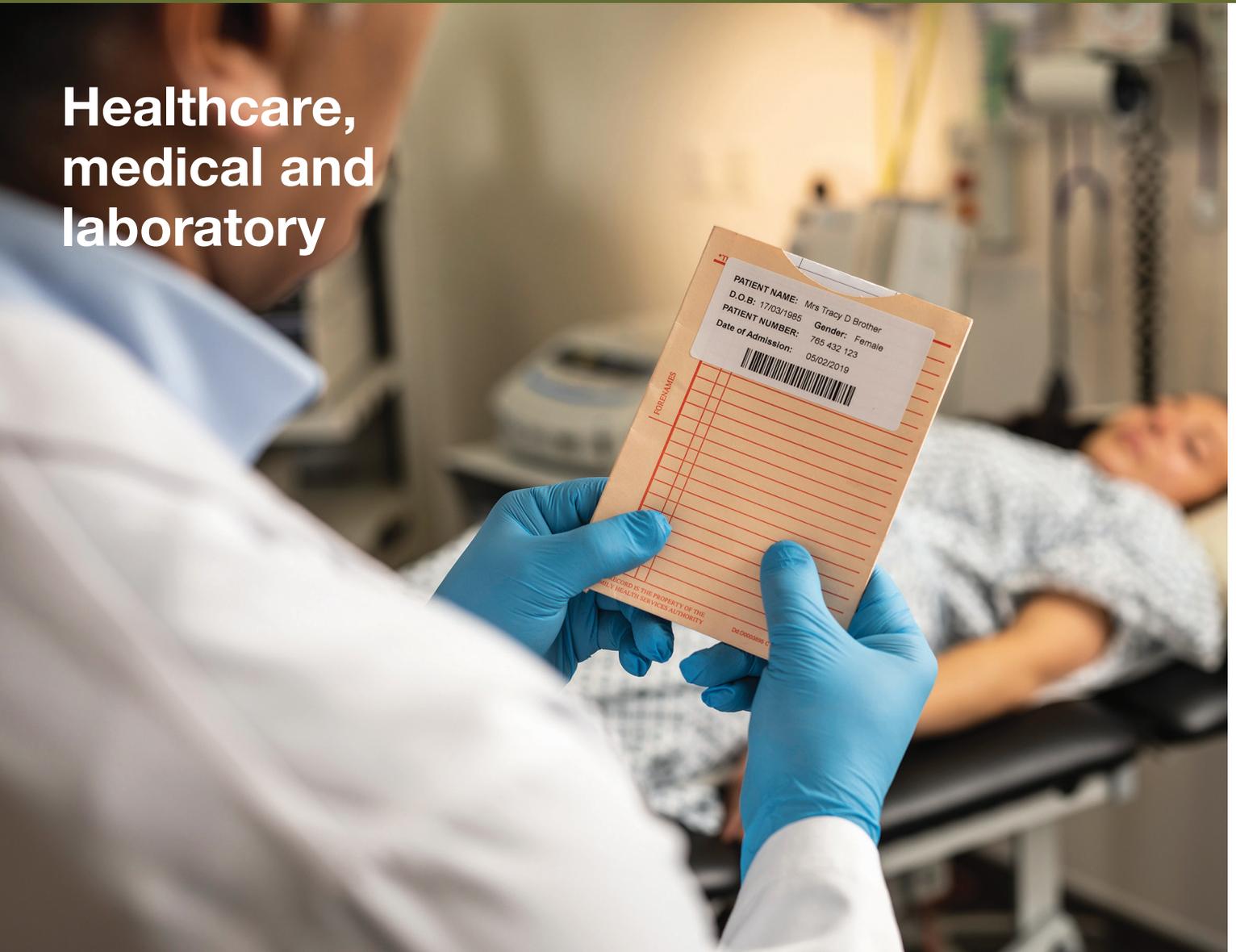


With the strict regulations on the tracking of patient specimens and other items within the healthcare industry, clear, high quality labelling is essential to maintain safety and traceability.

A selection of the thermal transfer TD models offer RFID capability, enabling healthcare organisations to implement paper-free patient identification - improving efficiency and reducing human error.

## Applications include:

- Appointment cards
- Admission labels
- Specimen and pathology labels
- Blood bag labels
- Laboratory labels
- Microbiology labels
- Dosage/drug bag labels
- Wristbands

# Warehousing and logistics

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 sized 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

# Retail

Easy to read labels are essential for consumers to help make informed decisions prior to a potential 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.

Futhermore, printing labels with RFID tags enables retailers to streamline inventory management and asset tracking while improving security.

**Applications include:**

- Pricing labels
- Barcode labels
- Pre-packaged food ingredients labels
- Nutrition information labels
- Shelf-edge labels
- Sale/mark-down/discount pricing labels
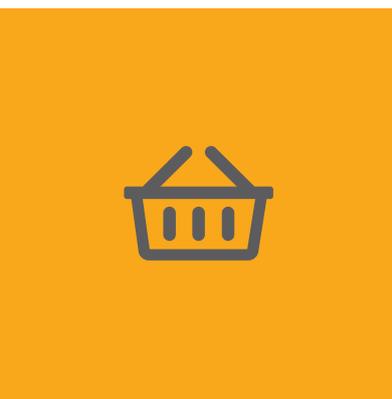
# TD-2 Range
## brief summary

| | TD-2020 | TD-2120N | TD-2130N | TD-2130NHC |
|---|---|---|---|---|
| | | **2 Inch** | | |

### Printing

| | TD-2020 | TD-2120N | TD-2130N | TD-2130NHC |
|---|---|---|---|---|
| Print technology | Direct thermal | | | |
| Print speed | 152mm/sec | | | |
| Resolution | 203dpi | | 300dpi | |
| Max print width | 56mm | | | |
| Min print length | 6mm | | | |
| Max print length | 1000mm | | | |
| Media sensor type | Gap (transmissive), Bar (reflective) | | | Bar (reflective) |
| Media sensor location | Gap (fixed), Reflective (adjustable) | | | Reflective (adjustable) |
| Tear off release mode | ● | ● | ● | ● |
| TrustSense media support | | | | ● |

### Connectivity

| | TD-2020 | TD-2120N | TD-2130N | TD-2130NHC |
|---|---|---|---|---|
| USB | ● | ● | ● | ● |
| Serial (via adapter) | ● | ● | ● | ● |
| Wired LAN | | ● | ● | ● |
| USB Host Port | | ● | ● | ● |
| Bluetooth (option) | | ● | ● | ● |
| Wireless LAN (option) | | ● | ● | ● |

### General

| | TD-2020 | TD-2120N | TD-2130N | TD-2130NHC |
|---|---|---|---|---|
| Dimensions (mm) | 110 (w) x 215 (d) x 172 (h) | | | |
| Weight | 1.32kg | 1.34kg | | |
| Control panel | 3 button 2 LED | | | |
| LCD* | | ● | ● | ● |
| Operating system support | Windows XP/Vista 7/8/10, Linux | Windows XP/ Vista 7/8/10 Windows Server 2008/2008R2 Windows Server 2012/2012R2, Linux | | |
| Supported commands | P-touch Template, ESC/P, Raster, ZPL II emulation | | | |

* Via Touch Display Unit (optional)

# TD-4 Range
## brief summary

| | TD-4410D | TD-4420DN | TD-4520DN | TD-4550DNWB | TD-4420TN | TD-4520TN | TD-4650TNWB | TD-4750TNWB | TD-4650TNWBR | TD-4750TNWBR |
|---|---|---|---|---|---|---|---|---|---|---|
| | 4 Inch | | | | | | | | | |

### Printing

| | TD-4410D | TD-4420DN | TD-4520DN | TD-4550DNWB | TD-4420TN | TD-4520TN | TD-4650TNWB | TD-4750TNWB | TD-4650TNWBR | TD-4750TNWBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Print technology | Direct thermal | | | | Thermal Transfer/Direct Thermal | | | | | |
| Print speed | 203mm/sec | | 152mm/sec | | 152mm/sec | 127mm/sec | 203.2mm/sec | 152.4mm/sec | 203.2mm/sec | 152.4mm/sec |
| Resolution | 203dpi | | 300dpi | | 203dpi | 300dpi | 203dpi | 300dpi | 203dpi | 300dpi |
| Max print width | 104.1mm | | 108.4mm | | 108mm | 105.7mm | 108mm | 105.7mm | 108mm | 105.7mm |
| Min print length | Continuous: 6.4mm, Peeler: 12.7mm, Cutter: 20mm, Tear: 27mm | | | | Peeler: 25.4mm, Cutter: 25.4mm Tear: 50mm | | Continuous: 5mm<br>Tear mode: Media width less than 2 inch: 25.4 mm<br>Media width greater than 2 inch: 50 mm<br>Peeler mode: 25.4mm Cutter mode: 25.4mm | | | |
| Max print length | 3000mm | | | | 25,400mm | 11,430mm | 25,400mm | 11,430mm | 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 | | | | | | | | Standard: Continuous, tear off | |

### Connectivity

| | TD-4410D | TD-4420DN | TD-4520DN | TD-4550DNWB | TD-4420TN | TD-4520TN | TD-4650TNWB | TD-4750TNWB | TD-4650TNWBR | TD-4750TNWBR |
|---|---|---|---|---|---|---|---|---|---|---|
| USB | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Serial | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Wired LAN | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| USB Host Port | | | | ● | ● | ● | ● | ● | ● | ● |
| Bluetooth | | | | ● | | | ● | ● | ● | ● |
| Wireless LAN | | | | ● | | | ● | ● | ● | ● |

### General

| | TD-4410D | TD-4420DN | TD-4520DN | TD-4550DNWB | TD-4420TN | TD-4520TN | TD-4650TNWB | TD-4750TNWB | TD-4650TNWBR | TD-4750TNWBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions (mm) | 180(w) x 224(d) x 155(h) | | | | 204(w) x 280(d) x 178(h) | | 219(w) x 284(d) x 191(h) | | | |
| Weight | 2.08kg | | | | 2.5kg | | 3.0kg | | | |
| Control panel | 3 button 3 LED | | | 7 button 3 LED | 1 button 1 LED with 3 colours | | 1 LED with 3 colors. 6 buttons for Navigation, MENU and FEED/PAUSE/SELECT | | | |
| 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<br><br>OS X 10.10.x,10.11.x macOS 10.12.x, 10.13.x, 10.14.x Linux | | Windows 7<br>Windows 8<br>Windows 8.1<br>Windows 10<br>Windows Server 2008, 2008 R2, 2012, 2012 R2, 2016, 2019<br>Linux<br>Mac OS v10.6-10.15 | | | |
| Supported commands | P-touch Template, ESC/P, Raster, ZPL II emulation, CPCL emulation | | | | FBPL-EZD (EPL2, ZPL2, DPL) emulation | | | | | |

# TD-2 Accessories
## and consumable supplies

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

## Power and additional options

| PA-WI-001 | PA-BI-001 | PA-SCA-001 | PA-TDU-001 | PA-BB-001 | PA-BT-4000LI | PA-LP-001 |
|---|---|---|---|---|---|---|
| **Wi-Fi WLAN Interface** | **Bluetooth Interface** | **Serial Adapter** | **Touch Panel Display** | **Battery Charging Unit\*** | **Li-ion rechargeable Battery\*** | **Label Peeler\*\*** |
| TD-2120N TD-2130N TD-2130NHC | TD-2120N TD-2130N TD-2130NHC | TD-2020 TD-2120N TD-2130N TD-2130NHC | TD-2120N TD-2130N TD-2130NHC | TD-2120N TD-2130N TD-2130NHC | TD-2120N TD-2130N TD-2130NHC | TD-2120N TD-2130N |

\* Requires PA-BT-4000LI    \* Requires PA-BB-001

## Consumables

| RD-S05E1 | RD-S07E5 |
|---|---|
| **Die Cut Labels Roll** | **Continuous Receipt Roll** |
| **Label size:** 51mm x 26mm **Quantity:** 1552 per roll **Colour:** white | **Size:** 58mm x 86m **Colour:** white |
| TD-2020 TD-2120N TD-2130N | TD-2020 TD-2120N TD-2130N |

## Wristband options for TD-2130NHC only

| Wristband Product code | Description | Size | Quantity |
|---|---|---|---|
| 8100-11-PDK | CompuBand® adult wristband direct thermal, clasp closure, white. | 29.2 x 2.9 | 150 |
| 8101-11-PDK | CompuBand® adult/paediatric wristband direct thermal, clasp closure, white. | 29.2 x 1.9 | 150 |
| 8102-11-PDK | Conf-Ident® paediatric wristband, direct thermal, clasp closure, white | 26.6 x 2.5 | 150 |
| 8150-11-PDL | ScanBand® adult wristband direct thermal, adhesive closure, white. | 29.2 x 2.5 | 200 |
| 8151-11-PDL | ScanBand® adult/paediatric wristband adhesive closure, white. | 29.2 x 1.9 | 200 |
| 8185-11-PDL | Precision® infant wristband adhesive closure, white. | 20.3 x 2.9 | 200 |
| 8195-11-PDO | TenderCare® Mother-infant wristband set, adhesive closure, white. | 20.3 x 2.9 | 120 |

| Label Product code | Description | Size | Quantity |
|---|---|---|---|
| 8100-11-PDK | CompuBand® adult wristband direct thermal, clasp closure, white. | 29.2 x 2.9 | 150 |
| 8101-11-PDK | CompuBand® adult/paediatric wristband direct thermal, clasp closure, white. | 29.2 x 1.9 | 150 |
| 8102-11-PDK | Conf-Ident® paediatric wristband, direct thermal, clasp closure, white | 26.6 x 2.5 | 150 |
| 8150-11-PDL | ScanBand® adult wristband direct thermal, adhesive closure, white. | 29.2 x 2.5 | 200 |
| 8151-11-PDL | ScanBand® adult/paediatric wristband adhesive closure, white. | 29.2 x 1.9 | 200 |
| 8185-11-PDL | Precision® infant wristband adhesive closure, white. | 20.3 x 2.9 | 200 |

\*\* Not compatible with TD-2130NHC

# TD-4D Accessories
## and consumable supplies

## TD-4D Additional Options

### PA-LP-002

**Label Peeler**

TD-4410D
TD-4420DN
TD-4520DN
TD-4550DNWB

### PA-CU-001

**Cutter**

TD-4410D
TD-4420DN
TD-4520DN
TD-4550DNWB

### PA-HU2-001

**Thermal Print Head (203dpi)**

TD-4410D
TD-4420DN

### PA-HU3-001

**Thermal Print Head (300dpi)**

TD-4520DN
TD-4550DNWB

### PA-PR2-001

**Platen Roller (203dpi)**

TD-4410D
TD-4420DN

### PA-PR3-001

**Platen Roller (300dpi)**

TD-4520DN
TD-4550DNWB

## TD-4D Consumables

| RD Rolls | Size | 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 labels | White | RD-S03E1 |
| Die cut labels roll | 102mm x 152mm | 72 labels | White | RD-M03E1 |
| Die cut labels roll | 102mm x 152mm | 281 labels | White | RD-S02E1 |
| Die cut labels roll | 76mm x 26mm | 1564 labels | White | RD-S04E1 |
| Die cut labels roll | 76mm x 44mm | 335 labels | White | RD-P09E1 |
| Die cut labels roll | 51mm x 26mm | 1564 labels | White | RD-S05E1 |
| Die cut labels roll | 51mm x 26mm | 450 labels | White | RD-Q04E1 |

# TD-4T Accessories
## and consumable supplies

## TD-4T Additional Options

### PA-RH-001
**External Roll Holder**

TD-4420TN
TD-4520TN
TD-4650TNWB
TD-4750TNWB
TD-4650TNWBR
TD-4750TNWBR

### PA-CU-003
**Cutter**

TD-4420TN
TD-4520TN
TD-4650TNWB
TD-4750TNWB
TD-4650TNWBR*
TD-4750TNWBR*

### PA-LP-004
**Peeler**

TD-4420TN
TD-4520TN
TD-4650TNWB
TD-4750TNWB
TD-4650TNWBR*
TD-4750TNWBR*

\* Not recommended for use with RFID tags

## TD-4T Consumables

| TD-4T Rolls | Size | Quantity | Colour | Item No |
|---|---|---|---|---|
| Uncoated thermal transfer die cut labels | 102mm x 74mm | 1,100 | White | BUS-1J074102-121 |
| Uncoated thermal transfer die cut labels | 102mm x 150mm | 550 | White | BUS-1J150102-121 |
| Coated thermal transfer die cut labels | 102mm x 74mm | 1,100 | White | BCS-1J074102-121 |
| Coated thermal transfer die cut labels | 102mm x 150mm | 550 | White | BCS-1J150102-121 |

| TD-4T Ribbons | Width | Length | Substrate compatibilities | Item No |
|---|---|---|---|---|
| Standard wax | 110mm / 4.33 inch | 300m | Coated/uncoated paper and tags, high gloss paper | BWS-1D300-110 |
| Premium wax | 110mm / 4.33 inch | 300m | Coated/uncoated paper and tags, high gloss paper, economy synthetics | BWP-1D300-110 |
| Standard wax/resin | 110mm / 4.33 inch | 300m | Coated/uncoated paper and tags, high gloss paper, economy synthetics | BSS-1D300-110 |
| Premium wax/resin | 110mm / 4.33 inch | 300m | Coated/uncoated paper and tags, high gloss paper, synthetics | BSP-1D300-110 |
| Standard resin | 110mm / 4.33 inch | 300m | Coated papers and tags, synthetics, textures | BRS-1D300-110 |
| Premium resin | 110mm / 4.33 inch | 300m | Economy and speciality synthetics | BRP-1D300-110 |

For additional consumable options please contact your local Brother office.

With label design apps for desktop PC's and mobile devices, and Software Development Kits (SDK's) 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 SDK's can be provided to support Windows Mobile*, Android and iOS operating systems.

# Software Support 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.

## Mobile Deploy

Cloud-based app for mobile devices (iOS and Android™), which allows IT administrators to remotely update and configure multiple Brother mobile printers. Using Mobile Deploy, the administrator can easily upload new update packages to an online location, and then share the URLs with the users.

## 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 as individual on the Brother label printer.

## Software Development Kits (SDK's)

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

## 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.

## Legacy Print Data Conversion

This feature simplifies integration with legacy systems by converting print commands into P-touch Templates. These templates can be updated externally to the legacy system without the need of specialist knowledge of print languages such as EPL, ESC/POS and others.

## 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).

* Compatibility may vary dependent on model - check table on following page

## Software

| Model No | TD-2020 | TD-2120N | TD-2130N | TD-2130NHC | TD-4410D | TD-4420DN | TD-4520DN | TD-4550DNWB | TD-4420TN | TD-4520TN | TD-4650TNWB | TD-4750TNWB | TD-4650TNWBR | TD-4750TNWBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P-touch Editor | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | |
| Mobile Deploy App | | | | | | | | ✓ | | | | | | |
| Brother Font Manager* | | | | | ✓ | ✓ | ✓ | ✓ | | | | | | |
| Printer Settings Tool | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | |
| Bartender Ultra Lite Edition | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Brother Printer Management Tool | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Crop Function (Windows driver) | | | | | | ✓ | ✓ | | | | | | | |

* Font licensee permissions are required

For further details visit: https://support.brother.com

# TD-2 Range
in detail

| | TD-2020 | TD-2120N | TD-2130N | TD-2130NHC |
|---|---|---|---|---|
| | | **2 Inch** | | |

## Printing

| | TD-2020 | TD-2120N | TD-2130N | TD-2130NHC |
|---|---|---|---|---|
| Print technology | Direct thermal | | | |
| Print speed | MAX 6 ips (152.4 mm/sec) (*Under Brother standard environment) (Battery option: Max 3 ips (76.2mm/sec) | | | |
| Resolution | 203dpi | | 300dpi | |
| Max. print width | 56mm (2.205 inch) | | | |
| Max. print length | 1,000 mm (9.37 inch) | | | |
| Min. print length | 6mm (0.24 inch) | | | — |
| Media sensor type | Gap (transmissive), Bar (reflective) | | | Bar (reflective) |
| Media sensor location | Reflective (adjustable), Gap (fixed) | | | Reflective (adjustable) |
| Tear off release mode | Standard: Continuous, Tear off Optional: Not supported | Standard: Continuous, tear off Optional: Peeled | | Standard: Continuous, Tear off Optional: Not supported |

## Media

| | TD-2020 | TD-2120N | TD-2130N | TD-2130NHC |
|---|---|---|---|---|
| Media types | Receipt (Non-coated & Coated) | | | TrustSense Media |
| Media thickness | 0.058mm - 0.279mm (0.0023 inch to 0.011 inch) | | | — |
| Media width | 19mm - 63mm (0.75 inch to 2.48 inch) | | | — |
| Media length | 12.7 mm - 1,000 mm (0.5 inch to 39.37 inch) | | | — |
| Diameter (max) | 127mm (5 inch) | | | |
| Core Diameter (max) | 25.4mm (1 inch) | | | |

## Connectivity

| | TD-2020 | TD-2120N | TD-2130N | TD-2130NHC |
|---|---|---|---|---|
| USB | | ● | ● | ● |
| Serial | Yes  RS232C  * Original serial cable (option required) | | | |
| Wired LAN | Not supported | 10/100BASE-TX | | |
| USB host port | Not supported | Supported only PA-WI-001 (optional) or barcode readers | | |
| Bluetooth (option) | | ● | ● | ● |
| Bluetooth profile | — | SPP (Serial Port Profile) / BIP (Basic Imaging Profile) / OPP (Object Push Profile) supported | | |
| Wireless LAN (option) | — | IEEE802.11b/g/n (Infrastructure Mode   IEEE802.11b (Adhoc mode) | | |
| Wireless LAN security | — | Open System (None/WEP)<br><Personal mode><br>Open System (None/WEP)  Public Key Authentication (WEP)<br>WPA-PSK/WPA2-PSK (TKIP/AES)<br><br><Enterprise mode><br>LEAP (CKIP)<br>EAP-FAST (TKIP/AES)<br>PEAP (TKIP/AES)<br>EAP-TTLS (TKIP/AES)<br>EAP-TLS (TKIP/AES) | | |

## General

| | TD-2020 | TD-2120N | TD-2130N | TD-2130NHC |
|---|---|---|---|---|
| Control panel | 3 button 2 LED | | | |
| Touch panel keyboard display with real time clock (option) | | ● | ● | ● |
| Tear bar | ● | ● | ● | ● |
| Peeler | — | Optional | | — |
| Battery (option) | | ● | ● | ● |
| Battery charging time | — | 180 min. (23°C New battery) | | |
| Battery yield | — | 57mm x 200m (1 roll : 5 inch OD roll))<br>* Connected by USB with new battery with full charging. Printed by Brother special data (9% coverage 57mm x 127mm)<br>at 23 degree Ceisius (*Under Brother standard environment) | | |
| Adapter | AC adapter ( 100 - 240 V 50/60Hz) | | | |

| | TD-2020 | TD-2120N | TD-2130N | TD-2130NHC |
|---|---|---|---|---|
| | | **2 Inch** | | |

**Memory**

| | | |
|---|---|---|
| RAM | 32MB | |
| Flash | 16MB | |

**Environmental**

| | | |
|---|---|---|
| Operating temperature | Operate: 5°C to 40°C | Operate: 5°C to 40°C   Charge: 5°C to 40°C |
| Operating humidity | 20 to 80% (No condensation, Maximum wet bulb temperature: 27°C) | |
| Storage temperature | -20°C to 60°C | |
| Storage humidity | 20 to 80% (No condensation, Maximum wet bulb temperature: 45°C) | |

**Weights & Dimensions**

| | | |
|---|---|---|
| Dimensions (mm) | 110mm (w) x 172 mm (h) x 215mm (d) | |
| Weights | Printer: 1.32kg  2.91 pound | Printer: 1.34kg 2.96 pound.  Printer with battery: 1.88kg 4.15 pound |

**Included Items**

| | | |
|---|---|---|
| Supplied in box | Printer | |
| | AC power cord & AC adaptor | |
| | CD (Printer Driver, P-touch Editor 5.0, P-touch Transfer Manager 2.1, P-touch Update Software, Printer Setting tool, User's Guide, Software User's Guide) | CD (Printer Driver, P-touch Editor 5.0, P-touch Transfer Manager 2.1, P-touch Update Software, BRAdmin Light, Printer Setting tool, User's Guide, Software User's Guide, Network User's Guide) |
| | USB Cable (mini-USB) | |
| | Quick Reference Guide.  Product Safety Guide (including warranty card) | |

# TD-4 Range
## in detail

| | TD-4410D | TD-4420DN | TD-4520DN | TD-4550DNWB | TD-4420TN | TD-4520TN | TD-4650TNWB | TD-4750TNWB | TD-4650TNWBR | TD-4750TNWBR |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **4 Inch** | | | | | |

## Printing

| | TD-4410D | TD-4420DN | TD-4520DN | TD-4550DNWB | TD-4420TN | TD-4520TN | TD-4650TNWB | TD-4750TNWB | TD-4650TNWBR | TD-4750TNWBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Print technology | Direct thermal | | | | Thermal Transfer/Direct Thermal | | | | | |
| Print speed | 203mm/sec | | 152mm/sec | | 152mm/sec | 127mm/sec | 203.2mm/sec | 152.4mm/sec | 203.2mm/sec | 152.4mm/sec |
| Resolution | 203dpi | | 300dpi | | 203dpi | 300dpi | 203dpi | 300dpi | 203dpi | 300dpi |
| Max. print width | 104.1mm | | 108.4mm | | 108mm | 105.7mm | 108mm | 105.7mm | 108mm | 105.7mm |
| Min. print length | Continuous: 6.4mm, Peeler: 12.7mm, Cutter: 20mm, Tear: 27mm | | | | Peeler: 25.4mm, Cutter: 25.4mm Tear: 50mm | | Continuous: 5mm Tear mode: Media width less than 2 inch: 25.4 mm Media width greater than 2 inch: 50 mm Peeler mode: 25.4mm Cutter mode: 25.4mm | | | |
| Max. print length | 3000mm | | | | 25,400mm | 11,430mm | 25,400mm | 11,430mm | 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 | | | | | | Standard: Continuous, tear off Optional: Peeler, Cutter | | Standard: Continuous, tear off Optional: Peeler, Cutter* | |

## Media

| | TD-4410D | TD-4420DN | TD-4520DN | TD-4550DNWB | TD-4420TN | TD-4520TN | TD-4650TNWB | TD-4750TNWB | TD-4650TNWBR | TD-4750TNWBR |
|---|---|---|---|---|---|---|---|---|---|---|
| Media types | Wristbands, Continuous, Die cut, Fan fold, Perforated, Tag | | | | | | Media type Continuous, black mark, label with gap, notch media, punched hole media | | Media type Continuous, black mark, label with gap, notch media, punched hole media, Gen2 RFID 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) | | | | | | | | | |
| Core Diameter (min) | 12.7mm (0.5 inch) | | | | 25.4mm & 38.1mm (1.0 inch & 1.5 inch) | | 25.4mm & 38.1mm | | | |

## Ribbon

| | TD-4410D | TD-4420DN | TD-4520DN | TD-4550DNWB | TD-4420TN | TD-4520TN | TD-4650TNWB | TD-4750TNWB | TD-4650TNWBR | TD-4750TNWBR |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 & ribbon length | — | | | | 0.5 inch paper core: Max. OD 40mm, 110m length 1inch paper core: Max. OD 67mm, 300m length | | | | | |

## Connectivity

| | TD-4410D | TD-4420DN | TD-4520DN | TD-4550DNWB | TD-4420TN | TD-4520TN | TD-4650TNWB | TD-4750TNWB | TD-4650TNWBR | TD-4750TNWBR |
|---|---|---|---|---|---|---|---|---|---|---|
| USB | USB version 2.0 (full speed) Type B | | | | USB Version 2.0 (High Speed) | | | | | |
| USB host capability | | | | ● | ● | ● | ● | ● | ● | ● |
| Serial | Serial RS232C (DB9 male) | | | | Serial RS232C (DB9 female) | | Serial RS232C (DB9 female) | | | |
| Wired LAN | 10/100BASE-TX | | | | | | | | | |
| USB host port | | | | ● | ● | ● | ● | ● | ● | ● |
| Bluetooth | — | | | Version 4.2 | — | | Version 4.2 | | | |
| Bluetooth profile | — | | | SPP, OPP, HCRP Bluetooth Classic, GATT (Bluetooth Low Energy) | — | | SPP, Bluetooth Classic | | | |
| Wireless LAN | — | | | 802.11a/b/g/n | — | | 802.11a/b/g/n | | | |
| Wireless LAN security | — | | | See model TD-4650TNWB specifications and also includes Wireless direct mode WPA2-PSK (AES) | — | | 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) | | | |
| MFI support | | | | ● | | | | | | |
| AirPrint | | | | ● | | | | | | |
| Wired LAN | | ● | ● | ● | ● | ● | ● | ● | ● | ● |

* Not suitable for RFID tags

| | TD-4410D | TD-4420DN | TD-4520DN | TD-4550DNWB | TD-4420TN | TD-4520TN | TD-4650TNWB | TD-4750TNWB | TD-4650TNWBR | TD-4750TNWBR |
|---|---|---|---|---|---|---|---|---|---|---|
| | **4 Inch** | | | | | | | | | |

## General

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Control panel | 3 button 3 LED | | | 7 button 3 LED | 1 button 1 LED with 3 colours | | 1 LED with 3 colors, 6 buttons for Navigation, MENU and FEED/PAUSE/SELECT | | | |
| LCD type | — | | | Mono | — | | Colour | | | |

## Power

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Adapter | AC adapter (100 - 240V 50/60Hz) | | | | AC adapter Input: AC 100-240V, 2.0A, 50-60Hz Output: DC24V, 2.5A, 60W, LPS | | AC adapter Input: AC 100-240V, 2.0A, 50-60Hz Output: DC 24V, 3.75A, 90W CEC6 compliance | | | |

## Software

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 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, 2008 R2, 2012, 2012 R2, 2016, 2019 Linux Mac OS v10.6-10.15 | | | | | |
| Supported printer commands | P-touch Template, ESC/P | P-touch Template, ESC/P, Raster, ZPL II emulation, CPCL emulation | | | FBPL-EZD (EPL2, 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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| RAM | 256MB | | | | 64MB | | 128MB | | | |
| Flash | 64MB | | | | 128MB | | 128MB | | | |

## Environmental

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Operating temperature | 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) | | | | | | | | | |

## Weights & Dimensions

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions (mm) | 180(w) x 155(d) x 224(h) | | | | 204(w) x 178(d) x 280(h) | | 219(w) x 284(d) x 191(h) | | | |
| Weights | 2.08kg | | | | 2.5kg | | 3.0kg | | | |

## Included Items

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Supplied in box | AC adaptor & cord, USB cable, documentations | | | | AC adaptor & cord, USB cable, documentations. Pair of 1" Ribbon spindles for 300M ribbon 1" ribbon paper core | | Printer AC code & AC adaptor A pair of 1" Ribbon spindles for 300M ribbon 1"" ribbon paper core USB Cable (1.5m) Quick Start Guide Product Safety Guide (including warranty card) | | | |

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