



# Polaroid P420T Barcode Printer

The P420T thermal transfer desktop printer provides an economic solution to handle your most demanding label printing applications. It features a fast 5 inches per second print speed, a large 5" OD media cabinet and an industry best 300 meter ribbon capacity to deliver the best quality and lowest total cost of ownership for desktop label printing.

## SUPERIOR, FAST, AFFORDABLE PERFORMANCE

### Features:

- Dual-motor gear driven design
- 127 mm (5") inches per second print speed
- 300 meter (984') ribbon supply on a 25.4 mm (1") core (coated side out)
- 127 mm (5") OD internal media supply, optional external media holder supports 214 mm (8.4") OD label rolls on 76.2 mm (3") core
- Print mechanism for kiosk applications
- 200 MHz 32-bit RISC processor with 8 MB SDRAM, 4 MB Flash memory
- USB 2.0
- Internally scalable true type fonts
- TSPL-EZ™ firmware emulates TPLE and TPLZ languages out of the box
- Free bundled labeling software and Windows drivers
- 2 year limited warranty
- ENERGY STAR® qualified

### Applications:

- **Manufacturing & Warehousing**
  - Work in Progress
  - Item Labels
  - Instruction Labels
  - Agency Labels
- **Healthcare**
  - Patient Identification
  - Pharmacy
  - Specimen Identification
- **Parcel Post**
  - Shipping Labels
  - Receiving Labels
- **Small/Home Office**
- **Retail Marking**
  - Price Tags
  - Shelf Labels
  - Jewelry Tags

# Specifications

## Resolution

8 dots/mm (203 DPI)

## Printing Method

Thermal Transfer & Direct Thermal

## Maximum Print Speed

127 mm (5")/second

## Maximum Print Width

108 mm (4.25")

## Maximum Print Length

2,794 mm (110")

## Enclosure

ABS Plastic

## Physical Dimension

224 mm (W) x 186 mm (H) x 294 mm (D)  
8.82" (W) x 7.32" (H) x 11.57" (D)

## Weight

2.45 kg (5.4 lbs)

## Label Roll Capacity

127 mm (5") OD

## Ribbon

300 m long, max. OD 67 mm, 1" core  
(ink coated outside)

## Processor

32-bit RISC CPU

## Memory

- 4 MB Flash memory
- 8 MB SDRAM
- microSD card reader for Flash memory expansion, up to 4 GB

## Interface

- USB 2.0
- RS-232 (factory option)
- Centronics (factory option)
- Internal Ethernet, 10/100 Mbps (factory option)
- Bluetooth (user option)
- External 802.11 b/g/n wireless (user option)

## Power

- External universal switching power supply
- Input: AC 100-240V, 1.8A, 50-60Hz
- Output: DC 24V, 2.5A, 60W

## Operation switch, button, LED

1 power switch, 1 feed button & 1 LED  
(3 colors: green, amber & red)

## Sensors

- Transmissive gap sensor (position adjustable)
- Black mark reflective sensor (position adjustable)
- Ribbon end sensor
- Head open sensor

## Real Time Clock

Standard

## Internal Fonts

- 8 alpha-numeric bitmap fonts
- Monotype Image® true type font engine with one CG Triumvirate Bold Condensed scalable font

## Barcode

- 1D barcode  
Code 39, Code 93, Code 128UCC, Code 128 subsets A, B, C, Codabar, Interleaved 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2(5) digits add-on, MSI, PLESSEY, POSTNET, China POST, GS1 DataBar, Code 11
- 2D barcode  
PDF-417, Maxicode, DataMatrix, QR code, Aztec, GS1 DataBar Composite Code

## Font and barcode rotation

0, 90, 180, 270 degree

## Printer Language

TSPL-EZTM (Compatible to EPL, ZPL, ZPL II)

## Media Type

Continuous, die-cut, black mark, fan-fold, notched  
(outside/inside wound)

## Media Width

25.4 ~ 118 mm (1.0" ~ 4.6")

## Media Thickness

0.06 ~ 0.254 mm (2.36 ~ 10 mil)

## Media Core Diameter

25.4 ~ 38 mm (1" ~ 1.5")

## Label Length

10 ~ 2,794 mm (0.39" ~ 110") 10 ~ 1,016 mm  
(0.39" ~ 40")

## Environment Condition

Operation: 5 ~ 40°C, 25 ~ 85% non-condensing  
Storage: -40 ~ 60°C, 10 ~ 90% non-condensing

## Safety Regulation

FCC Class A, CE Class A, CCC, ENERGY STAR®

## Environmental Concern

Comply with RoHS, WEEE

## Accessories

- Windows labeling software CD disk
- Quick start guide
- USB cable
- Power cord
- External universal switching power supply
- Label spindle, fixing tab x 2
- Ribbon spindle x 2
- Ribbon paper core

## Limited Warranty

- Printer: 2 years
- Print head: 25 km (1 million inches) or 12 months, whichever comes first
- Platen: 50 km (2 million inches) or 12 months, whichever comes first

## Factory Options

- RS-232 serial interface
- 128 x 64 pixels graphic type LCD display with back light
- Centronics parallel interface
- Internal Ethernet interface (10/100 Mbps)

## Dealer Options

- Peel-off module
- Guillotine cutter (full cut or partial cut)

## User Options

- External roll mount, media OD. 214 mm (8.4") with 76.2 mm (3") core
- Bluetooth module (serial interface)
- 802.11 b/g/n wireless module (serial interface)
- 1.5" core adapter x 2
- KP-200 Plus keyboard display unit
- KU-007 Plus programmable smart keyboard



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