PB50

Mobile Label Printer

- **Complements Intermec's high speed, mobile, warehouse solutions**

- **High-speed electronics and high-voltage battery deliver ultra-fast print speeds**

- **Patented power management maximizes battery life**

- **Communication options include WLAN, Bluetooth®, serial and USB**

- **Highest level of wireless security in its class**

- **Ample on-board memory keeps fonts resident on printer**

- **Accepts multiple media types and widths**

- **Designed for durability and ease of use**

- **Remote management capability via Intermec SmartSystems™**

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The PB50 four-inch mobile label printer is the perfect complement to Intermec's mobile computers, scanners and media to put your mobile workers in the warehouse fast lane. With the convenience of printing labels, tags and receipts where and when you need to through Bluetooth® and WLAN connectivity, the PB50 increases productivity for warehouse operations, or wherever you need a combination of wireless communication, ultra-fast print speeds and well-managed battery life in a rugged, wearable design.

The PB50 printer interfaces seamlessly with Bluetooth-enabled Intermec mobile computers including the CK31, CK61, and CV30 vehicle mount computer, along with the CN3, and 700 series. The PB50 offers the flexibility to either be worn using a shoulder strap or belt clip, or it can be mounted to a mobile cart or fork truck.

A unique design that combines a high-voltage battery, patented techniques for power management of the print head, and high speed electronics normally only used in desktop printers enable the PB50 to print the full-width of all pixels *simultaneously* and achieve "time to first label" in less than half the time of other label printers.*

Patented power management of the 32.6 watt hours of available power mean the PB50 will not only maintain consistent power to the print head to maintain high quality printing, but also prevent frequent disruptions for battery changes.

With the latest in wireless security including WEP (64 and 128), WPA/WPA2 Personal Mode, and WPA/WPA2 Enterprise Mode (PEAP, TTLS, LEAP-Open only), the PB50 is fully compatible with your Wi-Fi infrastructure, mobile computing and network security, so users won't have to sacrifice peace of mind for the convenience of wireless operation.

The PB50 is supported by Intermec SmartSystems™ technology, delivering unique remote management capability. This allows managers to view details such as CPU part and serial number, battery voltages, and firmware versions. The user can also remotely update PB50 firmware via the host device.

In addition to accommodating a variety of media types, the unique design of the PB50 allows users to print labels, from 2" to 4" wide, which is valuable to companies needing a flexible solution to address multiple applications with a single device.

*Based on tests conducted by Intermec Technologies 10/07.
For a copy of the test data, please contact Intermec Printer Marketing.

With 64MB of on board Flash memory and the ability to store a full Unicode font, the PB50 gives users the flexibility to print multiple languages on a single label. In addition, users can improve label throughput by storing frequently used label formats and graphics on the printer, eliminating the need to access files from the host system.

The PB50 is also designed for ease of use making loading, charging, printing and diagnostics fast and simple. With straightforward, intuitive status indicators and audio feedback, end-users can be sure that the device has enough media, battery life, and wireless connectivity so they can perform their job efficiently.

Physical Characteristics
Width: 160.02 mm (6.3 in)
Height: 174.5 mm (6.87 in)
Depth: 78.8 mm (3.10 in)
Weight: 976 g (34.4 oz) printer only; 1190 g (42.0 oz) with battery; 1495 g (52.7 oz) with battery and label roll

Environmental
Operating temperature: -15°C to 50°C (5°F to 122°F) with Bluetooth; 0°C to 50°C (32°F to 122°F) with 802.11g
Storage temperature: -22°C to 70°C (-30°F to 158°F)
Charging temperature: 0°C to 40°C (32°F to 104°F)
Humidity: 10 to 90% (non-condensing)
Electrostatic Discharge:
• **Contact Discharge:** +/-8kV
• **Air Discharge:** +/-10kV
Sealing: IP54, excluding media path
Drop spec: Survives 1.5m (5 ft.) drops to concrete

Power
Battery: Rechargeable 14.8V Li-Ion, 2200mAh (4 cells); 32.56 watt hours; Battery will retain 50% or more of original capacity after 500 charge/discharge cycles. Battery must be ordered separately.
Recharging: 4 hours maximum
Endurance per fully charged battery:
• **Printing:** Up to 1000 4" x 6" labels
• **Standby mode:** Up to 7 days for both Bluetooth and 802.11 models
• **On with active radio:** 48 hours for Bluetooth; 24 hours for 802.11
AC Adapter: 50 watts
Voltage Range: 12V +/- 5%

Memory
RAM: 16MB
Flash: 64MB

Standard Communications
RS-232 Serial
USB v2.0

Optional Communications
Bluetooth® (Class 1) or 802.11g

Wireless Security
WEP (64 and 128), WPA/WPA2 Personal Mode, and WPA/WPA2 Enterprise Mode (PEAP, TTLS, LEAP [Open only])

Print Speed and Resolution
4 ips (100 mm/s)
203 dpi (8 dots/mm)

Print Technology
Print head: Direct thermal
Maximum print width: 108 mm (4.25 in)

Media
Both North American and European label media are supported in multiple label widths. The PB50 supports receipt media in both top coated and uncoated paper in continuous roll stock only.
Type: Label (linered & linerless), tag, receipt, fan-fold
Width for all types: 49 mm to 111.5 mm (2 to 4.39 in)
Media length for label, tag and fanfold: 25.4 mm (1.0 in) min; 609.6 mm (24 in) max
Media length for receipt: Continuous
Thickness for label with liner or receipt: 2 mil to 6.5 mil; 0.05 mm (0.002 in) min; 0.165 mm (0.0065 in) max
Thickness for tag: 0.15 mm (0.006 in) max
Tracking for all types: Center
Core ID: 19 mm (0.75 in) standard
Capacity: 67.3 mm (2.65 in) max. roll diameter (approximately 100 4" x 6" labels or 200 4" x 6" receipts)

Software
Programming Language
• IPL
• Fingerprint/DP
• ESC-P command sets (Available Jan 2008)
• ZSim (ZPLII Simulation)

Character Sets
West European Latin No.1 and 9: Danish, Dutch, English Faeroese, Finnish, French, German, Icelandic, Irish, Italian, Norwegian, Portuguese, Spanish, Swedish
East European Latin No.2: Albanian, Czech, English, German, Hungarian, Polish, Rumanian, Serbo-Croatian, Slovak, Slovene
Cyrillic: Bulgarian, Byelorussian, English, Macedonian, Russian, Serbo-Croatian, Ukrainian
Arabic
Greek
Hebrew
U.S. Standard
Europe multilingual
Code Page requirements for Asian characters

Graphics
Supports user-defined fonts, graphics, formats and layouts, including custom logos

Barcode Symbologies
1D: Codabar, Code 11, Code 39, Code 39 full ASCII, Code 39 w. checksum, Code 93, Code 128, Code 128 Subset A-C, DUN-14/16, EAN-8, EAN-13, EAN-128, EAN-128 Subset A-C, Five-Character Supplemental Code, Industrial 2 of 5, Industrial 2 of 5 w. checksum, Interleaved 2 of 5, Interleaved 2 of 5 w. checksum, Interleaved 2 of 5 A, Matrix 2 of 5, Postnet, Straight 2 of 5, Two-Character Supplemental Code, UCC-128 Serial Shipping Container Code, UPC-5 digits Add-On Code, UPC-A, UPC-D1 to D5, UPC-E, UPC Shipping Container Code, RSS, Planrt, Plessey
2D: Code 16K, Code 49, Data Matrix, MaxiCode, MSI(modified Plessey), PDF 417, QR Code, MicroPDF417, EAN.UCC Composite

LCD Display/User Interface
Display: Visible area is 4.68 cm (1.84 in) wide x 1.77 cm (.70 in) high.
Resolution: 120 x 42 pixels
Backlight: Single green LED
Four external buttons: Standby (Power); Paper Feed; Set-up; Info
Four audio status indicators: Error alert, hardware change alert, button press alert and startup alert

Accessories
Hand strap, shoulder strap, universal mounting clip, protective case, cart/vehicle mount, cleaning card, battery, four-bay battery charger, A/C adapter, A/C power cord, truck power cable adapter, truck power cable, forklift power cable (available Jan 2008), serial cable.

Safety Approvals
North America UL and cUL Listed, UL 60950-1 – Pending
Europe - GS Licensed, EN 60950-1 – Pending; CE marked
Mexico NYCE Certified , NOM 19 – Pending
Other Countries IEC 60950-1 – Pending

EMC Approvals
USA FCC Title 47, Part 15, Subpart B, Class B; Europe EMC Directive (EN55022 Class B + EN55024) ; CISPR22

Warranty
One year; additional Medallion service packages available

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