PD41/ PD42

Commercial Printers

- **Strong metal construction for** demanding, medium-duty applications

- **User friendly design** with full graphic display (PD42) or simple one-button operation (PD41)

- **Smart Printing capabilities** support stand-alone printer applications, eliminating PC expense and complexity

- **All-in-one, user-selectable printer languages -** Fingerprint/Direct Protocol (DP), IPL, ZSim, DSim and ESim - in every printer

- **Secure wireless connectivity:** CCX and WiFi® certified with WPA2

- **Integrated Ethernet,** USB host and device, and serial interface standard

- **Internet Protocol v6** (IPv6) support

- **Interchangeable print head** provides choice of 203 or 300 dpi print resolution

Intermec®
by Honeywell

Members of the smartest bar code printer family on the market, the Intermec PD41 and PD42 are flexible and programmable, enabling customers to optimize their printing operations, streamline deployment, and achieve quick return on investment. Built to meet the needs of mission-critical applications, the rugged PD printers deliver advanced, secure connectivity and the latest network protocols, ensuring peace-of-mind today and a reliable, scalable solution for the long haul. The versatile PD41 and PD42 Commercial Printers are part of Intermec's complete line of smart, strong and secure industrial printers.

Smart
The PD printers' smart design features support increased productivity in demanding environments. As Smart Printers, they can host stand-alone applications, developed through Intermec Fingerprint programming language, that reduce errors and streamline operational processes. Smart Printers can eliminate the PC and control other devices directly (such as scanners, scales, applicators), improving efficiency and decreasing infrastructure costs and complexity.

Their integrated device management and diagnostic capabilities, provided through Intermec SmartSystems™ and Wavelink Avalanche™, reduce downtime and simplify deployment. With user-selectable, all-in-one programming languages (Fingerprint,

IPL, ZSim, DSim, ESim), the PD printers fit existing IT infrastructures, deploying with drop-in simplicity to Intermec or mixed printer environments. Secure, industry-standard connectivity options support easy integration and fast deployment.

Strong
With their all-metal chassis and covers, proven printing mechanics and powerful electronics, the rugged PD printers reduce downtime and minimize maintenance costs. The PD41's simple, one-button interface provides the ultimate in ease-of-use. The PD42's graphical display allows users to set up, configure and fine tune printing parameters without having to send commands through the host, saving time. An open design makes media loading quick and easy, and the print head can easily be replaced without tools. The printers are co-engineered and tested with Intermec labels and other media products, ensuring optimized performance when used with genuine Intermec media.

Secure
Multiple interface options are available, including the highest level of secure wireless connectivity (WPA2). The industry's only printers available with WiFi- and CCX-Certification, Intermec industrial printers help maintain wireless network integrity and reduce configuration time. Every printer ships with Ethernet connectivity, as well as with emerging network protocol IPv6, ensuring long-term,

enterprise scalability. Other connectivity options – standard RS232 and USB ports, optional parallel port – provide additional integration flexibility.

The standard CompactFlash™ memory slot is complemented by new USB host and device support. Handy, inexpensive and PC-compatible, CompactFlash and USB memory technologies provide extra storage for Fingerprint programs, layouts, graphics*, fonts and firmware upgrades.

* Fingerprint only

Description
Direct thermal and thermal transfer label, ticket and tag printers, with one-button user interface (PD41) or full graphic user interface (PD42).

Physical Characteristics
Length: 453 mm (17.8 in)
Height: 273 mm (10.8 in)
Width: 270 mm (10.6 in)
Weight: 13 kg (28.7 lbs)

Print Specifications
Max. Width: 104 mm (4.09 in) at 203 dpi
105.7 mm (4.16 in) at 300 dpi
Max. Length: 1520 mm (59.8 in) at 203 dpi
1028 mm (40.5 in) at 300 dpi

Print Speed
50-150 mm/s (2-6 ips) at 203 dpi
50-100 mm/s (2-4 ips) at 300 dpi

Print Resolution
8 dots/mm (203 dpi)
11.8 dots/mm (300 dpi, option)

Media
Type: Labels & Tags
Max Width: 118.1 mm (4.65 in)
Max Width with cutter: 114m (4.49 in)
Min Width: 25.4 mm (1 in)
Thickness: 2.3 to 9.8 mil
Configuration: Roll-fed, die-cut, continuous or fanfold
Sensing: Gap, notch, black mark, continuous
Label Roll Max Diameter: 213 mm (8.38 in)
Label Roll Core: 38-76mm (1.5-3 in)

Type: Ribbons
Roll Max Diameter: 76 mm (2.99 in) or approx. 450m
Core ID: 25.4 mm (1")
Type: Wax, mid-range, resin

Genuine Intermec Media: www.intermec.com/media

Interfaces
Standard:
- Ethernet 10/100 Mbps
- RS-232, up to 115.2 kB/s
Supported Serial Protocols:
- Fingerprint/Direct Protocol: XON/XOFF, ENQ/ACK, DTR, RTS/CTS
- IPL: XON/XOFF, Intermec Std. Protocol
- USB 2.0
Optional:
- Parallel IEEE 1284
Wireless:
- IEEE 802.11 b/g
- Wi-Fi Certified, CCX (Cisco®) version 3 Certified
- WEP, WPA, WPA2, 802.11x (EAP-TTLS, LEAP, PEAP, FAST), 802.11i
Supported Protocols: TCP/IP-suite (TCP, UDP, ICMP, IGMP, etc.), LPR/LPD, FTP, BOOTP, DHCP, HTTP, SNMPv3, SMTP.SNMP-MIB II supported (over UDP/IP), private enterprise MIB included.
Supports IPv4 and IPv6

Software
Printer Command Languages:
- IPL
- Fingerprint/Direct Protocol
- ZSim (ZPL)
- DSim (DPL)
- ESim (EPL)
- XML enabled for SAP® AII and Oracle ® WMS
Applications / Drivers:
- InterDriver™ Windows printer driver
- Intermec label design and print package
- PrintSet for printer configuration
Development Software:
- Intermec Fingerprint Application Builder™ (IFAB)
Device Management Support:
- SmartSystems™
- Wavelink Avalanche™

Bar Code Symbologies
All major 1D and 2D symbologies are supported.

Standards Supported
UPC/EAN Shipping Container; UCC/EAN 128 Serial Shipping Container; MH10.8 Shipping Label; AIAG (shipping parts label); OGMARS; POSTNET; HIBCC; ISBT 128; GM1724; UPS shipping label; Global Transport label

Fonts
Scalable fonts including CP1252
Font cache for maximum performance
Non-Latin fonts and legacy fonts available

Graphics
Supports PCX file format. (Fingerprint Only)
Other formats supported with Label Generation Tools

Memory
Standard: 8MB Flash memory 16MB SDRAM (1 Compact Flash slot and 1 USB Boot / Hub Slot)
Available: Up to1GB CompactFlash (type 1) memory, Multi GB USB Thumb Drive Memory

Keypad Control Panel
PD41:
One Print/Pause button
Four LED indicators: Power; Data Transfer; Error/Warning; Ready-to-Work

PD42:
Keypad Control Panel and LCD console
One Print/Pause button
Four LED indicators: Power; Data Transfer; Error/Warning; Ready-to-Work
Monochrome graphical display, 160 x 160 pixels

Power Supply
Voltage Range: 100-240 VAC ±10% auto switch
Frequency Range: 45-65 Hz

Operating Environment
Temperature: +5°to 40°C (+40°to 104°F)
Humidity: 20-85% non-condensing free air

Regulatory Approvals
FCC, UL, cUL, CE, NOM

Options
Internal rewinder, cutter, CompactFlash™ memory cards, parallel interface, real-time clock

Intermec SmartSystems™

WiFi CERTIFIED®

CISCO Compatible

Intermec® PartnerNet