PX940

High-Performance Industrial Printer with Integrated Label Verification

The PX940 high-performance industrial printer with integrated label verification technology provides error-free printing.

Developed for companies that are subjected to fines levied for non-compliance to regulatory standards and returned shipments due to unreadable barcodes, the PX940 prints barcodes that are 100% readable every time. With pass/fail and ANSI grades from 0.0 (F) to 4.0 (A), bad labels that do not meet an established threshold are voided and a new label is reprinted. The PX940 printer has print registration of up to +/- 0.2 mm (0.0079 in). The trend toward miniaturization requires printing on smaller and smaller labels. The PX940 will print accurately on small labels, edge to edge with high precision.

The PX940 printer is suited for transportation and logistics, pharmaceuticals and healthcare, shipping and distribution centers, industrial manufacturing, automotive parts suppliers, and applications that are regulated and require high precision and error-free printing. The PX940 printer is available in two versions: one with the integrated verifier, and an option without the integrated verifier. Both versions are available with standard features such as Bluetooth® LE, used with Print Set MC and smart printing capability. Smart printing allows users to configure printer settings and print without the need for a host computer.

With a Honeywell firmware platform that supports multiple print languages, the PX940 printer is an easy replacement for competitive printers. A rugged all-metal print mechanism, easy printhead and tool-free platen roller replacement, and a predictive maintenance system help to minimize downtime and maintenance. The PX940 printer can support a wide range of media – including ink-in and ink-out ribbons with one-inch core size – enabling maximum time between media resupply. Fast time-to-label and print speeds of up to 350 mm/s (14 ips) ensure that the PX940 printer can scale with the changing needs of dynamic operations.

With integrated label verification technology and Operational Intelligence software, the PX940 industrial printer gives customers 100% readable printed barcodes, predictive analytics, and a lower overall cost of ownership.

FEATURES AND BENEFITS

Integrated label verification technology checks and ensures that barcodes are accurate every time; instantly notifies you of pass/fail status and ANSI grade.

Extremely precise printing of up to +/-0.2 mm (0.0079 in) virtually eliminates poor-quality, unreadable labels and barcodes.

Operational Intelligence software provides predictive analytics and data on printer health to help managers oversee their entire printer fleet and proactively prevent issues, ensuring maximum uptime.

Smart printing capability allows users to configure and print without the need for a host computer.

Easy to use and maintain, with a color multilingual touchscreen interface and quick side-loading design.

Honeywell

PX940 Series Technical Specifications

STANDARD

Print Method: Thermal Transfer and Direct Thermal

3.5 in color touch LCD

Foldable clear media door

Dual Label Stop Sensor for precision printing

Dual Core 1 GB processor (ARM® Cortex® A9 core)

256 MB Flash memory

1 GB DDR3 SDRAM

Multi-GB USB memory device (FAT16/FAT32)

Internal real-time clock

MECHANICAL

PX940/PX940 Verifier Version:

- **L x H x W:** 506 mm x 398.7 mm x 261 mm (19.92 in x 15.70 in x 10.28 in)
- **Weight:** 23 kg (50.71 lbs)

PX940:

- **Weight:** 23 kg (50.71 lbs)

PX940 Verifier Version:

- **Weight:** 23.5 kg (51.81 lbs)

PRINT SPECIFICATIONS

Print Resolution:

- **At 203 dpi:** 8 dots/mm
- **At 300 dpi:** 11.8 dots/mm
- **At 600 dpi:** 23.6 dots/mm

Print Speed:

- **At 203 dpi:** 50–350 mm/s (2–14 ips)
- **At 300 dpi:** 50–300 mm/s (2–12 ips)
- **At 600 dpi:** 25–150 mm/s (1–6 ips)

Maximum Width:

- **At 203 dpi:** 108 mm (4.25 in)
- **At 300 dpi:** 105.7 mm (4.16 in)
- **At 600 dpi:** 105.6 mm (4.16 in)

Maximum Continuous Print Length:

- **At 203 dpi:** 4.8 m (15.75 ft)
- **At 300 dpi:** 2.2 m (7.22 ft)
- **At 600 dpi:** 0.55 m (1.81 ft)

BARCODE VERIFIER SPECIFICATION

(PX940 Verifier Version only)

Scan Resolution: 600 dpi

Maximum Scan Width: 108 mm (4.25 in)

Light Source: 660 nm

Maximum Verification Speed:

- **At 203 dpi & 300 dpi:** 250 mm/s (10 ips)
- **At 600 dpi:** 150 mm/s (6 ips)

Barcode Orientation: All directions

Barcode Verification Modes: Linear (1D) barcode verification conforming to ISO/IEC 15416-2016; 2-Dimensional (2D) barcode verification conforming to ISO/IEC 15415-2011; Read/No Read Barcode verification

Minimum Linear (1D) Bar Width: 10 mils (0.254 mm)

Minimum 2D Cell Size: 10 mils (0.254 mm)

Supported 1D Symbologies: Code 39, HIBC 39, Code 93, Code 128, ISBT 128, HIBC 128, EAN-128, GS1-128, EAN-8, EAN-13, UPC-A, UPC-E, Interleaved 2 of 5, ITF-14, SCC-14, RSS14E, GS1 Databar Expanded

Supported 2D Symbologies: Data Matrix, ISBT Data Matrix, QR code

Maximum Verification Length: 304.8 mm (12 in)

Maximum Voiding Length:

- **Batch Print:** 152.4 mm (6 in)
- **On Demand Mode:** 304.8 mm (12 in)

Maximum Number of Barcodes per Label: 32

Minimum Media Opacity: 80%

Maximum Operating Ambient Light: 5,000 lux

Verification Reports: Statistics and detailed reporting is available through printer web page, USB thumb drive, Verifier Integration Interface (VII), or FTP/SFTP

MEDIA SPECIFICATIONS

Media Type: Gap, black mark, tag, hole, notch, or continuous

Maximum/Minimum Width (Label and Liner): 114/20 mm (4.5/0.79 in)

Minimum Label Length:

- **Tear-Off Mode:** 3.0 mm (0.12 in)
- **Self-Strip Mode:** 12.7 mm (0.5 in)
- **Rewind Mode:** 6.0 mm (0.24 in)

Thickness (Label and Liner): 3 mil to 10 mil

Configuration: Roll-fed (wound out only) or fanfold

Label Roll Maximum Diameter: 212.7 mm (8.375 in)

Label Roll Core: 76 mm (3 in) or 388 mm (1.5 in)

RIBBON SPECIFICATIONS

Ribbon Spindle: Both ribbon coated side in and out

Roll Max. Diameter: 80 mm (3.15 in), approximately 450 m (1,476 ft)

Core ID: 25 mm (1 in)

Maximum/Minimum Width (Ribbon and Core): 110/51 mm (4.33/2.0 in)

Type: Wax, mid-range, resin

Genuine Honeywell Media: www.honeywellaidc.com/products/media

INTERFACES

Standard:

USB 2.0 Host (x2)

USB 2.0 Device

Ethernet 10/100 Mbps

RS-232, up to 115.2 KB/s

Bluetooth LE (for Print Set MC only)

Static NFC tag (Bluetooth MAC address)

USER INTERFACE LANGUAGES:

On Color Touch LCD and Web Interface: English, Italian, French, Spanish, Portuguese, German, Russian, Chinese Traditional and Simplified, Korean, Japanese, Thai

POWER SUPPLY

200 watt rated power supply with PFC

AC Voltage: 100V AC to 240V AC, 50 Hz to 60 Hz

OPERATING ENVIRONMENT

Operating Temperature: +5°C to +40°C (+41°F to +104°F)

Storage Temperature:

- **PX940:** -20°C to +70°C (-4°F to +158°F)
- **PX940 Verifier Version:** -20°C to +60°C (-4°F to +140°F)

Humidity: 20% to 85% non-condensing

ACCESSORIES

Verifier Calibration Card (applicable to PX940 Verifier Version only)

Wireless Board (IEEE 802.11 a/b/g/n/ac)

Parallel Board (IEEE 1284)

Applicator Interface Board

Industrial Interface Board

Peel Off module (factory configurable)

Rewinder module (factory configurable)

1.5 in non-collapsible inner core diameter on media supply and rewinder take-up (factory configurable)

SOFTWARE

Printer Command Languages:

- Fingerprint (FP)
- Direct Protocol (DP)
- Intermec Printer Language (IPL) support on 203 dpi and 300 dpi only
- ZSim2 (ZPL-II)
- DPL
- XML-enabled for SAP® AII and Oracle® WMS

Applications/Drivers: InterDriver Windows® printer driver, CUPS driver for Linux, Honeywell Device Types for SAP, Honeywell label design and print package

Smart Printing Languages:

- **Honeywell C# for Printers:** Smart Printing Developer Resource Kit; write apps with .NET-compatible development environments; barcode verification disabled when running C#

Configuration and Device Management Support: Print Set 5 for printer configuration; sophisticated web interface for configuration, upgrades, and 1:1 management; Print Set MC (Android™ and Apple® iOS) for printer configuration and AR user guide via Bluetooth LE only

PX940 Series Technical Specifications

BARCODES/FONTS/GRAPHICS

Barcode 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: Monotype font engine; non-Latin fonts available through WTLE

Graphics: Supports PCX, PNG, GIF, and BMP file formats. Other formats supported with Label Generation Tools.

REGULATORY APPROVALS

RoHS Compliant, CE (EN55032 Class B*), FCC Class B*, Energy Star 2.0 Qualified

For more countries compliant, please contact your local sales office.

***Note:** Implemented on printer serial number starting with 19301B087C.

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.

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