Honeywell
THE POWER OF CONNECTED | Printers

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PX940 with Integrated Label Verification

High-Performance Industrial Printer

The PX940 family of high-performance industrial printers 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 series prints barcodes that are defect-free and 100% accurate every time. The fully integrated verifier allows for quick setting up even when printing and verifying different labels.

With pass/fail and ANSI grades from 1 to 4, 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 +/- 0.3 mm (0.012 in). The trend toward miniaturization requires printing on smaller and smaller labels. The PX940 will print accurately on small labels, edge to edge with little error tolerance.

The PX940 printers are 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® and smart printing capability, in which users can configure and fine-tune settings 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, and easy printhead and tool-free platen roller replacement, help minimize downtime and maintenance needs.



With integrated label verification technology and Operational Intelligence software, the PX940 industrial printer gives customers error-free printing, predictive analytics, and a lower overall cost of ownership.

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.

FEATURES & BENEFITS

Integrated label verification technology checks and ensures that labels print accurately every time; instantly notifies you of pass/fail status and ANSI grade.

Extremely precise printing of up to +/-0.3 mm (0.012 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 you to configure settings on the printer without the need for a host computer.

Easy to use and maintain, with a color multilingual touchscreen interface, quick side-loading design, and a built-in printhead cleaning routine that provides optimal print quality and a longer printhead life.

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

PX940A/PX940V (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)
PX940A:
Weight: 23 kg (50.71 lbs)
PX940V (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
Print Speed:
At 203 dpi: 50–350 mm/s (2–14 ips)
At 300 dpi: 50–300 mm/s (2–12 ips)
Maxium Width:
At 203 dpi: 108 mm (4.25 in)
At 300 dpi: 105.7 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)

BARCODE VERIFIER SPECIFICATION

(PX940 Verifier Version)
Scan Resolution: 600 dpi
Maximum Scan Width: 108 mm (4.25 in)
Light Source: 660 nm
Maximum Verification Speed: 100 mm/s (4 ips)
Barcode Orientation: Picket or Ladder
Barcode Verification Modes: Linear (1D) barcode verification conforming to ISO/IEC 15146-2016; 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: 15 mils (0.381 mm)
Supported Symbologies: Code 39, HIBC 39, Code 128, ISBT 128, HIBC 128, EAN 8, EAN 13, EAN 128, UPC A, UPC E, Interleaved 2 of 5, ITF 14, Data Matrix, ISBT Data Matrix
Maximum Verification Length: 304.8 mm (12 in)
Maximum Voiding Length: 152.4 mm (6 in)
Maximum Number of Barcodes per Label: 32
Minimum Media Opacity: 80%
Maximum Operating Ambient Light: 5000 lux
Verification Reports: Statistics and detailed reporting is available through printer web page.

MEDIA SPECIFICATIONS

Media Type: Gap, black mark, tag, hole, notch, or continuous
Max./Min. Width (Label and Liner): 114/20 mm (4.5/0.79 in)
Min. 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 or fanfold
Label Roll Max. Diameter: 212.7 mm (8.375 in)
Label Roll Core: 76 mm (3 in)

RIBBON SPECIFICATIONS

Ribbon Spindle: Both ribbon coated side in and out
Roll Max. Diameter: 80 mm (3.15 in), approx. 450 m (1,476 ft)
Core ID: 25 mm (1 in)
Max./Min. Width (Ribbon and Core): 110/51 mm (4.33/2.0 in)
Type: Wax, mid-range, resin
Genuine Honeywell Media: www.honeywellaidc.com/media

INTERFACES

Standard:
USB 2.0 Host (x2)
USB 2.0 Device
Ethernet 10/100 Mbps
RS-232, up to 115.2 KB/s
Static NFC tag
Supported Serial Protocols:
Fingerprint/Direct Protocol: XON/XOFF, ENQ/ACK, DSR/DTR, RTS/CTS
IPL: XON/XOFF, Honeywell Std. Protocol

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, 45 Hz to 65 Hz

OPERATING ENVIRONMENT

Operating Temperature: +5°C to +40°C (+41°F to +104°F)
Storage Temperature:
PX940A: -20°C to +70°C (-4°F to +158°F)
PX940V (Verifier Version): -20°C to +60°C (-4°F to +140°F)
Humidity: 20% to 85% non-condensing

PX940 Series Technical Specifications, Continued

ACCESSORIES

Verifier Calibration Card
(applicable to PX940 Verifier Version only)

SOFTWARE

Printer Command Languages: Fingerprint (FP), Direct Protocol (DP), IPL, 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

Verifier features are not included

Configuration and Device Management Support: PrintSet for printer configuration; sophisticated web interface for configuration, upgrades, and 1:1 management

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 A), FCC Class A, Energy Star 2.0 Qualified

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

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

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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