Honeywell

Solaris 7820

Omnidirectional Laser Scanner

Honeywell's Solaris™ 7820 vertical mini-slot scanner increases productivity with an unmatched feature set that aggressively scans high-density codes and fits easily into any existing enclosure found in small-item, high-volume retail environments.

Designed to increase system output and lower the total cost of ownership, the 7820 reduces on-site service costs and downtime in convenience, drug, specialty, liquor, and grocery store environments.

With an extended depth of field and advanced decoding software, cashiers can scan all standard bar codes on the first pass with minimal concern for orientation or print quality.

Multiple on-board interfaces make the 7820 compatible with most POS systems, minimizing the efforts associated with device management. The 7820 further simplifies integration by drawing power directly from the host's 12-volt USB or serial port.

Unlike other comparable devices, the 7820 includes a troubleshooting visual diagnostic indicator. For investment protection, every scanner comes standard with an integrated RF EAS antenna and the capability to perform interlock with either Checkpoint or Sensormatic.

The 7820 sets itself apart from the field with a multifunctional RS232 auxiliary port that provides a single point of communication for either a hand-held scanner or an external scale.

Honeywell's 7820 comes with one of two flex-pole stands for countertop or wall-mounted functions. For harsh checkout environments, the 7820 provides an optional reinforced protective window.



Features

- **Reads 5.0 mil bar codes:** Aggressively decodes high-density bar codes and optimizes checkout procedures
- **Multiple Interfaces:** Multiple on-board interfaces make the 7820 compatible with most POS systems, minimizing the efforts associated with device management
- **Diagnostic Indicator:** Enables fast and easy troubleshooting and decreases downtime
- **Field-Replacable Window:** Minimizes downtime with quick and easy in-lane replacement of protective window
- **Draws Power from Host Through USB or Serial Ports (12V):** Saves space and money by reducing the number of cables

Solaris 7820 Technical Specifications

Mechanical	
Dimensions (LxWxH)	92 mm x 152 mm x 152 mm (3.6˝ x 6.0˝ x 6.0˝)
Weight	700 g (24.7 oz)
Electrical	
Input Voltage	12 VDC ± 0.25 V
Operating Power	3.8 W (320 mA @ 12 V) with AUX scanner: 4.8 W (400 mA @ 12 V)
Standby Power	1.2 W (100 mA @ 12 V)
Host System Interfaces	USB, RS232, Keyboard wedge, IBM 46xx (RS485)
Auxiliary Ports	RS232: Secondary Scanner or Scale, EAS Interlock
Environmental	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Environmental Sealing	Sealed to resist airborne particulate contaminants
Light Levels	4842 Lux
Scan Performance	
Scan Pattern	Omnidirectional: 5 fields of 4 parallel lines
Scan Speed	1800 scan lines per second
Print Contrast	35% minimum reflectance difference
Pitch, Skew	60°, 60°
Decode Capabilities	Reads standard 1D and GS1 DataBar symbologies
Warranty	2 year factory warranty

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



Typical Performance*	
Narrow Width	Depth of Field
5.2 mil	0 mm - 45 mm (0˝ - 1.8˝)
7.5 mil	0 mm - 150 mm (0˝ - 6.0˝)
10.4 mil	0 mm - 230 mm (0˝ - 9.0˝)
13 mil	0 mm - 255 mm (0˝ - 10.0˝)
26 mil	0 mm - 280 mm (0˝ - 11.0˝)

*Resolution: 5 mil (0.125 mm)
*Performance may be impacted by bar code quality and environmental conditions

For more information:
www.honeywellaidc.com

Honeywell Scanning & Mobility
9680 Old Bailes Road
Fort Mill, SC 29707
800.582.4263
www.honeywell.com

Honeywell

7820-DS Rev A 08/10
© 2010 Honeywell International Inc.