Honeywell

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MS7820 Solaris

Omnidirectional Laser Scanner

Honeywell's MS7820 Solaris™ 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 MS7820 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 MS7820 compatible with most POS systems, while automatic detection of the interface cable expedites system configuration. The MS7820 further simplifies integration by drawing power directly from the host's 12-volt USB or serial port.

Unlike other comparable devices, the MS7820 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 MS7820 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 external scale.

Honeywell's MS7820 comes with one of two flex-pole stands for countertop or wall-mounted functions. For harsh checkout environments, the MS7820 provides an optional reinforced protective window.

For more information on the MS7820 Solaris omnidirectional laser scanner, please visit www.honeywell.com/aidc

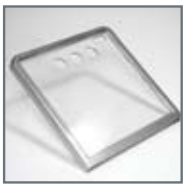
Features

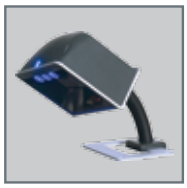
- **Reads 5.0 mil bar codes:** Aggressively decodes high-density bar codes and optimizes checkout procedures
- **Multiple Interfaces:** Provides infrastructure protection and ensures compatibility with most POS systems
- **Diagnostic Indicator:** Enables fast and easy troubleshooting and decreases downtime
- **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

MS7820 Solaris Technical Specifications

Operational	
Light Source	Visible Laser Diode 650 nm ± 10 nm
Visual Indicators	Steady Blue = ready to scan; Flashing Blue = good read; 7-Segment Display = diagnostic indicator
Host System Interfaces	USB, RS232, Keyboard wedge, IBM 46xx (RS485)
Auxiliary Ports	RS232: Secondary Scanner or Scale, EAS Interlock
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 (typical)	3.8 W (320 mA @ 12 V) with AUX scanner: 4.8 W (400 mA @ 12 V)
Standby Power (typical)	1.2 W (100 mA @ 12 V)
DC Transformers	Class 2: 12 VDC @ 1.25 A
Laser Class	Class 1: IEC60825-1, EN60825-1
EMC	FCC Part 15, IEC-003, EN55022 Class B
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 (450 foot-candles)
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. Visit www.honeywell.com/aidc/symbologies for details.
Warranty	2 year factory warranty

For more information:
www.honeywell.com/aidc


Protective window
MLPN 46-00867


Flex-pole stand
MLPN 46-00868

Wall-mount stand
MLPN 46-00869

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

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