

# 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 <a href="http://www.honeywell.com/aidc/symbologies">www.honeywell.com/aidc/symbologies</a> for details.
Warranty	2 year factory warranty



For more information:  
[www.honeywell.com/aidc](http://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

## Honeywell Security & Data Collection

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