MS1890 Focus

Industrial-Grade Area-Imaging Scanner

Honeywell's MS1890 Focus® industrial-grade area-imaging scanner provides unmatched scanning performance in challenging environments.

MS1890 Focus maximizes productivity with a set of features previously unavailable in rugged area imagers.

Engineered to withstand two-meter falls, this IP54-rated omnidirectional scanner precisely executes applications for retail back-of-store, manufacturing, transportation and logistics. It excels in punishing locales such as: dusty warehouses, steamy storerooms, rainy loading docks and freezing distribution centers.

The MS1890 Focus outperforms the field in decoding all standard bar codes in a single flash with minimal concern for orientation or print quality. It reads codes damaged, worn or wrapped in clear plastic.

The MS1890 Focus further separates itself with patented CodeSelect™ technology which allows the scanner to capture up to seven bar codes in a single flash and then decode them in any predetermined order.

Honeywell's exclusive TotalFreedom™ architecture expands scanner funtionality by allowing formatting, parsing and decoding plug-ins to be loaded directly to the MS1890 instead of the host system.

For more information on the MS1890 Focus industrial-grade area-imaging scanner, please visit www.honeywell.com/aidc

Features

- **IP54-rated:** Withstands exposure to dirt, dust and splashing water
- **Durable Metal Hook:** Creates safer working conditions by attaching to universal tether
- **TotalFreedom:** Expands scanner functionality by allowing image processing, decoding and formatting plug-ins to be loaded directly to the scanner instead of the host system

- **Flexible Licensing Solution:** Meets diverse scanning requirements by offering models with limited decoding capabilities—purchase decoding licenses to enable additional functionality as the need arises
- **Omnidirectional Scanning:** Eliminates need to orientate scanner to bar code
- **CodeSelect:** Scans up to 7 bar codes in a single flash and outputs data in any predetermined order

MS1890 Focus Technical Specifications

Operational

Light Source	Visible Red LED 645 nm ± 7.5 nm
Visual Indicators	Blue = ready to scan; White = good read; Yellow = automatic scanning
Host System Interfaces	USB, RS232, Keyboard Wedge, IBM 46xx (RS485)

Mechanical

Dimensions (LxWxH)	183 mm x 79 mm x 111 mm (7.2″ x 4.4″ x 3.1″)
Weight	284 g (10 oz)

Electrical

Input Voltage	5 VDC ± 0.25 V
Operating Power (typical)	2 W (400 mA @ 5 V)
Standby Power (typical)	800 mW (160 mA @ 5 V)
DC Transformers	Class 2: 5.2 VDC @ 1 A
LED Class	Class 1: IEC60825-1, EN60825-1
EMC	FCC Part 15, IEC60825-1, EN55022 Class A

Environmental

Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	0% to 95% relative humidity, non-condensing
Drop	Designed to withstand 2 m (6.5′) drops
Environmental Sealing	IP54
Light Levels	100,000 Lux (9,290 foot-candles)

Scan Performance

Scan Pattern	Area Image (1280 x 512 pixel array)
Motion Tolerance	10 cm/s (4 in/s) for 13 mil UPC at optimal focus
Scan Angle	Horizontal: 50°; Vertical: 20°
Print Contrast	20% minimum reflectance difference
Pitch, Skew	75°, 75°
Decode Capability	Reads standard 1D, PDF, 2D, Postal and OCR symbologies. Visit www.honeywell.com/aidc/symbologies for details. *Note: Decode capabilities dependent on kit configuration
Warranty	3 year factory warranty

Typical Performance*	
Narrow Width	Depth of Field
5.2 mil (1D)	51 mm - 108 mm (2.0″ - 4.3″)
7.5 mil (1D)	32 mm - 184 mm (1.3″ - 7.3″)
13 mil (1D)	0 mm - 300 mm (0″ - 11.8″)
10 mil (PDF)	0 mm - 216 mm (0″ - 8.5″)
15 mil (PDF)	0 mm - 305 mm (0″ - 12.0″)

*Resolution: 1D: 5 mil (0.127 mm)
               2D: 9 mil (0.229 mm)
*Performance may be impacted by bar code quality and environmental conditions

For more information:

www.honeywell.com/aidc

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