

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 functionality 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	LED 645 nm ± 7.5 nm
Audible Indicators	7 tones or no beep
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)	111 mm x 79 mm x 183 mm (4.4" x 3.1" x 7.2")
Weight	284 g (10 oz)

Electrical

Input Voltage	5 VDC ± 0.25 V
Operating Power	2 W (400 mA @ 5 V) - typical
Standby Power	800 mW (160 mA @ 5 V) - typical
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
Sensor Resolution	1.3 megapixel
Motion Tolerance	10 cm/s (4 in/s) for 13 mil UPC @ 10 cm (4.0") distance
Scan Angle	Horizontal: 50°; Vertical: 20°
Print Contrast	20% minimum reflectance difference
Tilt, Pitch, Skew	360°, 75°, 75°
Decode Capability	1D: Code 39, Code 93, Code 128, UPC/EAN/JAN, Code 2 of 5, Code 11, Codabar, MSI Plessey, GS1 DataBar, Telepen, Trioptic *PDF: PDF417, MicroPDF417 *2D: QR Code, Micro QR Code, Data Matrix, Aztec Code, Maxicode, Codablock, Composite Code, POSTNET, PLANET, UPU, Intelligent Mail, Canada Post, Australia Post, Japanese Post, Royal Mail RM4SCC, KIX Code *OCR: OCR-A, OCR-B, E-13B MICR *Note: Enable by purchasing decoding license



For more information:

www.honeywell.com/aidc

Security & Data Collection

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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: 5 mil (0.127 mm)	
*Performance may be impacted by bar code quality and environmental conditions	



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