



MS1890 **Focus**[®]

Metrologic's MS1890 Focus industrial-grade area imager featuring patented FirstFlash™ technology provides unmatched scanning performance in challenging environments.

Metrologic's 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 imager 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 Code Select™ technology which allows the imager to capture up to seven bar codes in a single flash and then decode them in any pre-determined order.

TotalFreedom™, an open system architecture, is also available with the MS1890. TotalFreedom offers unlimited possibilities for developing value-added custom application modules embedded directly into the imager instead of the host system.

For image-capture applications, the MS1890 Focus provides a wide array of outputs by combining a high-resolution CMOS sensor with a powerful processor.

With its arsenal of features and an all-inclusive kit, the MS1890 Focus is the all-in-one scanner built to meet the needs of any demanding environment.



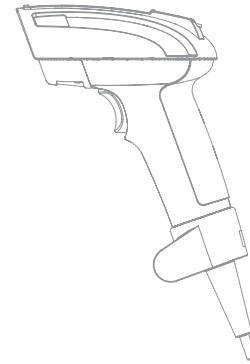
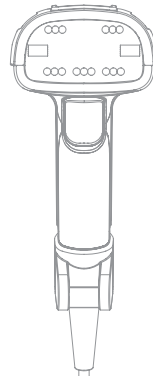
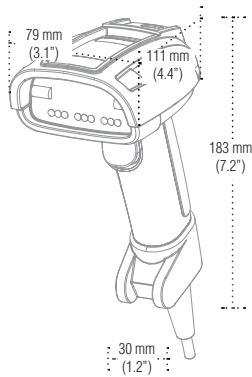
www.metrologic.com/MS1890

Features

- IP54-rated
- FirstFlash™
- Code Select
- Omnidirectional scanning
- Durable metal hook

Benefits

- Withstands exposure to dust and splashing water
- Increases productivity by scanning all standard bar codes on first LED flash
- Scans up to 7 bar codes in one scan and outputs data in any pre-determined order
- Eliminates need to orientate device to bar code
- Creates safer working conditions by attaching to universal tether



OPERATIONAL

Light Source	LED 645nm ± 7.5 nm
Decode Capability	Autodiscriminates all standard 1D, GS1 DataBar™, PDF417, microPDF, MaxiCode, Data Matrix, QR Code, UCC, EAN Composites, Postals, Aztec
System Interfaces	PC Keyboard Wedge, RS232, Stand Alone Keyboard, USB, IBM
Beeper Operation	7 tones or no beep
Indicators (LED)	Blue=unit powered, ready to scan; White=good read

MECHANICAL

Height	183 mm (7.2")
Depth	111 mm (4.4")
Width	Handle - 30 mm (1.2"); Head - 79 mm (3.1")
Weight	284 g (10 oz)
Termination	10 pin modular RJ45
Cable	Standard 2.7 m (9') coiled; optional 2.1 m (7') straight

ELECTRICAL

Input Voltage	5 V
Power	Operating: 2 W (peak); Standby: 800 mW
Current	Operating: 400 mA (peak); Standby: 160 mA
DC Transformers	5 V @ 1 A
LED Class	Class 1; IEC60825-1:1993/A1:1997+A2:2001 Class 1; EN60825-1:1994/A11:1996+A2:2001
EMC	FCC Class A, IEC60825-1 LED Safety
ESD Protection	Functional after 100 15kV discharges
LED Protection	Functional after 100 15 kV discharges

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
Light Levels	Up to 100,000 Lux (9,290 footcandles)
Shock	Designed to withstand multiple 2 m (6.6') drops to concrete
Contaminants	Protected against dust and splashing water
IP Rating	IP54

Product Colors Available

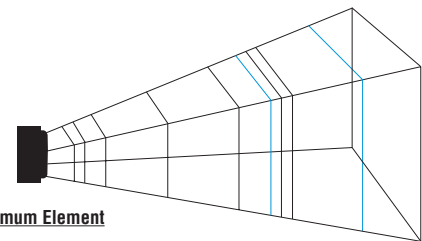


MS1890 is available in a variety of other colors with minimum quantity purchase.

SCAN PERFORMANCE

Depth of Scan Field (programmable)	0 mm - 300 mm (0" - 11.81") for 0.33 mm (13 mil) bar codes
Width of Scan Field	49 mm W x 19 mm H (1.9" W x 0.8" H) @ 20 mm (0.8"); 264 mm W x 106 mm H (10.4" W x 4.2" H) @ 280 mm (11")
Minimum Element Width	1D: 0.127 mm (5 mil); 2D: 0.254 mm (10 mil)
Image Resolution	1280 x 512 pixels
Print Contrast	20% minimum reflectance difference
Pitch, Skew	75°, 75°

Scan Area



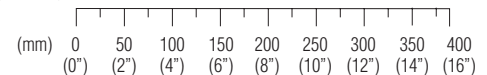
Bar Code Minimum Element

1D

- 0.132 mm (5.2 mil)
- 0.190 mm (7.5 mil)
- 0.264 mm (10.4 mil)
- 0.330 mm (13 mil)
- 0.533 mm (21 mil)

PDF

- 0.254 mm (10 mil)
- 0.381 mm (15.9 mil)



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