

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 CodeSelect™ 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 imaging 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™

- CodeSelect™

- Omnidirectional scanning

- Durable metal hook

Benefits

Withstands exposure to dust and splashing water

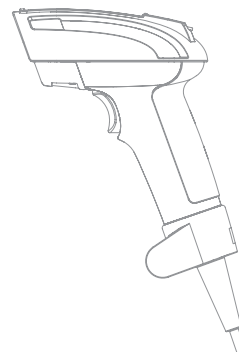
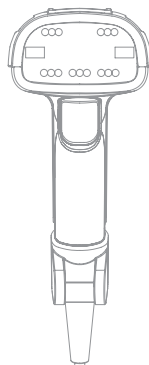
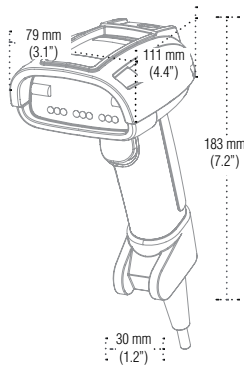
Increases productivity by scanning all standard bar codes on first LED flash

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

MS1890



OPERATIONAL

Light Source	LED 645nm \pm 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
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EMC	FCC Class A, IEC60825-1 LED Safety
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ESD Protection	Functional after 100 15kV discharges
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LED Protection	Functional after 100 15 kV discharges
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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

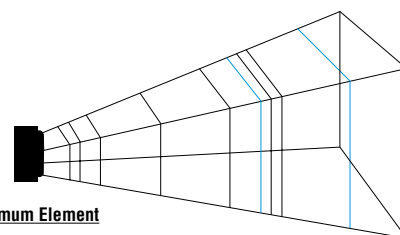


MS1890 is available in a variety of other colors with minimum quantity purchase.

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



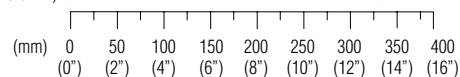
Bar Code Minimum Element

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)



Revision: All



Sunrise 2005
Compliant

ISO 9001:2000

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