Metrologic ®
INDUSTRIAL

MS1890 **Focus** ®

Metrologic's MS1890 Focus industrial-grade area imager featuring patented First*Flash*™ 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.

Total*Freedom*™, an open system architecture, is also available with the MS1890. Total*Freedom* 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.
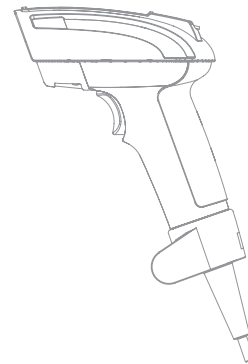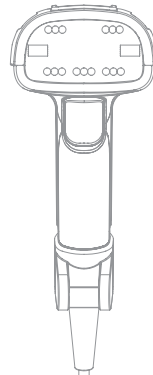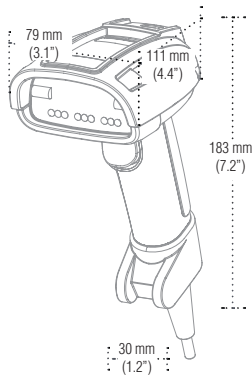
www.metrologic.com/MS1890

Features	Benefits
• IP54-rated	Withstands exposure to dust and splashing water
• First*Flash*™	Increases productivity by scanning all standard bar codes on first LED flash
• Code Select	Scans up to 7 bar codes in one scan and outputs data in any pre-determined order
• Omnidirectional scanning	Eliminates need to orientate device to bar code
• Durable metal hook	Creates safer working conditions by attaching to universal tether

Dimensions: 79 mm (3.1"), 111 mm (4.4"), 183 mm (7.2"), 30 mm (1.2")

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

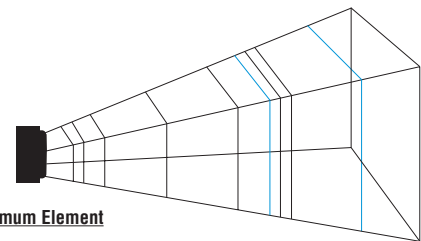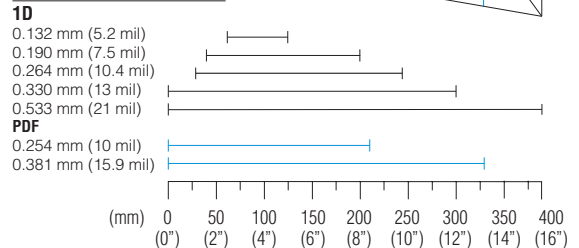|		
Product Colors Available	Onyx Black / Orange	MS1890 is available in a variety of other colors with minimum quantity purchase.

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)

(mm) 0 (0") 50 (2") 100 (4") 150 (6") 200 (8") 250 (10") 300 (12") 350 (14") 400 (16")

RoHS | USB UNIVERSAL SERIAL BUS | CE | c UL us LISTED | Sunrise 2005 Compliant

DS1890

BarcodesInc

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About BarcodesInc

Who We Are

BarcodesInc is North America's leading provider of •]^&ãæ]ã^åÁåãã̃ãzą̃ÁåææeǽÁ@eå̧ æé^Áæ}åÁ^[-ç̧æé^Á[|ˇ̌œ]}•ĚÁU˘¦Á p¦[å˘&œÁą̃&|˘å^Á́áæé&[å^Á&æ}^¦•ĚÁ[àą̃^Á&|{]˘œ]*Á́å^çã&•ĚÁ́́a^}ãæ̃åæœ]}&eåÁ˘̌ã]{^}åĚÁ[ą̃åĚ-Ëæ̧^Á •^•c^{•Ěą̃æ̧å&[å^Á́æ̧æ̃^|Áæ̧åÁ^&̌ą̃oÁ́¦ą̃c\•Ěą̃æ̧åÁ8|}•ˇ{ æ̧æ̃|^•Ěæ̧å|Á-Á@&Ě@A@•||Á&ˇ•œ]{^¦•Á̂̈g]]¦[ç^Á́¦¦[å˘&œã̃cÁ æ̧}åÁ̧̈¦[-ã̃ãdã̃ãcĚÁU˘¦Á¦[å˘&̃ć̃Á[|ˇ̌œ]}•Á^¢]^¦óA@œç^Á́æ̧^^Á^˘ç̃ą̃*Á[c@ÁA{ æ̧|Á́æ̧˘•ãÁ^••^•Áæ̧åÁ́æ̧æ̃*^Á́}c^|]¦ã•^Á •ã̃&^ÁFJJIÈ

We Owe Our Success To You

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Why Choose BarcodesInc?

Dedicated Account Management

Our Account Managers will not compromise when it comes to providing you top-notch service. Your Account Manager is the primary point of contact for your business and makes it a priority to get to know you, your company and all your needs.

Highly-Trained Technical Support

Our technical staff has the broadest knowledge and every significant certification in the industry. One of our friendly experts is always available to suggest products and solutions for any situation.

Incredible Value

Our purchasing power means big savings for you. Whatever your project, our team will work hard to deliver a solution that fits your budget.

Largest Inventory in the Industry and Same-Day Shipping

Whatever your barcoding, mobile computing, or printing needs, we will fill your order and ship it the same day.

Premier Access to Top Manufacturers

BarcodesInc maintains strong strategic partnerships with the leading manufacturers in barcoding, mobile computing, printing and RFID.

Responsive Customer Service

Every phone call and email is responded to promptly, completely and accurately by our customer service team.

Easy Returns

Damaged, defective or incorrectly ordered goods may be returned without hassle.

BRANDS

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ZEBRA
Intermec
Honeywell
DATALOGIC
SATO
datamax·o'neil
EPSON
ELO TOUCHSYSTEMS
star
unitech
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Microsoft
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AND MORE

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