



MS1690 Focus® MS1690 Focus is a high performance hand-held area imager designed for today's retail and industrial markets.

Sunrise 2005 Compliant

MS1690 Focus®

Features

- **Omnidirectional scanning of all standard 1D, RSS, PDF417, microPDF, Composite, Matrix and Postal Codes**
- **Captures and transmits sharp images in a variety of outputs: jpg, bmp, tiff**
- **Rugged housing - build for the toughest industrial environments**
- **CodeGate® technology for easy content selection and scanning**
- **Automatic stand detection feature for convenient in-stand scanning**
- **Firmware update via Flash ROM**

Metrologic's MS1690 Focus is a high performance hand held area imager. This omnidirectional scanner decodes virtually all of today's standard bar codes including 1D, RSS, PDF417, microPDF, EAN/UCC Composite, Matrix and Postal Codes regardless of orientation. For capturing and transmitting images Focus combines a high-resolution CMOS sensor with an extremely powerful processor that provides a wide array of outputs at high rates of speed.

For years, Metrologic has been designing and manufacturing fixed position industrial imaging systems that are used by some of the world's leading parcel handling companies, distribution centers, and postal services. We've taken that core technology and optical design expertise and developed Focus, a hand held device built to

endure today's toughest work environments, packed with the most complete set of features, ease of use, and stylish, modern design.

When designing Focus, the goal was to leap frog the competition and develop a new set of standards providing users unique, time saving, and technological advancements, meeting the needs of today's marketplace and for years to come. We accomplished this challenge and are able to introduce features such as a depth of field that ranges from 0" to 9" for standard 0.33 mm (13 mil) bar codes, stand detection that automatically switches the hand held scanner to a presentation scanner once it is placed in the stand, and let's not forget the object detection sensor that instantly initiates scanning, via CodeGate, once an object is within the scanner's field of view.



MS1690 FOCUS®

OPERATIONAL

Light Source	LED 645 nm ± 7.5 nm
Depth of Field (programmable)	0 mm - 230 mm (0" - 9") for 0.33 mm (13 mil) bar codes
Field of View	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 (11.0")
Minimum Bar Width	0.127 mm (5.0 mil)
Decode Capability	Autodiscriminates all standard 1-D, RSS, PDF417, microPDF, MaxiCode, Data Matrix, QR Code, UCC, EAN Composites, Postals, Aztec (Image Transfer) - BMP, TIFF or JPEG output
Resolution	1280 x 512
System Interfaces	PC Keyboard Wedge, RS232, Stand Alone Keyboard, USB (Low Speed and Full Speed), IBM
Print Contrast	20% minimum reflectance difference
Pitch, Skew	15°, 15°
Beeper Operation	7 tones or no beep
Indicators (LED)	Blue=unit powered, ready to scan; White=good read; Yellow=in stand

MECHANICAL

Height	183 mm (7.2")
Depth	111 mm (4.9")
Width	Handle - 30 mm (1.2"); Head - 79 mm (3.1")
Weight	225 g (8.0 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)
Power - Standby	800 mW
Current - Operating	400 mA (peak)
Current - Standby	160 mA
DC Transformers	5 V @ 650 mA
EMC	FCC Class A, IEC60825-1 LED Safety
ESD Protection	Functional after 100 15kV discharges

Operating Temperature	0°C to 40°C (32°F to 104°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 1.8 m (6') drops
Contaminants	Sealed to resist airborne particulate contaminants

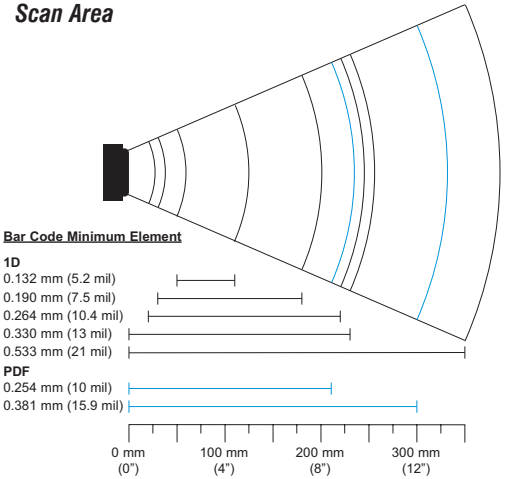
Standard Focus Colors

Sample only, actual colors may vary

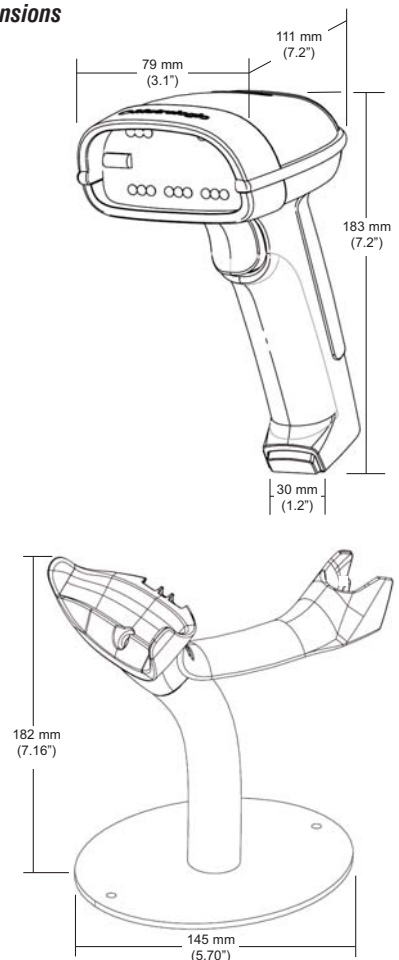
Dark Grey  Black 

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

Scan Area



Dimensions



Specifications subject to change without notice.
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DS1690NOAM

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ISO 9001:2000

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