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

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

**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.

Sunrise 2005 Compliant
**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°
- **Beep 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

**ENVIRONMENTAL**
- **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

Specifications subject to change without notice.

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