



**Metrologic®**

## MS900 Series

### Features

- **Patented automatic trigger**
- **Combination hand-held/fixed projection**
- **Short-range and long-range activation**
- **Superior ergonomics**
- **Rugged and reliable**
- **Easy to program**
- **Low cost**

**Metrologic's MS900 Series** hand-held laser scanners provide versatility and adaptability. In these innovative scanners, Metrologic has engineered the best of two worlds: the increased depth of field, accuracy, and high performance of a laser with the durable construction and low cost of a CCD. The MS900 also has a unique patented infrared sensor and control scheme that provides fully automatic activation and operation for complete hands-free scanning.

The MS900 can be used either as a hand-held scanner or fixed scanner because of its unique design. An operator can simply "wave" the scanner in a natural position across a bar code and the MS900 will scan automatically. This

automatic operation increases worker efficiency and productivity by allowing faster throughput. The versatile MS900 can operate as a "hands-free" scanner when placed in its flexible, fixed stand. An operator can present bar coded items to the MS900 for automatic scanning. Special patents also make it possible to program the scanner for short-range and long-range laser activation in either the hand-held or hands-free mode.

The MS900 series consists of three models: the undecoded MS941; the standard decode MS951; and the MS961 decoded with high density code reading capabilities.



# MS900 Series

## OPERATIONAL

Light Source	Visible Laser Diode 675 nm $\pm$ 5 nm
Depth of Field*	0 mm - 127 mm (0" - 5") for 0.330 mm (13 mil) bar code at default setting
Scan Speed	36 scan lines per second
Scan Pattern	Single scan line
Minimum Bar Width	MS961: 0.127 mm (5.0 mil) MS951: 0.191 mm (7.5 mil) MS941: 0.191 mm (7.5 mil)
Long Range Activation	minimum: 0 mm - 203 mm (0" - 8"); typical: 0 mm - 279 mm (0" - 11")
Short Range Activation	minimum: 0 mm - 76.2 mm (0" - 3"); typical: 0 mm - 127 mm (0" - 5")
Decode Capability	MS951/961: Autodiscriminates all standard bar codes; MS941: Non-decode only
System Interfaces	MS951/961: RS232, Light Pen Emulation, OCIA, IBM 468X/469X, PC Keyboard Wedge, Stand-Alone Keyboard MS941: Decoder dependent
Print Contrast	35% minimum reflectance difference
Number Characters Read	Up to 80 data characters (Maximum number will vary based on symbology and density)
Roll, Pitch, Yaw	42°, 68°, 52°
Beeper Operation	MS951/961: 3 tones or no beep MS941: Decoder dependent
Indicators (LED)	MS951/961: Red = laser on, ready to scan; Green = good read MS941: decoder dependent

## MECHANICAL

Dimensions	205 mm x 63 mm x 24 mm (8.0" x 2.5" x 0.94")
Weight	MS951/961: 177 g (6.20 oz) MS941: 156 g (5.45 oz)
Cable (coiled)	Collapsed: 1.5 m (5'); Extended: 2.4 m (8')

## ELECTRICAL

Input Voltage	5 VDC $\pm$ 0.25 V
Power	MS951/961: 0.8 W MS941: 0.5 W
Operating Current	MS951/961: 165 mA typical @ 5 VDC MS941: 100 mA typical @ 5 VDC
Standby Current	MS951/961: 65 mA typical @ 5 VDC MS941: 30 mA typical @ 5 VDC
DC Transformers	Class 2; 5 VDC @ 300 mA
Laser Class	CDRH: Class II; EN60825-1:1994/A11:1996 Class 1
EMC	FCC Class A, CISPR 22 Class A

## 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	5% to 95% relative humidity, non-condensing
Light Levels	Up to 4842 Lux (450 footcandles)
Shock	Designed to withstand 1.5 m (5') drops
Contaminants	Sealed to resist airborne particulate contaminants
Ventilation	None required

Specifications subject to change without notice.  
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MLPN: DSMS900



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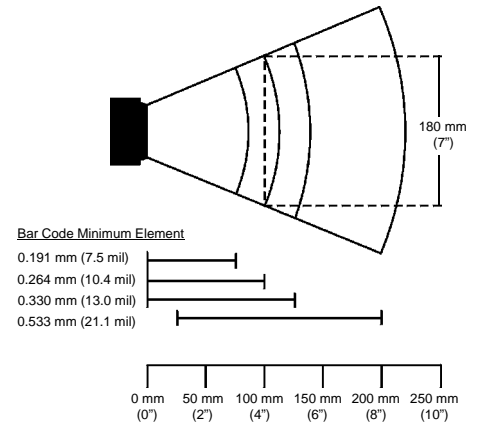
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## Scan Area

### MS951/941



### MS961

