



Metrologic®



Automatic Laser Scanner

Metrologic's MS900 Series hand-held laser scanners provide unsurpassed 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

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**
- **EAS Option**

efficiency and productivity by allowing faster throughput. This added operator comfort reduces the risk of repetitive strain injury.

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.



OPERATIONAL

| | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Light Source | Visible Laser Diode 675 nm \pm 5 nm |
| Depth of Field* | 0 mm - 200 mm (0" - 8") |
| Scan Speed | 36 scan lines per second |
| Scan Pattern | Single scan line |
| Minimum Bar Width | MS961: 0.13 mm (5.0 mil) MS951: 0.19 mm (7.5 mil) MS941: 0.19 mm (7.5 mil) |
| Long Range Activation | minimum: 0 mm - 207 mm (0" - 8"); typical: 0 mm - 280 mm (0" - 11") |
| Short Range Activation | minimum: 0 mm - 76 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 46XX, 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 | 207 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: 142 cm (4.8'); Extended: 213 cm (8') |

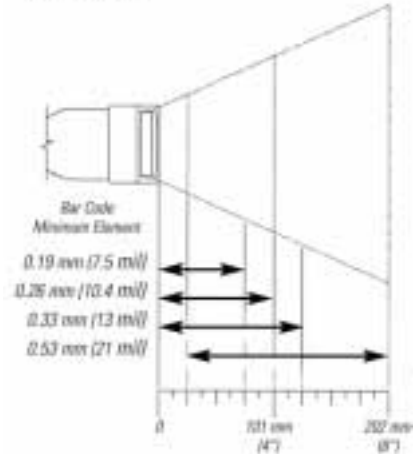
ELECTRICAL

| | |
|-------------------|--------------------------------------------------------------------|
| 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 I |
| EMC | FCC Class A, CISPR 22 Class A |

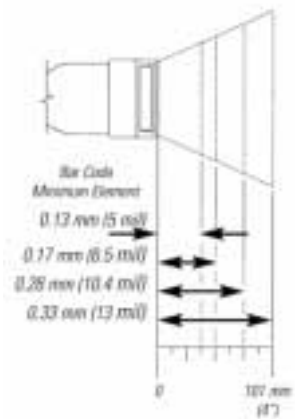
| | |
|-----------------------|----------------------------------------------------|
| Operating Temperature | 0°C to 35°C (32°F to 95°F) |
| Storage Temperature | -40°C to 60°C (-40°F to 140°F) |
| Humidity | 5% to 95% relative humidity, non-condensing |
| Light Levels | Up to 450 footcandles (4844 Lux) |
| Shock | Designed to withstand 1.5 m (5') drops |
| Contaminants | Sealed to resist airborne particulate contaminants |
| Ventilation | None required |

Depth of Field

MS951/941



MS961



*Bar code dependent.
Specifications subject to change without notice.
Printed U.S.A., September 1998



USA
Metrologic Instruments, Inc.
Tel. 1-800-ID-METRO
Fax 1-609-228-8673
info@metrologic.com

Europe
Metrologic Instruments GmbH
Tel. 49-89-89019-0
Fax 49-89-89019-200
metrologic@europe.metrologic.com

South America
Metrologic Instruments
Tel. 55-11-5505-6568
Fax 55-11-5505-1681
info@sa.metrologic.com

Brazil
Metrologic do Brasil Ltda
Tel. 55-11-5505-2396
Fax 55-11-5507-2301
metrolog@br.metrologic.com

Asia
Metrologic Asia (Pte) Ltd
Tel. 65-842-7155
Fax 65-842-7166
ant888@cyberway.com.sg

Metrologic®



www.europe.metrologic.com

Metrologic Instruments GmbH | Dornierstr. 2 | 82178 Puchheim, Germany
Telephone 49-89-89019-0 | Fax 49-89-89019-200 | e-mail metrologic@europe.metrologic.com