Metrologic

MS7120 Orbit® is an aggressive, omnidirectional presentation/handheld laser bar code scanner. Orbit is light-weight, rugged, small in size and BIG in performance.

'99 INDUSTRIAL DESIGN EXCELLENCE AWARDS
BRONZE

MS7120 Orbit®

Features

- *Fully automatic scan operation*
- *PowerLink, user-replaceable cables*
- *Mountable to a wall or under check-writing stands*
- *Customize the depth-of-field for tight scanning environments*
- *Custom edit the bar code data to meet the requirements of the application*
- *Multiple beeper tones*
- *OPOS system compatible using MetrOPOS® driver*
- *Easy programming using MetroSet® Windows-based software or MetroSelect® bar codes*

Metrologic's MS7120 Orbit® is an aggressive, omnidirectional presentation laser bar code scanner. Designed for applications where counter space is at a premium, Orbit is the ideal presentation scanner for retail, convenience, liquor and specialty stores. In addition, Orbit's unique, contoured shape allows it to be picked up and used as a hand-held when scanning large or bulky items. Lightweight and rugged, Orbit is small in size but BIG in performance.

Engineered with a large, easy-to-find sweet spot, Orbit increases first pass read rate for maximum productivity. The scanning head can be tilted vertically a full 30° for added flexibility when scan-ning various sized objects. Orbit has a patented 20-line omnidirectional scan pattern that produces 1,200 scan lines per second. These features increase the scanning throughput, without increasing Orbit's size.

Orbit is engineered for easy configuration and utilizes user-replaceable cables, in order to meet the multiple application needs across the many markets it serves . Data editing or "parsing" is also a standard feature. Parsing enables the encoded information to be manipulated to meet the host system's requirements.

MS7120 Orbit ®

OPERATIONAL

Light Source	Visible Laser Diode 675 nm $\pm$ 5 nm
Laser Power	0.663 mW (peak)
Depth of Scan Field (programmable)	0 mm - 215 mm (0″ - 8.5″) for 0.33 mm (13 mil) bar codes
Width of Scan Field	60 mm (2.4″) @ face; 105 mm (4.1″) @ 216 mm (8.5″)
Scan Speed	1200 scan lines per second
Scan Pattern	5 fields of 4 parallel lines (omnidirectional)
Number of Scan Lines	20
Minimum Bar Width	0.13 mm (5.2 mil)
Decode Capability	Autodiscriminates all standard bar codes; for other symbologies call Metrologic
System Interfaces	PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, IBM 468X/469X, Stand Alone Keyboard, USB
Print Contrast	35% minimum reflectance difference
Number Characters Read	Up to 80 data characters
Roll, Pitch, Yaw	360°, 60°, 60°
Beeper Operation	7 tones or no beep
Indicators (LED)	Green* = laser on, ready to scan * Indicator colors can Red* = good read be reversed

MECHANICAL

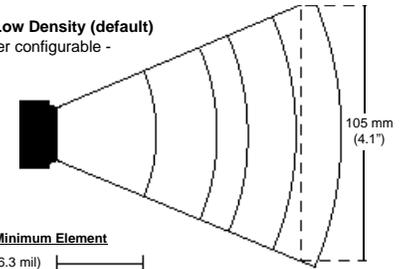|	
Height	150 mm (5.9″)
Depth	105 mm (4.1″)
Width - Orb	80 mm (3.1″)
Width - Base	102 mm (4.0″)
Weight	380 grams (13.4 oz)
Termination	10 pin modular RJ45
Cable	Standard 2.1 m (7′) straight; optional 2.7 m (9′) coiled; for other cables call Metrologic
Tilt - Orb	30° vertical

ELECTRICAL

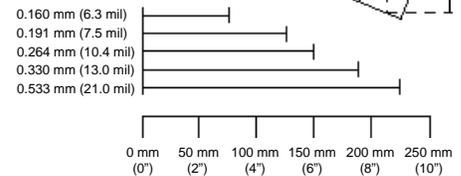|	
Input Voltage	5 VDC $\pm$ 0.25 V
Power	1.1 W typical @ 5 VDC
Operating Current	220 mA
DC Transformers	Class 2; 5.2 V @ 650 mA
Laser Class	CDRH: Class IIa; EN60825-1:1994/A11:1996 Class 1
EMC	Class B: FCC Part 15, ICES-003, European Union EMC Directive

ENVIRONMENTAL

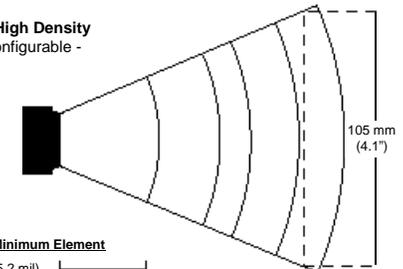|	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Light Levels	Up to 4842 Lux (450 footcandles)
Shock	Designed to withstand 1.2 m (4.0′) drops
Contaminants	Sealed to resist airborne particulate contaminants
Ventilation	None required

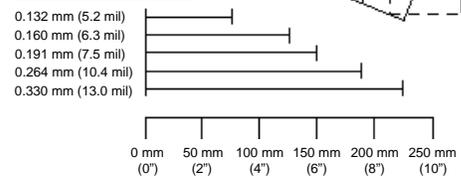## Scan Area

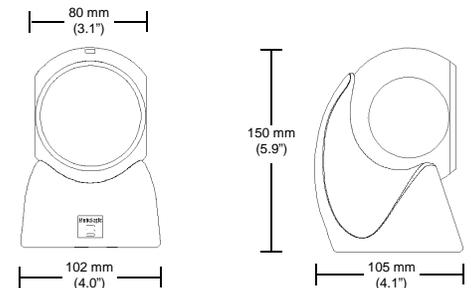**Optimal Low Density (default)**
- user configurable -

105 mm (4.1″)

Bar Code Minimum Element
0.160 mm (6.3 mil)
0.191 mm (7.5 mil)
0.264 mm (10.4 mil)
0.330 mm (13.0 mil)
0.533 mm (21.0 mil)

0 mm (0″) 50 mm (2″) 100 mm (4″) 150 mm (6″) 200 mm (8″) 250 mm (10″)

Optimal High Density
- user configurable -

105 mm (4.1″)

Bar Code Minimum Element
0.132 mm (5.2 mil)
0.160 mm (6.3 mil)
0.191 mm (7.5 mil)
0.264 mm (10.4 mil)
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0 mm (0″) 50 mm (2″) 100 mm (4″) 150 mm (6″) 200 mm (8″) 250 mm (10″)

Dimensions

80 mm (3.1″)

102 mm (4.0″)

150 mm (5.9″)

105 mm (4.1″)

DS7120