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

MS7120 Orbit®

Sunrise 2005 Compliant

Features

- **Fully automatic scan operation**
- **Decodes RSS-14, RSS Limited and RSS Expanded bar codes**
- **User-replaceable, single cable interface to host**
- **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 and JPOS system compatible**

Metrologic's 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 scanning 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 650 nm ± 10 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 1-D and RSS-14 bar codes; for other symbologies call Metrologic
System Interfaces	PC Keyboard Wedge, RS232, OCIA, Light Pen Emulation, IBM 468X/469X, Stand Alone Keyboard, USB (low speed and full speed)
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 Red* = good read * Indicator colors can 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 g (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

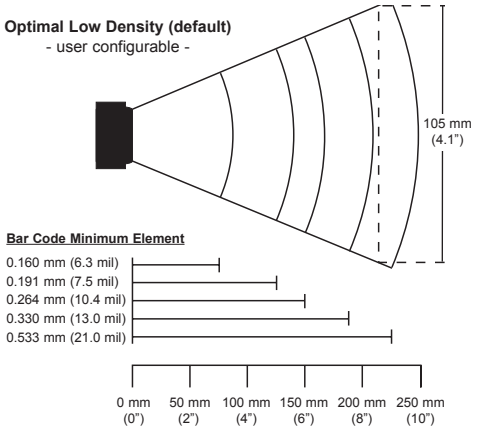
ELECTRICAL

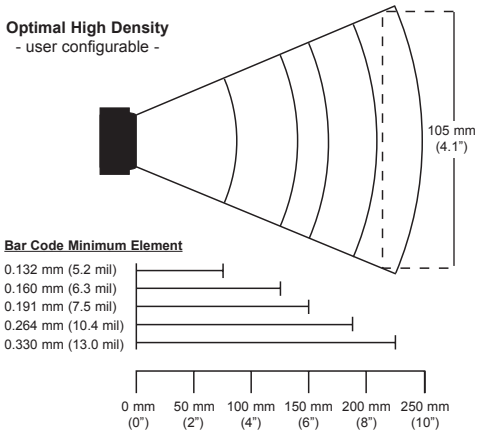
Input Voltage	5 VDC ± 0.25 V
Power	1.1 W typical @ 5 VDC
Operating Current	220 mA
DC Transformers	Class 2; 5.2 V @ 650 mA
Laser Class	CDRH: Class IIa; EN60825-1:1994/A11:1996 Class 1
EMC	Class B: FCC Part 15, ICES-003, European Union EMC Directive

ENVIRONMENTAL

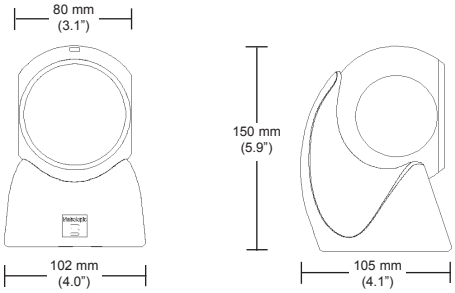
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Light Levels	Up to 4842 Lux (450 footcandles)
Shock	Designed to withstand 1.2 m (4.0') drops
Contaminants	Sealed to resist airborne particulate contaminants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

Scan Area





Dimensions



Orbit is available in the following colors

Pearl White **Light Grey** **Black**

Sample only, actual colors may vary

USB UNIVERSAL SERIAL BUS

c UL us LISTED

Complies with 21 CFR Chapter 1 subchapter J. Class IIa laser product. Avoid long-term viewing of direct laser light. LASERKLASSE 1

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