



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



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 MetroOPOS® 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 ± 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 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 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

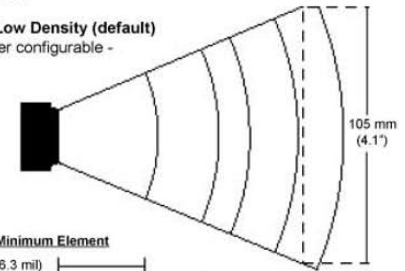
| | |
|-------------------|--|
| Input Voltage | 5 VDC ± 0.25 V |
| Power | 1.1 W typical @ 5 VDC |
| Operating Current | 220 mA |
| DC Transformers | Class 2; 5.2 V @ 650 mA |
| Laser Class | CDRH: Class IIa; EN60825-1:1994/A11:1996 Class 1 |
| EMC | Class B: FCC Part 15, ICES-003, European Union EMC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

ENVIRONMENTAL

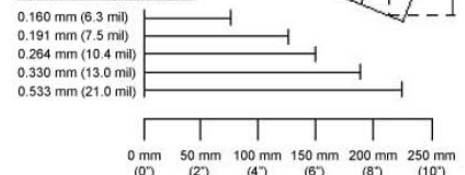
| | |
|-----------------------|--|
| Operating Temperature | 0°C to 40°C (32°F to 104°F) |
| Storage Temperature | -40°C to 60°C (-40°F to 140°F) |
| Humidity | 5% to 95% relative humidity, non-condensing |
| Light Levels | Up to 4842 Lux (450 footcandles) |
| Shock | Designed to withstand 1.2 m (4.0')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

Scan Area

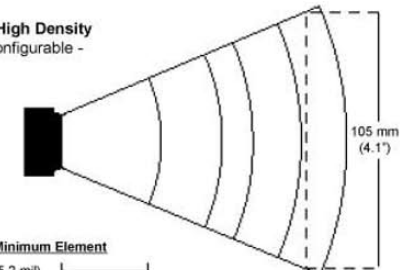
Optimal Low Density (default)
- user configurable -



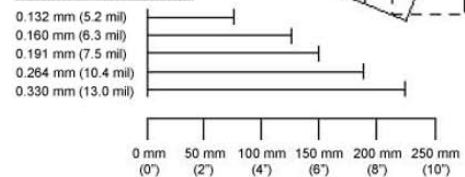
Bar Code Minimum Element



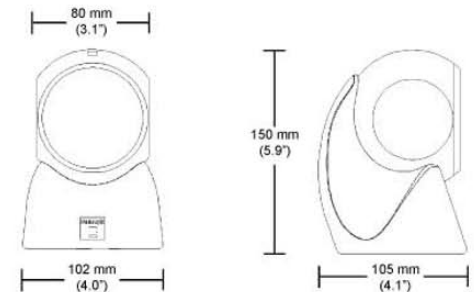
Optimal High Density
- user configurable -



Bar Code Minimum Element



Dimensions



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DS7120