Metrologic®
We really work for you.™

Orbit®

MS7120 **Orbit**®

Orbit® provides aggressive omnidirectional scanning in an award-winning design for retailers seeking an affordable, aesthetically pleasing scanning solution.

The Metrologic Orbit, the all-time, best-selling hands-free omnidirectional scanner presents an innovative, elegant and affordable solution to convenience retail applications where counter space is at a premium.

Compact, lightweight and rugged, Orbit maximizes customer satisfaction and employee efficiency with a patented 20-line scan pattern, an easy-to-find sweet spot and a scan speed of 1,120 scans per second.

The scanner's expanded ability to update its firmware via Metrologic's patented MetroSet®2 configuration software (provided free) safeguards

long-term infrastructure commitments in the event of a change in the POS system or software.

Recipient of multiple design honors, Orbit's award-winning shape enables hand-held scanning of large, bulky items. For added flexibility, the scanning head can be tilted within a 30° range to accommodate objects of various sizes and shapes.

Standard features include user-replaceable cables, Metrologic's patented MetroSelect and MetroSet®2 for easy configuration, data editing and OPOS/JPOS compatibility for easy installation.
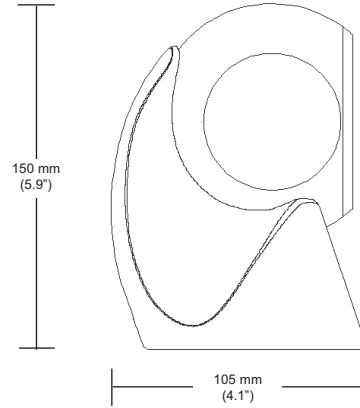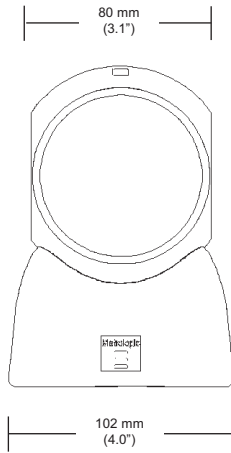
www.metrologic.com/MS7120

FEATURES

BENEFITS

FEATURES	BENEFITS
• 20 scan line omni-directional pattern	Provides aggressive scanning as an additional benefit to hand presentation applications
• Sweet Spot Scanning	Engineered "sweet spot" to optimize scan performance and first pass read rate
• Adjustable scan head	Ability to tilt scanner 30º for targeted scanning or larger products
• Flash ROM	Protects infrastructure investment - update firmware from any PC with MetroSet®2 software provided free from Metrologic
• Automatic scanning operation	Simply present a bar code and the unit scans in a single pass

80 mm
(3.1")

102 mm
(4.0")

150 mm
(5.9")

105 mm
(4.1")

OPERATIONAL

Light Source	Visible Laser Diode 650 nm $\pm$ 10 nm
Laser Power	0.663 mW (peak)
Decode Capability	Autodiscriminates all standard 1-D and RSS-14 bar codes; for other symbologies call Metrologic
System Interfaces	Keyboard Wedge, RS232, Light Pen Emulation, IBM 468X/469X, USB
Number Characters Read	Up to 80 data characters
Beeper Operation	7 tones or no beep
Indicators (LED)	Blue* = laser on, ready to scan White* = 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")
Weight	400 g (14.1 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 W typical @ 5 VDC
Operating Current	200 mA
DC Transformers	Class 2; 5.2 V @ 650 mA
Laser Class 1	EN: 60825-1:1994+A11:1996+A2:2001
EMC	Class B: FCC Part 15, ICES-003, EN 55022 Class B

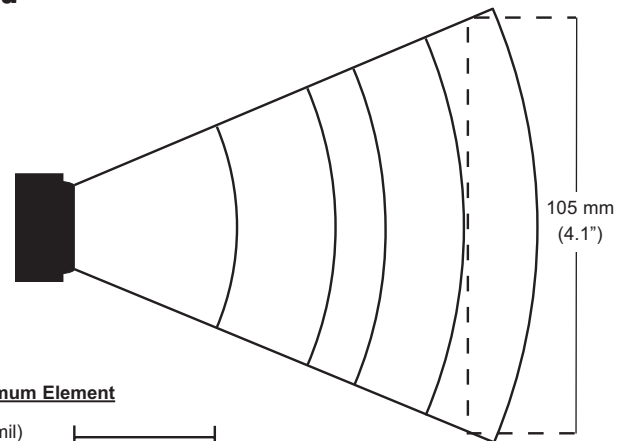## ENVIRONMENTAL

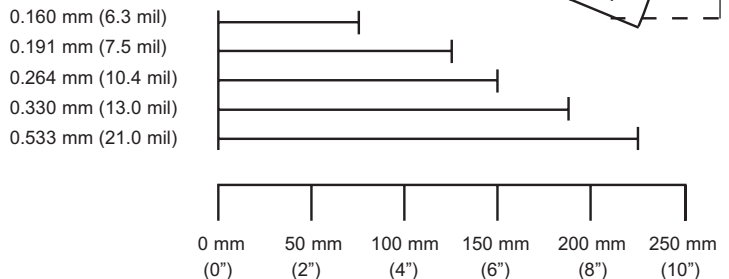|	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Light Levels	Up to 4842 Lux (450 footcandles)
Shock	Designed to withstand 1.2 m (4') drops

SCAN PERFORMANCE

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	1120 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)
Print Contrast	35% minimum reflectance difference
Roll, Pitch, Yaw	360°, 60°, 60°

Scan Area

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")

Product Colors Available

Smoke White   Onyx Black

MS7120 is available in a variety of other colors with minimum quantity purchase

RoHS 2002/95/EC
Revision: K + above

USB®B
UNIVERSAL SERIAL BUS

CE

c(UL)us LISTED

Sunrise 2005 Compliant

DS7120