Features

- Fully automatic scanning operation
- user-replaceable cables
- Easy programming (MetroSet)*
- 7 beeper tones
- Programmable depth of field
- Data editing (Bits 'n' Pieces)*
- Counter or wall mounted options
- Power-save mode
- OPOS driver (MetrOPOS)*

MS7120 Orbit® Product Description

Orbit is an aggressive, omnidirectional presentation laser bar code scanner. Lightweight and rugged, Orbit is small in size but BIG in performance.

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.

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 through-put, 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® Download

PDF Guides and Manuals
- MetroSelect® - Configuration Guide
- MS7120 Installation and User Guide

- View all guides and manuals

Support Software
- MetroSet2® - Scanner Configuration Software
- MetrOPOS® - OPOS Driver
- JavaPOS Driver

- View all software

More Information

Datasheets for Printing CE Certificates
- MS7120 Data Sheet
- Product Comparison: MS700i, MS7120 Orbit, MS7220 ArgusSCAN and MS7320 Invista
- MS7120 CE Certificate
- Data Capture & Collection Guide

Case Studies
- Crate and Barrel
- Planet Fitness

- View all Case Studies

These documents are in PDF format. In order to read and print them you'll need the Acrobat Reader Software. You can get it for free at www.adobe.com.

The Software Utilities are EXE or ZIP files. You can find more information in our Software section.

MS7120 Orbit® Product Specification

OPERATIONAL

Light Source	Visible Laser Diode 650 nm + 5 nm
Depth of Scan Field (programmable)	0 mm - 215 mm (0" - 8.5") at default setting
Scan Speed	1067 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, IBM 46XX, Stand Alone Keyboard
Print Contrast	35% minimum reflectance difference
Number Characters Read	up to 80 data characters

Roll, Pitch, Yaw	0.533 mm (21.0 mil)
Beeper Operation	7 tones or no beep
Indicators (LED)	Green = laser on, ready to scan Red = good read

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

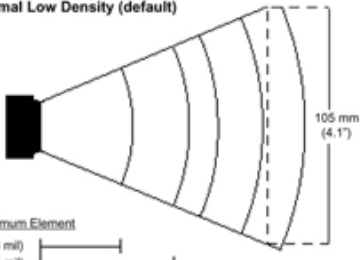|	
Input Voltage	5 VDC + 0.25V
Power	1.1 W
Operating Current	220 mA
DC Transformers	Class 2; 5.2 V @ 650 mA
Laser Class	CDRH: Class IIa; EN 60 825: Class 1
EMC	FCC Class A, EN 55022 Class A

ENVIRONMENTAL

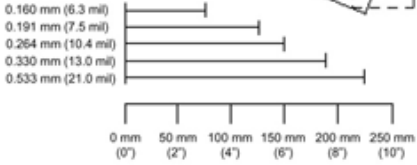|	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Light Levels	Up to 4842 Lux (450 footcandles)
Shock	Designed to withstand 1 m (3.1') drops
Contaminants	Sealed to resist airborne particulate contaminants
Ventilation	None required

ACCESSORIES

Article/Order No.	**The scanner will be delivered including com cable and power supply** **Order No. for Kit: MK 7120-xx (MK=Metrologic Kit)**
54-54000B	Serial Communication Cable (included in Kit)
54-54002B	Keyboard Wedge Communication Cable (included in Kit)
MX009	USB Cable
45-45592	Power Supply UK (220-240/5,2V/650mA) (included in UK Kit)
45-45619	Wall mounting
Warranty	2 years

Product Drawings

Optimal Low Density (default)

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

mm
1"

Bar Code Minimum Element

0.132 mm (5.2 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")

79 mm (3.1")

150 mm (5.9")

102 mm (4.0")

105 mm (4.1")
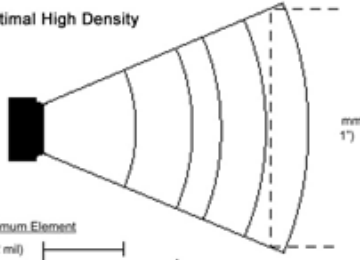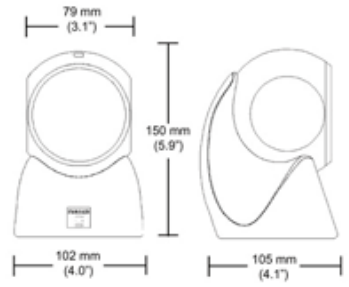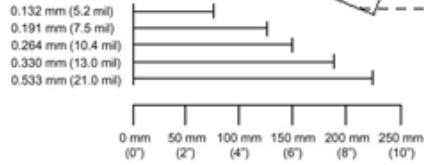
Complies with 21 CFR Chapter 1 subchapter J. Class IIa laser product. Avoid long–term viewing of direct laser light.

LASERKLASSE 1

CE

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