MS650
Bluetooth 1D Ring Scanner

The MS650 ring scanner allows you to ditch corded handheld barcode scanners in favor of a compact, wearable one. About the size of a flash drive and weighing just .5 oz, it secures to your finger using a comfortable Velcro strap, reducing damaging drops and leaving your hands free.

Comfortable & Compact Wearable Scanner
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Superior Readability
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Data Protection & Security
The MS650 protects your information using AES 128-bit encryption blocking unauthorized access and avoids interferences by utilizing 24-bit CRC surveillance while data is being transmitted.

Wireless Connectivity
Simplicity is not only in the design of the MS650 but the functionality. Its ergonomic body is easy to wear and one touch activates the scan feature. The brain of the device is intuitive as well, data is transferred by using a USB port and setting it to auto mode guarantees you won't lose your data.

Main Features:
- Lightweight and unique wearable ring design
- Capable of reading linear barcodes from mobile device screens
- Robust wireless communication with 30-foot operation range
- Rugged and durable design withstands 5-foot drops
- Easily pair to smart phones and tablets (Including iOS/ Android devices)
- Batch data transfer from scanner to computer via USB port
- IP42-rated environmental seal against water and dust
- Full Shift Battery Life: Up to 8 Hours
- Warranty: 1 year

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Optical & Performance

Scanner	1D CCD
Light Source	Red Laser beam with enhanced white LED
Sensor	1D Linear Imager Sensor
Scan Rate	400 Scans/Sec
Resolution	4mil/ 0.1mm
Scan Angle	41°
Print Contrast Ratio	30%
Width of Field	130mm (13Mil Code39)
Memory	2MB
D.O.F	800 lux enviroment
	4 Mil, Code 39 : 50 ~ 70 mm
	5 Mil, Code 39 : 45 ~ 95 mm
	10 Mil, Code 39 :40 ~ 190 mm
	15 Mil, Code 39 : 55 ~ 265 mm
	13 Mil, UPC/EAN: 50 ~ 225 mm

Physical Characteristics

Scanner Dimension	1.1 W x 1.8 L x 1.06 H in
Scanner Weight	.50 oz (including Velcro strap)
Color	Glossy Blue, Matte Black
Material	PC+ABS
Cable	5 ft (Micro USB Cable)
Trigger	Capacitive sensor *2 for left and right buttons
Indicator	LED, Buzzer

Electrical

Operation Voltage	3.7VDC ± 5%
Working Current	< 85mA
Standby Current	< 45mA
Power Down Current	< 200uA
Battery	3.7V, 200mAh, Li-Polymer Battery
Number of Scans (per full charge)	6000 scans (1 scan/ 5 secs, BT connected)

Connectivity

Radio	Bluetooth 4.1 (Class 2)
Range	32 ft/ 10m (line of sight)
Interface/ Profile	BT HID, USB HID, USB VCP, Memory

User Environment

Operating Temperature	32°F ~ 122°F/ 0° ~ 50° C
Storage Temperature	-4°F ~ 149°F/ -20° ~ 65° C
Humidity	0% ~ 95%RH (Non-condensing)
Drop Durability	5 ft
Sealing	IP42
Ambient Light	70,000 Lux (Sunlight)
Symbologies	UPC-A/UPC-E, EAN-8/EAN-13, Industrial 2 of 5, Codabar, Matrix 2 of 5, Code 11, Code 93, Code 32, Code 128, Standard Code 39, Full ASCII Code 39, Interleaved 2 of 5, China Postal Code, MSI Plessy Code, UK Plessy Code, EAN/UCC 128, Telepen Code, IATA Code, GS1Databar

Regulatory

ESD	Functional after 4KV contact, 8KV Air discharge
EMC	CE, FCC , BSMI, NCC, TELEC, VCCI
Safety Approval	WEEE, RoHS 2.0, IEC 60825-1