MS622
Wired 2D Ring Scanner

Single finger wearable design | High scan rate 2D scanner 60FPS | Lightweight .49oz

The MS622 is a supremely convenient single finger wearable scanner that combines powerful 2D scanning performance with a lightweight, hands-free form factor. It streamlines the workflow for a wide range of applications such as retail, pharmacy, transportation and warehousing.

Single Finger Convenience

Featuring flexible and lightweight wearable design, the MS622 ring scanner gives users freedom of movement to perform barcode scanning tasks comfortably while keeping both hands free. It's suitable for left and right hands, making it a convenient tool for any of your employees.

Superior 2D Scanning Performance

The MS622 features a high-speed decoder paired with an aggressive scanning engine to deliver unmatched performance. These powerful components provide up to 60 FPS and high density capture with a 5 mil resolution and a scanning width up to 146mm. The MS622 scans at high speed and operational effectiveness even while moving and can even scan most 1D / 2D barcodes on mobile device screens.

Durable

The MS622 has an IP42 rating for dust and water resistance as well as 4.9-foot drop resistance that provides superior durability and reliability. The MS622 gives workers convenience and safety in a high-performance, compact design that can withstand the stress of the workplace.

Complete Mobility

The MS622 boasts an ergonomic and lightweight design, weighing just under half an ounce to provide users with all-day comfort and superior performance. By wearing the MS622 ring scanner on their finger combined with a WD200 wearable mobile computer, warehouse and retail workers are able to keep both hands on the items they are moving, increasing safety and productivity.

Main Features:

- Flexible hands-free scanning experience: single finger wearable design
- Compact and lightweight: only .5oz (14g)
- Allows right and left hand operation
- Rugged IP42 certified design and 4.9 feet (1.5m) of drop resistance
- 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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MS622
Specifications

Optical & Performance

Sensor	CMOS Sensor (640 x 480 pixels)
Aiming Element	White LED Red LED (625nm)
Ambient Light	100,000 Lux (Sunlight)
Scan Rate	60 Frames/Sec
Skew Angle	±60°
Pitch Angle Sensor	±60°
Roll Angle	360°
Optical Resolution	≥3mil
Printing Contrast Scale	40%
Depth of Field	(Environment : 800 lux)
	5 Mil Code 39 : 45 ~ 145 mm
	13 Mil UPC/EAN: 65 ~ 345 mm
	6.67 Mil PDF417 : 55 ~ 120 mm
	15 Mil QR Code : 35 ~ 165 mm
	10 Mil Data Matrix : 50 ~ 115 mm

Communication

Host Interface supported	USB VCP
	USB HID

Physical Characteristics

Scanner Dimension	W1.08 in x L1.82 in x H1.05 in (W27.6 x L46.2 x H26.8 mm)
Scanner Weight	.5oz/14g (without cable)
Indicator	LED, Buzzer
Trigger	100,000

Symbologies

1D Barcodes	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 Plessey Code, UK Plessey Code, EAN/UCC 128, Telepen Code, IATA Code, GS1 Databar
2D Barcodes	QR Code, Micro QR Code, PDF417, Data Matrix, Aztec

Environmental

Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C)
Storage Temperature	-40°F ~ 158°F (-40°C ~ 70°C)
ESD Protection	Functional after 4KV contact, 8KV Air discharge
Humidity	0% ~ 95%RH (Non-condensing)
Mechanical Shock	4.9 feet (1.5m) onto concrete (scanner only)
Sealing	IP42

The MS622 is designed to be used with the Unitech WD200 Wearable Mobile Computer.

Connectivity

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

Electrical

Operation Voltage	5 VDC ± 5%
Current Consumption	Working current: < 135mA
	Standby current: < 15mA

Regulatory

FCC, CE

Accessories

USB Micro to USB Type C CABLE for MS622/Coiled/ Black/3.5in (90mm)

What comes in the box?

MS622 Scanner with Velcro Strap
Micro USB to USB Type C Cable 3.5in (90mm)
Spare Velcro Strap
Quick Start Guide
Regulatory Compliance Statements
Hang Tag

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