MS652+
Wearable 2D Ring Scanner

MS652-AUDB00-SG
(2 fingers design)

MS652-AUDB00-1G
(1 finger design)

After the success of MS652 wearable 2D ring scanner in the global market, unitech electronics recently announced upgrade to MS652+ wearable 2D ring scanner. Delivering great customer experience to our users, the MS652+ barcode scanner has been upgraded the Bluetooth module that it supports both Bluetooth® Classic V2.1 Class1 and Bluetooth® Low Energy 4.2. It enables improved data transmission rates and efficient power consumption (Bluetooth® Low Energy 4.2), as well as the Bluetooth® classic V2.1 SPP protocol allows the duplex communication for devices. Also the SPP protocol enhanced the pairing experience for devices. The MS652+, featuring wearable design that gives users freedom of movement to perform barcode scanning tasks comfortably while keeping both hands free. The MS652+ is designed to streamline the workflow for a wide range of applications such as retail, logistics, field service and hospitality.

Ergonomic design for mobile operators

The MS652+ wearable 2D ring scanner enables its operator to move products, packages, materials and proceed with their barcode reading tasks more efficiently, safely and comfortably. Whether you prefer left or right-handed operation, users can instantly switch between right and left hand operation with the special one push rotate design. It improves productivity in your operations with the wearable technology.

Ultimate 2D wireless ring scanner

Featuring a superior scan engine, MS652+ is available to scan most 1D, 2D and PDF417 barcodes printed on paper labels or displayed on the screen of a mobile phone. The Bluetooth® Low Energy 4.2 / Classic V2.1 Class1 and NFC technology delivers the most efficient way to pair with smart phone and tablets (including iOS or android system) with just a touch. Moreover, the wireless technology keeps the scanner connected up to 100 m (300 ft) from the computer, increasing productivity by allowing workers to move to the task. The MS652+ can be utilized with an auto mode that ensures no data is lost while it is out of range of the wireless signal, also upload the data to the back-end system automatically when it gets back in range, allowing users to complete their tasks without interruption.

Small but Durable

The MS652+ is small but extremely rugged which supports IP42 protection against water and dust as long as 1.5 meters drop-resistant housing. In addition, the MS652+ is built in changeable and rechargeable battery pack that allows users to improve your work productivity at work. With an ergonomic and compact design, the MS652+ 2D ring scanner delivers users powerful way to improve efficiency to the next level.

Features

- Lightweight and unique wearable ring design
- One push rotate design allows right and left hand operation switch easily.
- Available to read 1D, 2D and PDF417 barcodes
- Flexibility wireless design with 100M operation range
- Rugged and durable design with IP42 and 1.5m drops
- Bluetooth LE® V4.2 / Classic V2.1 Class1 and NFC technology : Easily pair to smart phones and tablets (iOS/ Android devices)
- Changeable and rechargeable battery pack
- Full Shift Battery Life: Up to 13 Hours
- Mounted on two fingers to enhance the operation stability

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MS652+
Specifications

System

Connection	Connect to host with Windows, Android, or iOS
Memory	7.5Mbytes, store up to 590,000 of EAN13 codes
Keys	1 Scan Button

Optical & Performance

Scan Engine	SE4107
Sensor	CMOS sensor with 1280 x 960 pixels, rolling shutter
Light Source	610nm, Green LED
Ambient Light	Max 107, 639 lux (direct sunlight)
Skew Angle	60 degrees
Pitch Angle Sensor	60 degrees
Printing Contrast Scale	minimum 20%
Scan Speed	30 frame /sec

Depth of Field (DOF PCS=80%) / Barcode type	Near	Far
5 mil Code 39	2.4 in / 6.1 cm	9.5 in / 24.1 cm
5 mil Code 128	2.8 in / 7.1 cm	9.0 in / 22.9 cm
6.67 mil PDF417	2.4 in / 6.1 cm	8.0 in / 20.3 cm
10 mil Data Matrix	2.9 in / 7.4 cm	8.5 in / 21.6 cm
100% UPC	1.8 in / 4.6 cm	19.5 in / 49.5 cm
15 mil QR	1.2 in / 3.0 cm	11.5 in / 29.2 cm
20 mil QR Code	1.5 in / 3.8 cm	11.5 in / 29.2 cm

Communication

Radio	Bluetooth LE® V4.2
	Bluetooth® 2.1+EDR, Class 1
Range	300ft/100M (Open space)
Host Interface supported	Micro USB
Protocol	BLE HID, BT SPP & HID profiles

Mechanical

Scanner Dimension	50 x 71 x 21 mm
Scanner Weight	95g
Trigger Switch Life	1 million times

Regulatory Approvals

CE, FCC, BSMI, VCCI, TELEC, NCC

Symbologies

1D	UPC/EAN/JAN, Code 128, Code 39, Code 93, Code 11, Interleaved 2 of 5 (ITF), Discrete 2 of 5 (DTF), Codabar (NW - 7), MSI, Chinese 2 of 5, Matrix 2 of 5, Inverse 1D, GS1 DataBar, Composite Codes
2D	PDF417, MicroPDF417, Code 128, Data Matrix, GS1 Data Matrix, Data Matrix Inverse, Decode Data Matrix, Maxicode 294, QR Code 293, GS1 QR Code, Micro QR Code, Linked QR Code, Aztec, Aztec Inverse, Han Xin Code, Han Xin Inverse, Grid Matrix, Grid Matrix Inverse, Grid Matrix Mirror, Macro PDF
Postal Codes	Australia Post, Australia Post Format, UK Postal, Japan Postal, Netherlands KIX Post, GS1 Composite, Korea Post, US Postnet, US Planet, Transmit US Postal Check Digit Transmit UK Postal Check Digit, USPS 4CB/One Code/Intelligent Mail, UPU FICS Postal, Mailmark

Electrical

Operation Voltage	DC 5V +/- 10%
Current Consumption	Operation mode: 160mA, Standby mode: 23mA Power off mode 1uA
RTC backup time	Support main battery replacement to keep RTC data within 5 mins.
Battery Type	Rechargeable Lithium-ion
Battery Capacity	800mAH / 3.7V
Charging Time	Fully charged in 4 hours
Operating Time	9 hours at 1 scan / 5 secs with good reading beep sound.
Charging Method	USB Cable or Battery Charging cradle

Environmental

ESD Protection	Functional after 8K Contact and 12K Air
Mechanical Shock	1.5M onto concrete (scanner only)
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Relative Humidity	95% non-condensing
IP Rating	IP42

Accessories

- 800mAh Battery
- Wrist Lanyard
- Micro USB cable
- 4-Slot Battery Charger (optional)
- Trigger module
- 5 slots charging cradle
- Single slot cradle with USB cable
- Power Adaptor with universal plugs
- Single slot cradle with universal power adapter
- Finger Pad
- Changeable Finger Strap
- WD200 3.1 inch Wearable Computer

What comes in the box

- MS652Plus Wearable 2D Ring Scanner
- Battery
- Micro USB cable
- Finger rubber pad

Single slot cradle

4-Slot battery charger (optional)

5-Slot charging cradle

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05/22 Rev.L

PN#MS652-AUDB00-SG & PN#MS652-AUDB00-1G