MS652
Wearable 2D Ring Scanner

unitech electronics today introduced the new 2D ring scanner to its industry-leading wearable portfolio: MS652, features 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 BT 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 BLE 4.2 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 10 m (30 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
- BLE4.2 wireless design with 10M operation range
- Rugged and durable design with IP42 and 1.5m drops
- BT to NFC pairing : Easily pair to smart phones and tablets (Including 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.
- Larger flash memory storage with 7.5 MB built-in USB drive (store up to store up to 590,000 of EAN13 codes)
- Easier scanner configuration, data access and firmware upgrade via built-in USB drive

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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	Zebra SE2707
Sensor	CMOS sensor with 640 x 400 pixel
Light Source	1 Hyper Red 660nm LED
Ambient Light	Max 107, 639 lux (direct sunlight)
Skew Angle	60 degrees
Pitch Angle Sensor	60 degrees
Printing Contrast Scale	minimum 20%
Depth of Field (DOF PCS=80%)	SYMBOLOGY / X-DIM TYPICAL RANGE* Near Far 5 mil Code 39 2.0 in / 5.1 cm 6.4 in / 16.2 cm 5 mil Code 128 2.5 in / 6.3 cm 5.0 in / 12.7 cm 6.6 mil PDF417 2.5 in / 6.3 cm 6.3 in / 16.0 cm 10 mil PDF417 1.8 in / 4.5 cm* 9.0 in / 22.8 cm 13 mil 100% UPC 2.0 in / 5.0 cm* 12.5 in / 31.7 cm 20 mil Code 39 2.0 in / 5.0 cm* 19.5 in / 49.5 cm 20 mil Data Matrix 1.5 in / 3.8 cm 13.5 in / 34.3 cm 20 mil QR Code 1.5 in / 3.8 cm 11.0 in / 27.9 cm

Communication

Radio	Frequency Bluetooth Low Energy 4.2
Range	30ft/10M (line of sight)
Host Interface supported	USB
Protocol	BT HID

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

Functionality

Symbologies	1D : All major symbologies and PDF417
	2D : QR Code, Data Matrix, Aztec Code, PDF417, Macro PDF417, Micro PDF417, MaxiCode, Coda block A, Codablock F, GS1Composite, Han Xin Code, Australian Post, British Post, Canadian Pos, InfoMail, Intelligent Mail Bar Code, Japanese Post, KIX (Netherlands) Post, GS1 Composite, Korea Post, Planet Code, Postal, Postnet
Operation Mode	Trigger mode, Presentation mode, Auto mode, Batch mode
Data Formatting	Prefix, Suffix, Code ID, Reformatting Date

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	14 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
Battery
Hand strap
Micro USB cable
4-Slot Battery Charger (optional)

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