MS852B+ ESD

Bluetooth® ESD-safe 2D Imager Scanner

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ESD Protection

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Move without Restrictions

Featuring 2D scanning technology, the MS852B+ESD has the ability to capture most 1D / 2D barcodes n mobile screens, even damaged or poorly printed barcodes and special barcode symbologies such as OCR on passport, Dot codes on tires or cigarette package, and Digimarc barcode on special retail packages. Moreover, the MS852B+ESD supports Bluetooth® dual-mode technology (Bluetooth LE® V4.2 & Bluetooth® 2.1+EDR, Class 1) to give you the freedom and bring your business the flexibility. It is compatible with any smartphone, tablet, or computer–the MS852B+ESD pairs easily to any mobile device or PC. Besides, it allows users to transmit data to the host from up to 100 meters from the base. MS852B+ ESD also can automatically populate electronic forms in a single scan from US driver's licenses or ID card. With its advanced barcode technology and durable design, the MS852B+ ESD handheld scanner is a highly reliable tool to increase productivity and efficiency.

Intuitive and User-Friendly

With excellent motion tolerance design, the MS852B+ ESD increased scan speed and operational effectiveness even while moving. Equipped with a louder beeper and brighter LED indicators, the MS852B+ ESD allows users to recognize the feedbacks easily even in dark environment.

Ultra-Durability

While sustaining a 2.1 meters drop to concrete, MS852B+ ESD incorporated with IP42 rugged design for protection against dust and moisture. Moreover, the built-in long lifecycle trigger of 10 million times guarantees a continuous productivity for best reliability. This scanner can be used in the most practical way depending on the scanning task in various solutions in retail, logistics, manufacturing, hospitality, and government.

Features

- Withstands ESD up to $10^5 \sim 10^9$ ohms per square
- Megapixel barcode sensor that enhances the maximum compatibility
- Support most 1D / 2D barcode on mobile screens, even damaged or poorly printed barcodes
- Support OCR, Dot codes, and Digimarc barcodes
- Support Bluetooth® dual-mode technology (Bluetooth LE® V4.2 & Bluetooth® 2.1+EDR, Class 1)
- Wireless transmission range up to 100m in the line of open sight.
- Long battery life up to 25 hours per a fully charged battery
- Durable design: IP42 and 2.1m drop spec
- Auto Bluetooth pairing / auto switch between trigger & presentation mode with cradle

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MS852B+ ESD
Specifications

System

Memory	7MB for batch mode/ 20KB for auto mode
Key	Trigger Key

Optical & Performance

Sensor	1280 X 800 global shutter
Illumination	Red laser or 528 nm visible green LED
Ambient Light	White or Red LED
	100,000 Lux (Sunlight)
Skew Angle	±60°
Pitch Angle Sensor	±60°
Roll Angle	0 - 360°
Optical Resolution	1D 3mil/ 0.075mm
Printing Contrast Scale	Minimum 20%
Depth of Field	Symbology | Density | Near | Far
(DOF PCS=80%)	13 mil UPC 3.8 cm 40.5 cm
	3 mil C39 6.6 cm 18.3 cm
	5 mil C39 5.3 cm 26.5 cm
	6,7 mil DM 7.2 cm 18.0 cm
	10 mil DM 5.9 cm 24.8 cm
	5 mil PDF 7.4 cm 18.6 cm
	6,7 mil PDF 5.9 cm 23.8 cm
	6,7 mil QR 7.2 cm 16.3 cm
	15 mil QR 2.7 cm 30.8 cm

Communication

Radio	Bluetooth LE® V4.2
	Bluetooth® 2.1+EDR, Class 2 Dual mode
Wireless Coverage	100m (line of sight)
Interface/ Profile	Serial Port and HID profiles
Host Interface supported	USB

Functionality

Operation Mode	Trigger Mode, Presentation Mode, Buffer Mode

Regulatory Approvals

CE, FCC, BSMI, VCCI, NCC, TELEC, BQB

Symbologies

1D	Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended Coupon Code, Coupon GS1 Code 32(PARAF), EAN-UCC Emulation, GS1 Data Bar, TLC39
2D	2D Stacked: Codablock A, Codablock F, PDF417, MicroPDF417
	2D Matrix: Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible (Han Xin), Grid Matrix, Dot Code
	Postal:Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet
OCR Barcodes	Support OCR barcodes
DPM Barcodes	Support DPM barcodes
Data Formatting	Prefix, Suffix, Code ID, Reformatting Date

Electrical

Indicator	LED & Beeper & Vibrator
Battery Type	Rechargeable and replaceable battery pack.
Battery Capacity	2850mAh
Battery Charging time	<6.5 hours
Operating Time	>25 hours
	Up to 50,000 scans at 1 scan/5 second"

Environmental

ESD Protection	Functional after 8K Contact and 15K Air
Mechanical Shock	2.1 M onto concrete (scanner only)
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	95% non-condensing
IP Rating	IP42

Accessories

USB cable
1-slot charging cradle
Battery pack

Package Contents

MS852B+ ESD Scanner with battery
Cradle
Interface cable