

MS852B+ ESD

Bluetooth® ESD-safe 2D Imager Scanner



Increase level of care and work productivity with a device that is cleanroom safe. The MS852B+ ESD (electrostatic discharger) is a Bluetooth enabled 2D imager scanner that offers superior scanning while adhering to cleanroom and static-safe environment requirements for a device that measures up to the strictest protocol.

ESD Protection

For cleanrooms where the most controlled environments are required, a data collection device that protects against microbes, airborne dust, particles, and other infectants, a reliable scanner is critical. The MS852B+ ESD 2D barcode scanner offers optimal scanning performance with ESD protection which includes static-resistant properties. It meets the stringent requirements needed to qualify as a cleanroom and static-safe manufacturing device. The device is chlorine-free and able to withstand electrostatic discharges of up to 105-109 ohms per square.

Designed externally to be ESD safe and provide continued, long-lasting protection from electrostatic charges, the MS852B+ESD's unit is fully protected including the cable. An mixed anti-static agent is applied internally for added protection to its out plastic housing; repeated wipedowns and static build up is absorbed through its unique ESD construction.

Move without Restrictions

The MS852+ ESD features high performance scan capture technology which reads 1D and 2D barcodes along with mobile codes and damaged or hard-to-read barcodes on paper. As well, it reads OCR codes on passports and Dot codes. With installed software, the device has the capability to automatically populate US driver's license or ID card information with a single scan

The MS852+ ESD offers Bluetooth dual-mode technology (Bluetooth LE® V4.2 & Bluetooth® 2.1+EDR, Class 1) for moving freely within your work environment up to 328 feet from the device base. Critical data information is stored within the device for batch upload and wireless reads are executed simply and efficiently.

Intuitive and User-Friendly

An excellent motion tolerance means the MS852B+ ESD features increased scan speed and operational efficacy even while moving. Equipped with a loud, clear audio beep and bright LED indicators, the MS852B+ ESD allows users to recognize feedback easily even in dark or noisy environments.

Ultra-Durable

A rugged 6.8 drop rating sustains drops to concrete and an IP42 environmental seal traps out dust, dirt, and moisture for a truly durable device. Additionally, the built-in long lifecycle trigger of 10 million times guarantees continuous productivity for optimal performance. This device can be utilized in many applications and solutions and excels in retail, logistics, manufacturing, hospitality, and government.

Main Features:

- Withstands ESD up to 10^5 ~ 10^9 ohms per square
- Megapixel barcode sensor enhances performance
- Supports most 1D / 2D barcode on mobile screens, even damaged or poorly printed barcodes
- Reads OCR, Dot codes, and Digimarc barcodes
- Bluetooth® dual-mode technology (Bluetooth LE® V4.2 & Bluetooth® 2.1+EDR, Class 1)
- Wireless transmission range up to 328 feet (100m) in the line of open sight
- Long battery life up to 25 hours per a fully charged battery
- Durable design: IP42 and 6.8-foot drop spec
- Auto Bluetooth pairing / auto switch between trigger & presentation mode with cradle

Optical & Performance

Sensor	1280 X 800 global shutter
Illumination	Red laser
Ambient Light	White LED (exempt risk group) 100,000 Lux (Sunlight)
Skew Angle	±60°
Pitch Angle	±60°
Roll Angle	0 - 360°
Optical Resolution	1D 3mil/ 0.075mm
Printing Contrast Scale	Minimum 20%
Depth of Field	Symbology Density Near Far Symbology Density Near Far 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
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 Stacked: Codablock A, Codablock F 2D 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 Supports OCR barcodes Supports DPM barcodes
OCR Barcodes	Prex, Sux, Code ID, Reformatting Date
Data Formatting	

Communication

Radio	Bluetooth LE® V4.2 Bluetooth® 2.1+EDR Class 2 Dual mode
Wireless Coverage	328 feet (100 m) (line of sight)
Interface/ Prole	Serial Port and HID proles
Host Interface supported	USB

Mechanical

Dimension	3.4 in x 2.8 in x 6.9 in (87.8 mm x 71.6 mm x 177.7 mm)
Weight	6.5 oz (184 g) without cable



Electrical

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"
Indicator	LED & Beeper & Vibrator

Environmental

ESD Protection	Functional after 8K Contact and 15K Air
Mechanical Shock	6.8 feet (2.1 m) onto concrete (scanner only)
IP Rating	IP42
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

Regulatory

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

Accessories

- USB cable
- 1-slot charging cradle
- Battery pack

Package Contents

- MS852B+ ESD Scanner with battery
- Cradle
- Interface cable



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