MS851 ESD

Rugged Handheld Laser ESD Scanner

The MS851 ESD (Electrostatic discharger) laser scanner is a high-performance device but additional designed to satisfy the stringent requirements of cleanrooms and static-safe manufacturing environments.

ESD Protection

unitech's MS851 ESD-safe scanner is made by the internal mixed way with antistatic agents to protect the MS851 series to be ESD safe to be used at ESD protected area including its cable. The body of the product and its cable can withstand ESD up to $10^5 \sim 10^9$ ohms per square and no containing Chlorine material. The Internal mixed way can provide a longer time of ESD protection than external addition way due to external additional anti-static in the latter part of the packaging or processing process was wiped away. The internal mixed antistatic agent can continue to add antistatic agent to the plastic surface, to make up the surface due to wipe and the amount of antistatic agent consumed. It is a reliable tool to streamline your workflow in manufacturing environments.

Intuitive and aggressive handheld scanning performance

Built-in a powerful scan engine, the MS851 ESD provides impressive speedy and accurate scanning performance in large working range from near to 5 meters. unitech MS851 ESD handheld laser scanner is the widest working range in this class which is ideal for a broad range of market applications such as document processing, retail and inventory applications. Featuring advanced laser scanning technology, the MS851 has the automatic scanning ability with a scan rate of up to 104 scans per second. It also has the ability to capture long range 1D barcodes, even damaged or poorly printed barcodes. This device enhances the workflow efficiency in an affordable price.

Compact but durable

Due to different operational modes: trigger mode and presentation mode, The MS851 ESD can be used in the most practical way depending on the scanning task. This scanner can be configured via USB, and RS232 and offers replaceable cables ensuring ease of integration. Equipped with a louder beeper and brighter LED indicators, the MS851 ESD allows users to recognize the feedbacks easily even in dark environment. While sustaining a 2.1 meter drop to concrete, MS851 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.

Features

- Withstands ESD up to $10^5 \sim 10^9$ ohms per square
- Offers longer working range, a wider scan field, high-speed and sensitive scanning performance.
- Support most standard 1D barcodes
- Long lifecycle trigger design: Up to 10,000,000 times.
- Ultra-rugged design : IP42 and 2.1m drop spec
- Louder beeper and brighter LED indicators for easily recognizing feedbacks
- Lightweight design: 147g without cable.





MS851 ESD Specifications



Laser Engine

4mil (0.1mm)

±40° from normal

±65° from normal

(DOF PCS=80%)

minimum 20%

650 nm visible laser diode

104 (± 12) scans/sec (bidirectional)

Symbology | Density | Near | Far

Code 128, 5 mils | 3.55 cm | 17.78 cm

Code 39, 5 mils | 3.05 cm | 26.67 cm

Code 39, 7.5 mils | 3.04 cm | 41.91 cm

Code 128, 10 mils | 3.05 cm | 40.46cm

Code 39, 100 mils | 60.96 cm | 457.20 cm

Prefix, Suffix, Code ID, Reformatting Date

Code 39, Full ASCII Code39, Interleave 2 of 5, UPC A/E/E1, MSI, Codabar, Code 11, EAN8/13, Code 93, Code 128, EAN128, Code32, GS1 databar Code,

Bookland EAN, Discreate 2 of 5, Chinese 2 of 5, ISBT

Trigger mode, Pulse mode, Flash mode, Continuous Mode

128, UCC Coupon Extended Code, Bookland 128

UPC, 13 mils | 4.57 cm | 63.50 cm Code 128, 15 mils | 5.08 cm | 66.04 cm Code 39, 20 mils | 3.56 cm | 116.84 cm Code 39, 55 mils | 8.64 cm | 177.80 cm

Optical & Performance

Receiving Device Light Source Optical Resolution Scan Rate Skew Angle Pitch Angle Printing Contrast Scale Depth of Field

Symbologies

Operation Mode Data Formatting

Communication

Host Interface supported

Mechanical

Dimension Weight Trigger Switch Life 87.8 L x 71.6 W x 177.7 H (mm) 147g without cable 10 million times

USB





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Electrical

Operation Voltage Current Consumption

User Indicators

- Environmental

ESD Protection Mechanical Shock IP Rate Operating Temperature Storage Temperature Relative Humidity

Regulatory

CE, FCC, BSMI, VCCI

Accessories

Standard Hands Free Stand (Optional)

Package Contents MS851 ESD Scanner

Interface cable

4 VDC to 5.5 VDC Operation mode: <110mA Standby mode: <20mA Direct decode indicator, good decode LEDs, beeper (adjustable tone/volume)

Functional after 8K Contact and 15K Air 2.1M onto concrete (scanner only) IP42 -10°C to 50°C (14°F to 122°F) -40°C to +70°C (-40°F to +158°F) 95% non-condensing

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