



# MS852+ ESD

## High Performance 2D Imager ESD Scanner

The MS852+ ESD (Electrostatic discharge) imager is a high-performance device but additional designed to satisfy the stringent requirements of cleanrooms and static-safe manufacturing environments.

### ESD Protection

unitech's MS852+ ESD-safe scanner is made by internal mixed way with antistatic agent to protect MS852+ series to be ESD safe to be used at ESD protected area including its cable. With the Internal mixed way, 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. An 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.

### Increase Productivity with Superior Industrial Barcode Scanner

Specially built for challenging work environment, the MS852+ ESD is built in Megapixel barcode sensor that enhances the maximum compatibility to capture most 1D / 2D barcodes on 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. With its advanced barcode technology and durable design, the MS852+ ESD handheld scanner is a highly reliable tool to increase productivity and efficiency.

### Ultra-Durability

With excellent motion tolerance design, the MS852+ ESD increased scan speed and operational effectiveness even while moving. Equipped with a louder beeper and brighter LED indicators, the MS852+ ESD allows users to recognize the feedbacks easily even in dark environment. While sustaining a 2.1 meter drop to concrete, MS852+ 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
- With excellent motion tolerance design suitable to read bar code while moving
- 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



# MS852+ ESD

## Specifications

### Optical & Performance

|                              |   |
|------------------------------|---|
| Sensor                       | 1280 X 800 global shutter                         |
| Aiming Element               | Red laser or 528 nm visible green LED             |
| Illumination                 | White or Red LED                                  |
| Imager Field of View         | 100,000 Lux (Sunlight)                            |
| Skew Angle                   | ±60°  |
| Pitch Angle Sensor           | ±60°  |
| Roll Angle                   | 360°  |
| Optical Resolution           | 1D 3mil/ 0.075mm                                  |
| Printing Contrast Scale      | 20% minimum print contrast ratio                  |
| Depth of Field (DOF PCS=80%) | SYMBOLLOGY / X-DIM TYPICAL RANGE* Near Far        |
|                              | 13 mil UPC 1.34 in / 3.4 cm 22.5 in / 57.3 cm     |
|                              | 5 mil Code 39 2.76 in / 7 cm 11.85 in / 30.1 cm   |
|                              | 10 mil Code 39 1.14 in / 2.9 cm 20.3 in / 51.7 cm |
|                              | 20 mil Code 39 1.38 in / 3.5 cm 31.5 in / 80 cm   |
|                              | 15 mil Code 128 1.34 in / 3.4 cm 25.6 in / 65 cm  |
|                              | 10 mil DM 2.84 in / 7.2 cm 11.7 in / 29.7 cm      |
|                              | 6,7 mil PDF417 3.3 in / 8.4 cm 9.6 in / 24.4 cm   |
|                              | 15 mil QR Code 1.3 in / 3.3 cm 15.35 in / 39 cm   |

### Communication

|                          |     |
|--------------------------|-----|
| Host Interface supported | USB |
|--------------------------|-----|

### Mechanical

|                     |                                |
|---------------------|--------------------------------|
| Dimension           | 87.8 L x 71.6 W x 177.7 H (mm) |
| Weight              | 165g                           |
| Trigger Switch Life | 10 million times               |

### Regulatory Approvals

CE, FCC, BSMI, VCCI

### Accessories

Standard Hands Free Stand (Optional)

### 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  |
| Postal Codes | 2D Matrix: Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible (Han Xin), Grid Matrix, Dot Code<br>Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet  |

### Electrical

|                   |                                   |
|-------------------|-----------------------------------|
| Power Requirement | 4 VDC to 5.5 VDC                  |
| Current           | Operating: 252mA<br>Standby: 77mA |

### Environmental

|                       |   |
|-----------------------|---|
| ESD Protection        | Functional after 8K Contact and 15K Air |
| Mechanical Shock      | 2.1M 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                                    |

### Package Contents

Scanner + Cable



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