

## **ESD Protection**

Unitech MS840ESD Laser Scanner is a high performance device designed to satisfy the stringent requirements of clean room, static safe manufacturing environments. Constructed with conductive materials, MS840ESD is a versatile scanner to eliminate the build up of dangerous static charge on the scanner, as well as to drain the charge on another object with which it comes in contact. It is a reliable tool to streamline your work flow in manufacturing environments.

### Ergonomic, Durable Design

The rugged MS840ESD not only offers superior extended range performance and versatility for scan-intensive industrial applications, but also it can withstand multiple 1.8-meter drops to concrete. As one of the strongest scanners in its class, the MS840ESD has an IP42 rating, safeguarding it from moisture and dust, and is capable of operating in diverse applications including retail, industrial and commercial services.

#### **Features**

- ESD Coated Housing
- High-performance laser engineered decoder
- Supports all 1D barcodes; including GS1 Data barcode
- Ergonomic design for maximum user comfort

# Easy to Use

The MS840ESD supports a wide range of connectivity options including USB, RS232 and keyboard wedge. With auto-adapting capabilities, MS840ESD is easy to install and operate with simple connecting the scanner to the host device. Moreover, User-friendly cable replacement capability minimizes downtime and reduces the total cost of ownership.

- Multiple scanning modes
- Louder beeper for noisy environment operation
- 1.8-Meter / 6-Foot drop test
- IP42-rated







# **Optical & Performance**

Receiving Device Laser engine

Light Source Visible Laser Diode 650 nm

Max. Resolution 4mil (0.1mm) Scan Rate 104 scans/second

47°± 3° (typical), 35°± 3° (narrow) Scan Angle

Printing Contrast Scale 20% Minimum

Reading Distance (DOF PCS=80%)

| Label / DOF     | near   | far     |
|-----------------|--------|---------|
| Code 39, 4mil   | 2.5cm  | 13.9cm  |
| Code 39, 5mil   | 3.18cm | 20.32cm |
| Code 39, 7.5mil | 3.81cm | 33.02cm |
| Code 39, 10mil  | 3.81cm | 45.72cm |
| Code 39, 13mil  | 3.81cm | 60.96cm |
| Code 39, 15mil  | 3.81cm | 71.12cm |
| Code 39, 20mil  | 4.45   | 83.82cm |
| Code 39, 40mil  | *      | 91.44cm |
| Code 39, 55mil  | *      | 114.3cm |

<sup>\* =</sup>dependent on width of bar code

# **Functionality**

Symbologies Code 39, Full ASCII Code39, Interleave 2 of 5,

Standard 2 of 5, UPC A/E, Delta Code, Label Code, MSI/ Plessy, Codabar, Code 11, EAN8/13, Code 93, Code 128, EAN128, Code32, Toshiba Code, GS1

databar Code

Operation Mode Trigger Mode, Flash Mode, Multiscan Mode, One

Press One Scan Mode

Data Formatting Prefix, Suffix, Code ID, Reformatting Date Function Keys PC, Macintosh and IBM Terminal Keyboard

#### **Electrical**

Operation Voltage DC 3V to 5V

**Current Consumption** Operation mode: <91mA, Standby mode: <26mA

# **MS840ESD** Handheld Laser Scanner

#### Mechanical

176\*74\*89mm Dimension Weigh 157g(without cable) 10 million time Switch life

#### **Environmental**

**ESD Protection** Functional after 8K Contact and 12K Air Mechanical Shock 1.8m onto concrete (scanner only)

IP rate IP42 Operating Temperature 0°C to 50°C Storage Temperature -30°C to 70°C

Relative Humidity 5% to 90% non-condensing

ESD < +/- 30V

Resistivity :  $10^5 \le X < 10^{11}$  ohm/square

# Communication

Keyboard Wedge, RS232, USB 2.0

# **Regulation Approvals**

CE, BSMI, VCCI, C-Tick

# **Accessories**

Hand-free stand Interface cable





### Headquaters

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