



MS84x ESD series

Reliable Scanning at its best

ESD Protection

Like the Unitech MS840/MS842 line, the MS84x ESD (Electrostatic discharger) laser or imager is a high performance device but additional designed to satisfy the stringent requirements of cleanrooms and static-safe manufacturing environments.

Constructed with conductive materials the MS84x ESD 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 workflow in manufacturing environments.

Ergonomic, Durable Design

The rugged MS84x ESD 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 MS84x ESD has an IP42 rating, safeguarding it from moisture and dust, and is capable of operating in diverse applications including retail, industrial and commercial services.

Easy to Use

The MS84x ESD supports USB or wireless connectivity. With auto-adapting capabilities, MS84x ESD 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.

MS84x ESD is available in 1D laser or 2D imager (wired or wireless).

Features

- ESD Coated Housing
- High-performance laser engineered decoder
- Supports 1D or 2D barcodes; including GS1 Data barcode
- Ergonomic design for maximum user comfort
- Multiple scanning modes
- Louder beeper for noisy environment operation
- 1.8-Meter / 6-Foot drop test
- IP42-rated



v1 MS84x ESD

Specifications

Operational & Performance

Receiving Device	Laser engine or CMOS imager sensor
Light Source	1D: Visible Laser Diode 650 nm 2D: Illumination: LED (626 nm) Aiming: Laser (655nm)
Max. Resolution	4mil (0.1mm)
Scan Rate	104 scans/second
Scan Angle	47°± 3° (typical), 35°± 3° (narrow)
Printing Contrast Scale	20% Minimum
Buzzer volume:	90db

Reading distance (DOF)

Depth of Field (DOF PCS=80%)	Symbology Density Near Far
	Code 39, 4 mils 2.5 cm 13.9 cm
	Code 39, 5 mils 3.18 cm 20.32 cm
	Code 39, 7.5 mils 3.81 cm 33.02 cm
	Code 39, 10 mils 3.81 cm 45.72 cm
	Code 39, 13 mils 3.81 cm 60.96 cm
	Code 39, 15 mils 3.81 cm 71.12 cm
	Code 39, 20 mils 4.45 cm 83.82 cm
	Code 39, 40 mils x 91.44 cm
	Code 39, 55 mils x 114.3 cm

* = depends on width of barcode

Symbologies

1D	Code 39, Full ASCII Code39, Interleave 2 of 5, Standard 2 of 5, UPC A/E, Delta Code, Label Code, MSI/ Plessey, Codabar, Code 11, EAN8/13, Code 93, Code 128, EAN128, Code32, Toshiba Code, GS1 databar Code.
2D	2D: PDF417, MicroPDF417, Datamatrix, QR Code, Micro QR Code, Aztec, RSS, Composite, TLC -39, MaxiCode. Postal: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX).

Function Keys

PC, Macintosh and IBM Terminal Keyboard

Power Source

Operation Voltage	DC 3V to 5V
Current Consumption	Operation mode: <91mA, Standby mode: < 26mA

Data Formatting

Prefix, Suffix, Code ID, Reformatting Date

Enclosure

Scanner dimension	176mm x 74mm x 89mm
Scanner weight	157g (without cable)
Switch life	10 million times

Environmental

ESD Protection	Functional after 8K Contact and 12K Air
Mechanical Shock	1.8m onto concrete
IP Rate	IP42
Operating Temperature	0°C to 50°C
Storage Temperature	-30°C to 70°C
Relative Humidity	5% to 90% non-condensing

Safety

ESD < +/- 30V
Resistivity : $10^5 \leq X < 10^{11}$ ohm/square

Operation modes

Trigger Mode, Flash Mode, Multiscan Mode, One Press One Scan Mode

Connectivity

USB cable or Wireless

Accessories

Hand-free stand
Interface cable

Regulatory approvals

CE, FCC, BSMI, VCCI

Warranty

1 year

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