



MS851

Rugged Handheld Laser Scanner

Make tough workdays easier with the MS851 barcode scanner. An aggressive scan engine lies within while a sturdy outer shell protects from dirt, dust, water, and drops to hard surfaces. Ideal for scan-intensive applications such as warehousing, retail, and inventory management.

Intuitive Handheld Scanning Performance

Utilizing advanced laser scanning technology, the MS851 features automatic scanning capability and scans at an impressive 104 reads per second. With the ability to capture all 1D barcodes, even damaged or poorly printed ones, at long range, the MS851 is a powerful tool in your data collection belt.

Ease & Versatility

Customize the MS851 to suit your scanning needs, switch from trigger and presentation mode for multi-functional use. Replaceable cables ensure a long life for the device while setting up and configuring the device is easy via USB. Designed to generate extra loud beeps and bright LED signals, the MS851 is equipped for the most challenging environments.

Reliability & Durability

The MS851 sustains damage from falls to hard concrete of up to 6.8 feet and an IP42 environmental seal protects the unit from dust and moisture. An advanced long lifecycle trigger of 10 million times provides consistent reliability and continuous usage.

Main Features:

- Offers high-speed and sensitive scanning performance at long and wide ranges
- Supports most standard 1D barcodes
- Long lifecycle trigger design: Up to 10,000,000 times
- Ultra-rugged design: IP42 and 6.8 foot (2.1 m) drop spec
- Loud, clear beeps and bright LED indicators for easily recognizing feedback
- Lightweight design: 5.1 oz (147 g) without cable



Optical & Performance

Receiving Device	Laser Engine
Light Source	650 nm visible laser diode
Optical Resolution	4mil (0.1mm)
Scan Rate	104 (± 12) scans/sec (bidirectional)
Skew Angle	±40° from normal
Pitch Angle	±65° from normal
Printing Contrast Scale	minimum 20%
Depth of Field	(DOF PCS=80%)
	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
	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
	Code 39, 100 mils 60.96 cm 457.20 cm
Symbologies	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 128, UCC Coupon Extended Code, Bookland 128
Operation Mode	Trigger mode, Pulse mode, Flash mode, Continuous Mode
Data Formatting	Prefix, Suffix, Code ID, Reformatting Date

Communication

Host Interface supported	USB
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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	5.1 oz (147 g) without cable
Trigger Switch Life	10 million times

Electrical

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

Environmental

ESD Protection	Functional after 8K Contact and 15K Air
Mechanical Shock	6.8 feet (2.1 m) onto concrete (scanner only)
IP Rate	IP42
Operating Temperature	14°F to 122°F (-10°C to 50°C)
Storage Temperature	-40°F to +158°F (-40°C to 70°C)
Relative Humidity	95% non-condensing

Regulatory

CE, FCC, BSMI, VCCI

Accessories

Standard Hands Free Stand (Optional)

Package Contents

MS851 Scanner
Interface cable



Specifications subject to change without notice.

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