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## MS851B 1D Bluetooth® Laser Scanner

Redefine work productivity with the MS851B wireless barcode scanner. High-speed efficiency coupled with low cost of ownership makes this 1D reader a great addition to warehouse, logistics, and manufacturing environments.

#### High Speed Laser Scanning Performance

With automatic scanning capability and a read rate of 104 scans per second, the MS851B reaches above and beyond the limitations of economy scanners in its class. Never worry about a missed scan because the MS851B reads damaged and poorly printed codes with ease, it also features long range barcode capture, maximizing versatility in one device.

#### Move without Restrictions

With the wireless MS851B, you have the freedom to move. Bluetooth® dual mode technology (Bluetooth® LE V4.2 & Bluetooth® 2.1+EDR, Class 1) offers reliable connections to the host while pairing to a smartphone, tablet, or computer is seamless. Data can be transmitted wirelessly from up to 328 feet (100 m) from the base. Up to 590,000 barcodes can be stored in the MS851's memory when out of range delivering convenience with every scan.

#### **Customizable Options**

The MS851B gives you the power to choose. With easily changeable modes, switch between trigger and presentation mode for a scanner that conforms to suit any business. An included charging cradle adds value to the device and cuts down on wear and tear from a charging cable. The cradle offers three-way cable management slots for additional scanners allowing convenient cable installation for multiple devices.

### All Day Use

The lithium-ion battery keeps the MS851B moving all day long for continuous usage. The device runs for up to 30 hours on a single charge while a long trigger lifecycle of up to 10 million times promotes consistent productivity. A 6.8 foot (2.1 meter) drop test and IP42 environmental seal protects the device from damage from falls and against elements like dirt, dust, and water. A long scanning range means the MS851B is suitable for a variety of uses such as retail and inventory applications.

#### Main Features:

- Supports Bluetooth® dual mode technology (Bluetooth® LE V4.2 & Bluetooth® 2.1+EDR, Class 1)
- Wireless transmission range up to 328 feet (100m) in the line of open sight
- High speed data capture performance: up to 104 scans/sec
- Long battery life: up to 30 hours on a single charge
- Durable design: IP42 rated and 6.8 feet (2.1m) drop spec
- Auto Bluetooth pairing / Auto switch between trigger & presentation mode with cradle

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## MS851B **Specifications**

#### **Optical & Performance**

Sensor Illumination Ambient Light Scan Rate Skew Angle Pitch Angle Roll Angle Optical Resolution Printing Contrast Scale Depth of Field

1D Laser 650 nm visible laser diode Sunlight: 8000 Ft Candles (86,111 Lux) 104 (± 12) scans/sec (bidirectional) ±40° from normal ±65° from normal ±35° from vertical 4mil (0.1mm) minimum 20% (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 Code 39, Full ASCII Code 39, 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

#### Communication

1D Symbologies

Radio

Wireless Coverage Interface / Profile Host Interface supported

Mechanical

Dimension Weight Trigger Switch Life Bluetooth® 2.1+EDR, Class 1 Dual mode 328 feet (100m) line of sight Serial Port and HID profiles USB, RS232

3.4 in x 2.8 in x 6.9 in (87.8 mm x 71.6 mm x 177.7 mm) 7.5 oz (213 g) without cradle 10 million times

Bluetooth® LE V4.2



2850mAh

<6.5 hours >30 hours

#### Electrical

Battery Type Battery Capacity Battery Charging time Operating Time User Indicators

#### Environmental

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

#### Regulatory

CE, FCC, BSMI, VCCI, NCC, TELEC, BQB

#### Accessories

Cradle Interface cable Battery pack

#### **Package Contents**

MS851B Scanner with battery Cradle Interface cable

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Specifications subject to change without notice.

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All product and company names are trademarks, service marks, or registered trademarks of their respective owners. LED & Beeper & Vibrator Functional after 8K Contact and 15K Air 6.8 feet (2.1 m) onto concrete (scanner only) IP42 14°F to 122°F (-10°C to 50°C) -40°F to +158°F (-40°C to +70°C)

95% non-condensing

Rechargeable and replaceable battery pack.