



# MS838B

## 2.4G Wireless 2D Imager Scanner

328ft/100m Connection | Saves data even when out of range | 16 hour battery life



Delivering reliable performance and an affordable price, the MS838B wireless 2D imager scanner combines superior 1D and 2D barcode scanning with the freedom of wireless technology. Its efficient mobility-friendly design allows users to move around without being restricted, and provides excellent comfort even during long periods of use. This reliable handheld scanner provides the optimum combination of performance and price, making it an ideal scanning tool for a wide range of market applications like point-of-sale, personal data verification, and inventory control.

### Move without Restrictions

Designed for mobile workers, the MS838B comes with a USB dongle that enables users to capture barcodes with a convenient wireless connection. With plug-and-play function, the MS838B pairs easily to laptops or PCs without complicated set-up. Users can transmit data to the host from up to 328ft from the base via 2.4G wireless communication. When it is out of range, the MS838B barcode scanner can store 40,000 EAN codes in memory and upload them to your devices at your convenience. It allows associates to capture barcodes from the checkout counter or walk to the warehouse to check your retail store's inventory without restrictions.

### Reliable 2D Scanning Performance

Thanks to quick, accurate capturing of most 1D and 2D barcodes displayed on phone screens, the MS838B helps retail cashiers apply coupons and process returns without frustration. It delivers great performance at up to 60 fps and captures high density codes with a 3 mil resolution and a scanning width up to 180mm. It is suitable for streamlining everyday processes in supermarket, retail store and warehouse applications.

### Durable

The MS838B has an IP42 rating for dust and water resistance as well as a 5ft drop spec that provides superior durability and reliability. Combining high performance and compact design, the MS838B gives mobile workers convenience and safe operation while staying on the move.

### Features

- 2.4G wireless transmission range up to 328ft with line of sight to host.
- Reads all major 1D and 2D barcodes including printed and digital.
- Long battery life, with up to 16 hours on a fully charged battery.
- Plug and play, convenient to use.
- Durable, compact, with long life trigger design.
- Rugged design with IP54 rating and 5ft drop spec.
- Buffer mode for out-of-range reading.
- Instant decoding feedback: LED, buzzer indicators.



# MS838B

## Specifications

### Optical & Performance

|                    |                                   |
|--------------------|-----------------------------------|
| Sensor             | CMOS Sensor, 640 x 480 pixels     |
| Aiming Element     | Red LED                           |
| Illumination       | White LED                         |
| Ambient Light      | 0-100,000 Lux                     |
| Scan Rate          | 60 fps/s                          |
| Skew Angle         | ±65°                              |
| Pitch Angle Sensor | ±60°                              |
| Roll Angle         | 360°                              |
| Memory             | 16MB                              |
| Optical Resolution | ≥ 3mil (code 39)                  |
| Depth of Field     | 60-310mm (13 mil, EAN13, PCS=90%) |

### Communication

|                          |                                    |
|--------------------------|------------------------------------|
| Radio                    | 2.4G Wireless                      |
| Wireless Coverage        | 2.4G: 328ft (100M) (line of sight) |
| Interface/ Profile       | 2.4G: USB                          |
|                          | Bluetooth: HID, BLE, SPP           |
| Host Interface supported | USB                                |

### Mechanical

|           |  |
|-----------|--|
| Dimension | 6.8in x 2.8in x 3.7in<br>(174mm x 72mm x 96mm) (L x W x H) |
| Weight    | 27oz (200g)  |

### Functionality

|                |  |
|----------------|--|
| Operation Mode | Trigger Mode, Presentation Mode, Buffer Mode |
|----------------|--|

### Regulatory Approvals

CE, FCC, BSMI, VCCI

### Symbologies

|                 |   |
|-----------------|---|
| 1D              | Codabar, Code11, Code39, Code32, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Code93, Code128, GS1-128, UPC-A, UPC-E, EAN 8, EAN 13, GS1 DataBar (RSS14), GS1 DataBar Limited, GS1 DataBar Expanded, etc |
| 2D              | PDF417, Micro PDF417, QR Code, Micro QR, Data Matrix, Aztec Code  |
| Data Formatting | Prefix, Suffix, Code ID   |

### Electrical

|                       |   |
|-----------------------|---|
| Operation Voltage     | DC 5V   |
| Current Consumption   | Operation mode: <250mA<br>Standby mode: <48mA |
| Indicator             | Buzzer LED light                              |
| Battery Type          | Lithium-ion                                   |
| Battery Capacity      | 2600mAh 18650 battery                         |
| Battery Charging time | Fully charged in 5 hours                      |
| Operating Time        | Over 16 hours                                 |

### Environmental

|                       |   |
|-----------------------|---|
| Mechanical Shock      | 5ft (1.5m) onto concrete (scanner only) |
| Operating Temperature | 14°F to 122°F (-10°C to 50°C)           |
| Storage Temperature   | -4°F to 140°F (-20°C to 60°C)           |
| Relative Humidity     | 5% to 95% non-condensing                |
| IP Rating             | IP42                                    |

### Package Contents

MS838B scanner  
2.4G Dongle  
USB Charging Cable



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