



# MS852 LR Series

## Wired & Wireless 2D Long Range Scanner



MS852 LR

MS852B LR

### Superior Long Range Barcode Scanner

Built in advanced megapixel barcode sensor, the MS852 LR Series has the ability to capture barcodes with the scanning range from 7.6cm near on a poor quality codes to 21m far on a shelf item in warehouse. With MS852 LR Series long-range scanner, users can easily to capture the barcodes on pallets or shelf at extended ranges that enhances the productivity and revolutionizes the way you do business.

### Intuitive and User-Friendly

This device also supports most 1D / 2D barcodes on mobile screens and special barcode symbologies such as OCR on passport and DotCodes on tires or cigarette package. With excellent motion tolerance design, the MS852 LR Series increased scan speed and operational effectiveness even while moving. Equipped with a louder beeper and brighter LED indicators, the MS852 LR Series allows users to recognize the feedbacks easily even in dark environment.

### Wireless for Flexibility (MS852B LR only)

Moreover, the MS852B LR supports Bluetooth® dual mode technology (Bluetooth LE® V4.2 & Bluetooth® 2.1+EDR, Class 1) to give you the freedom and bring your business the flexibility. It is compatible with any smartphone, tablet, or computer—the MS852B LR pairs easily to any mobile device or PC. Besides, it allows users to transmit data to the host from up to 100 meters from the base. When it is out of range, the MS852B LR Bluetooth® barcode scanner can store 590,000 codes in memory and upload to your devices at your own convenience.

### Ultra-Durability

While sustaining a 1.8-meter drop to concrete (2.2 meter with protection case), MS852 LR Series incorporated with IP42 rugged design for protection against dust and moisture. Moreover, the built-in long life cycle trigger of 10 million times guarantees a continuous productivity for best reliability.

### Features

- Superior performance with the scanning range up to 21m away
- Support most 1D / 2D barcode on mobile screens, OCR and DotCodes
- With excellent motion tolerance design suitable to read barcode while moving
- Long lifecycle trigger design: Up to 10,000,000 times.
- Ultra-rugged design : IP42 and 1.8m drop spec
- Dedicated design protective cover to protect scanner falling from a height (2.2m drop with protective cover)
- Wireless transmission range up to 100 m in the line of open sight. (MS852B LR)
- Support Bluetooth® dual-mode technology (MS852B LR) (Bluetooth LE® V4.2 & Bluetooth® 2.1+EDR, Class 1)
- Long battery life up to 12 hours per a fully charged battery (MS852B LR)
- Auto Bluetooth pairing / auto switch between trigger & presentation mode with cradle (MS852B LR)



MS852B LR

MS852 LR

# MS852 LR Series Specifications

## Optical & Performance

Sensor	1280 X 800 global shutter
Aiming Element	655nm
Illumination	Hyper Red 660nm
Ambient Light	10,000 ft. candles (107,639 lux)
Skew Angle	±60°
Pitch Angle Sensor	±60°
Roll Angle	0 - 360°
Optical Resolution	3.0 mil (Code 39), 5.0 mil (PDF417)
Printing Contrast Scale	25%
Depth of Field	SYMBOLOLOGY / X-DIM TYPICAL RANGE* Near Far
	10 mil Code 39 3.0 in / 7.6 cm 85.0 in / 215.9 cm
	13 100% UPC 3.5 in / 8.9 cm 90.0 in / 228.6 cm
	15 mil Code 128 6.0 in / 15.2 cm 100.0 in / 254.0 cm
	20 mil Code 39 4.0 in / 10.2 cm 172.0 in / 436.9 cm
	40 mil Code 39 6.0 in / 15.2 cm 340.0 in / 863.6 cm
	55 mil Code 39 7.0 in / 17.8 cm 430.0 in / 1092.2 cm
	100 mil Code 39 (paper) 20.0 in / 50.8 cm 700.0 in / 1778.0 cm
	100 mil Code 128 (reflective) 30.0 in / 76.2 cm 700.0 in / 1778.0 cm
	DataMatrix 10 5.0 in / 12.7 cm 45.0 in / 114.3 cm
	DataMatrix 55 5.0 in / 12.7 cm 250.0 in / 635.0 cm
	15 mil Code 128 (4 in. wide) 8.0 in / 20.3 cm 100.0 in / 254.0 cm
	100 mil QR Code 15.7in / 40.0 cm 820.7 in / 2085.0cm

## Communication

MS852 LR	
Host Interface supported	USB
MS852B LR	
Radio	Bluetooth LE® V4.2 & Bluetooth® 2.1+EDR, Class 2 Dual mode
Wireless Coverage	100m ( line of sight)
Interface/ Profile	Serial Port and HID profiles
Host Interface supported	USB, RS232
Memory Buffer	7MB for batch mode/ 20KB for auto mode

## Electrical

Operation Voltage	4 VDC to 5.5 VDC
Current Consumption	Operating: 710mA Standby: 79mA
Indicator	Buzzer, LED
MS852B LR	
Battery Capacity	2850mAh rechargeable battery pack
Battery Charging time	<6.5 hours
Operating Time	>12 hours
	Up to 50,000 scans at 1 scan/per sec by reading EAN8 at 20cm distance.

## Symbologies

1D	Code 39, Full ASCII, Code 32, Italian Pharmacode, Trioptic, Code 128, EAN-128, ISBT-128, Codabar, Code 11, Matrix 2 of 5, Chinese Matrix 2 of 5, UPC/EAN, UPCA, UPCE, UPCE1, EAN-8, EAN-13, Bookland/ISBN, ISSN, Coupon Code, Interleaved 2 of 5, Discrete 2 of 5, IATA, Databar, Code 93, MSI, UK Plessey, Telepen
2D	PDF Standard, Macro PDF, Micro PDF, Macro Micro PDF, Composite, TLC-39, Aztec, Data Matrix, QR Standard, Micro QR, GS1 QR, Maxicode, Han Xin, Grid Matrix, DotCode, OCR, Japan Postal, Australia Post, Canada Postal, Netherlands KIX Code, US Planet, USPS 4CB/One Code/Intelligent Mail, UPU FICS Postal, Mailmark, French Lottery, Posti45, Korean 3 of 5
OCR Barcodes	Support OCR barcodes
Data Formatting	Prefix, Suffix, Code ID, Reformatting Date

## Environmental

ESD Protection	Functional after 8K Contact and 15K Air
Mechanical Shock	1.8M onto concrete (2.2M with protection case)
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	95% non-condensing
IP Rating	IP42

## Mechanical

Dimension	87.8 L x 71.6 W x 177.7 H (mm)
Cradle Dimension	120.6 L x 88.7 W x 86.0 H (mm) (MS852B LR)
Weight	184g (MS852 LR) / 233g (MS852B LR without cradle)
Trigger Switch Life	10 million times

## Regulatory Approvals

MS852LR :	CE, FCC, BSMI, VCCI
MS852B LR :	CE, FCC, BSMI, VCCI, NCC, TELEC, BQB

## Accessories

Standard Hands Free Stand (Optional)

## Package Contents

MS852 LR	MS852B LR
· MS852 LR Scanner	· MS852B LR Scanner with battery
· USB Interface Cable	· Cradle
· Y cable	· Interface cable



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