



# MS352

## Affordable, worry free wireless scanning capabilities

Looking for an affordable solution for both 1D and 2D wireless scanning? MS352 is designed to remove restrictions!

### **Affordable and ready for standard to high density barcode reading**

Our MS352 fits into any environment, whether it is retail, warehouse or even a hospital. No need to worry about missing a beat in a noisy environment thanks to the vibration feedback the scanner gives. Next to this, the high transmission speed thanks to Bluetooth 4.2 connectivity; makes for quicker scanning.

The MS352 enables you to remove wired restrictions in your working environment. Moreover, its interface is also suitable for different applications, making this a widely applicable product to use. The MS352 acts in a market where the requirement for 2D scanning keeps increasing with a projected growth of 20% in the next five years.

### **Strong hardware and software**

The MS352 is not only widely applicable thanks to its software versatility, it is also suitable for rough environments thanks to its impressive drop resistance. It has both water, dust proof sealing and vibration feedback in the handle.

Successful scanning can be achieved by the wide range resolution of 1280x800 (HD) and wide skew, pitch and roll angles. 600 frames per second reading speed are attained.

### **Connectivity and durability**

The sturdy materials and wide range scanning resolution, combined with a 2600 mAh LI-ION battery and a durable trigger make the MS352 an incredible value-for-money option for any environment. The Bluetooth 4.2 Dual Mode, Class 2 Range connectivity and a range of 30 meters in open air also make it incredibly connected for even faster and more repetitive scanning. The MS352 is both suited for RS232 interface project requirements as well as high density barcode application projects.

### **Features**

- 2D, 1280x800 scanning resolution
- Scanning angles of 70° skew, 75° pitch and 360° roll
- 600 frames per second
- 2600 mAh Li-ION battery
- Connectivity with Dual Band BLE 4.2
- Durable construction with protection bumpers
- Comprehensive 4-year, worry-free warranty

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# v3.1 MS352 Specifications

## Operational & Performance

Receiving Device	2D Imager
Image size	1280 x 800 pixels
Min. Resolution	HD: 1D (Code 39): 3 mil HD: 2D (QR): 5 mil SR: 1D (Code 39): 4 mil SR: 2D (PDF417): 6.7 mil
Illumination	0~100,000 LUX
Field of View	Horizontal: ±42° / Vertical: ±26.5°
Scanning angle	Skew: ±70° / Pitch: ±75° / Roll: 360°
Printing Contrast	20% minimum reflection difference
Decoding Rate	600 times per second
Programming Method	Manual (reading special barcode)
Program Upgrade	Using Flash Utility software, while a cradle is required.

## Reading distance

	HD series	SR series
3 mil Code39 (3 chars)	10 – 61 mm	/
4 mil Code 128 (9 chars)	5 – 88 mm	55 – 106 mm
5 mil Code39 (3 chars)	0 – 108 mm	43 – 141 mm
10 mil Code39 (3 chars)	0 – 167 mm	0 – 310 mm
13 mil UPC (6 chars)	0 – 179 mm	0 – 335 mm
20 mil Code39 (1 char)	10 – 253 mm	8 – 480 mm
5 mil QR (40 chars)	7 – 65 mm	/
6.7 mil PDF417 (20 chars)	0 – 105 mm	37 – 145 mm
10 mil QR (20 chars)	0 – 134 mm	0 – 168 mm
20 mil QR (20 chars)	0 – 215 mm	0 – 345 mm

## Symbologies

1D	UPC-A, UPC-E, UPC-E1, EAN-13, EAN-8, ISBN (Bookland EAN), ISSN, Code 39, Code 39 full ASCII, Code 32, Trioptic Code 39, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Codabar (NW7), Code 128, UCC/EAN 128, ISBT 128, Code 93, Code 11 (USD-8), MSI/Plessey, UK/Plessey, China Post, China Finance, GS1 DataBar (formerly RSS) variants
2D	PDF417, MicroPDF417, QR code, DataMatrix, Aztec Code

## Indicator

Scanner	LED, Beeper, Vibrator
Cradle	LED

## Power Source

Operating voltage	5 ± 0.25 VDC (Scanner/Cradle)
Battery	2600 mAh Lithium-ion battery
Current scanner	Working: 350 mA / Standby: 20 mA
Current cradle	Working: 60 mA Charging: max. 500 mA
Charge Time	4 hours
Standby Time	4.5 days
Operating Time	46 hours (1 scan per 5 seconds)

## Enclosure

Scanner dimension	90.2 x 70 x 180 mm
Cradle dimension	118 x 89.5 x 74 mm
Scanner weight	210 g (Scanner only)
Cradle weight	140 g (Cradle only without cable)

## Environmental

Operating temperature	0°C to 50°C
Storage temperature	-40°C to 60°C
Humidity	5%-95% non-condensing
Drop resistance	1.5 m
IP rate	IP52

## Cable Cradle

Straight 2.0 m (PS/2) / Straight 1.5 m (USB) / Straight 2.0 m (RS-232)

## Communication

Radio Frequency	2.4-2.5 GHz, Bluetooth 4.2, Class 2 Range
Range	30 meters (open air)

## Safety

EMC	EN55022, EN55024
Electrical Safety	EN60950-1
Photobiological Safety	EN62471:2008

## Warranty

Scanner/cradle	4-year limited warranty
Battery	3 months

## Unitech Europe

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\* Warranty: Unitech reserves the right to call back the defect units at her discrete sole decision if Unitech may find it necessary. Upon the calling, the returning shipping cost will be borne by Unitech except tax and duty if any. Unitech has full decision to stop the warranty coverage before expiration if the defect is found due to abused, sabotage, and/or caused by the acts of God Specifications subject to change without notice.

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