



# 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 four 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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# v3.2 MS352 Specifications

## Operational & Performance

|                    |  |
|--------------------|--|
| Receiving Device   | 2D Imager  |
| Image size         | 1280 x 800 pixels  |
| Min. Resolution    | HD: 1D (Code 39): 3 mil<br>HD: 2D (QR): 5 mil<br>SR: 1D (Code 39): 4 mil<br>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.  |

## 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<br>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,<br>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                |

## 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                   |

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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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