

2D Bluetooth Scanner

unitech

MS352 V1.1

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 mm – 61 mm	/
4 mil Code 128 (9 chars)	5 mm – 88 mm	55 mm – 106 mm
5 mil Code39 (3 chars)	0 mm – 108 mm	43 mm – 141 mm
10 mil Code39 (3 chars)	0 mm – 167 mm	0 mm – 310 mm
13 mil UPC (6 chars)	0 mm – 179 mm	0 mm – 335 mm
20 mil Code39 (1 char)	10 mm – 253 mm	8 mm – 480 mm
5 mil QR (40 chars)	7 mm – 65 mm	/
6.7 mil PDF417 (20 chars)	0 mm – 105 mm	37 mm – 145 mm
10 mil QR (20 chars)	0 mm – 134 mm	0 mm – 168 mm
20 mil QR (20 chars)	0 mm – 215 mm	0 mm – 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	1400 mAh Lithium-ion battery
Current scanner	Working: 350mA / Standby: 20mA
Current cradle	Working: 60mA Charging: max. 500mA
Charge Time	4 hours
Standby Time	4.5 days
Operating Time	46 hours (1 scan per 5 seconds)

Enclosure

Scanner dimension	90.2mm x 70mm x 180mm
Cradle dimension	118mm x 89.5mm x 74mm
Scanner weight	210g (Scanner only)
Cradle weight	140g (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	IP51

Cable Cradle

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

Communication

Radio Frequency	MS352: 2.4-2.5GHz, Bluetooth 4.0, Class 2 Range.
Range	MS352: 30 meters (open air)

Safety

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

Preliminary

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