MS852B AND MS852B+

Dual-mode Bluetooth® 2D Imager Line



Redefine Work Productivity!

Maximizing versatility with the Unitech MS852B, MS852B+ and MS852B+ High Density Bluetooth Scanners.

Introducing the new MS852B series of High-Performance Bluetooth® 2D Imager Scanners. With high-speed efficiency and exceptional motion tolerance the MS852B offers a great addition to warehouse, logistics, manufacturing, hospitality, governmental and retail environments.

Performance Without Restrictions:
Featuring the latest 2D scanning technology, the MS852B has the ability to capture 1D / 2D barcodes displayed on mobile screens and even damaged or poorly printed barcodes. The MS852B+ supports Bluetooth® dual mode technology (Bluetooth® LE V4.2 and Bluetooth® 2.1+EDR, Class 1) will give you freedom and bring your business flexibility. Compatible with any smartphone, tablet, or computer, the MS852B+ pairs easily to any mobile device or PC and allows the user to transmit data to the host from up to 100 meters.

The Perfect Scanning Solution:
The MS852B series offers a cradle accessory that supports auto Bluetooth® pairing and it has the ability to switch between trigger or presentation mode automatically. One cradle can be paired with up to three scanners. In addition, this cradle integrates a paging button to locate your scanner and offers a three-way cable management slots for series. When it is out of range reading in Auto-Mode, the scanned data will be saved into the MS852B+ memory buffer automatically and transmit to the host when back to the wireless coverage. With bright and large LED indicators, a loud 90dB beeper and a vibrator function makes this scanner the ideal scanning solution to receive barcodes in noisy or dimly lit environments.

Full Shift Usage:
Built for continuous usage, the scanner is built with an easily replaceable 2850mAh lithium-ion battery and coupled with a 2.1 meter drop specification, the MS852B scanner will keep you moving all day long.

MS852B Series:
The MS851B Bluetooth series gives you the power to choose. Unitech introduces three different models to meet your requirements based on performance, functionality and accessory requirements. You can buy just the scanner to connect to other Bluetooth receiving devices or with a cradle that can connect to a device.



- The **MS852B** 2D Imager integrates a 1280 x 960 pixel circle LED aiming pattern with a long-life battery life up to 40 hours per full battery charge.
- The **MS852B+** 2D Imager integrates a high-performance 1280 x 800 crossed laser aiming pattern with a read speed of 60 fps with a 6 m/s motion tolerance. It can read special barcode symbologies such as OCR on ID cards and passport, DotCodes on tabaco packages and Digimarc barcodes; with a battery life up to 25 hours per full battery charge.
- The **MS852B+ HD(High Density)** has all the great benefits of the MS852B+ but can also read a large amounts of data in a small barcode area.

Specifications are subjected to change without notice.

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unitech

Specifications

unitech
because we care

MS852B Premium
Standard 2D imager
Standard range

Physical characteristics

Sensor	1280 X 960 rolling shutter
Aiming Element	Green LED
Illumination	1 warm white LED
Ambient light	107.639 Lux (Direct sunlight)
Angle Sensor	±60° Skew, ±60° Pitch
Roll Angle	0 - 360°
Printing Contrast Scale	Minimum 20%

Reading distance (DOF)*

Symbology	Near (mm)	Far (mm)
5 mil Code39	61	241
5 mil Code128	71	229
6.67 mil PDF417	61	203
10 mil DataMatrix	74	216
100% UPCA	46	495
15 mil QR	30	292
20 mil QR	30	356

* Depending on width, type and quality of barcode.

Communication

Radio	Bluetooth® LE V4.2, Bluetooth® 2.1 +EDR, Class1, Dual mode
Wireless Coverage	100m (line of sight)
Interface/ Profile	Serial Port and HID profiles
Host Interface	USB, RS232
Memory Buffer	7MB (batch mode) 20KB (auto mode)

Mechanical

Scanner Dimension	87.8 L x 71.6 W x 177.7 H (mm)
Scanner Weight	213g (without cradle)
Trigger Switch Life	10 million times
Cradle Dimension	120.6 L x 88.7 W x 86.0 H (mm)

Symbologies

1D	All major symbologies
2D	QR Code, Data Matrix, Aztec Code, PDF417, Macro PDF417, Micro PDF417, MaxiCode, Coda block A, Codablock F, GS1 Composite, Han Xin Code Postal: Australian Post, British Post, Canadian Pos, InfoMail, Intelligent Mail Bar Code, Japanese Post, KIX (Netherlands) Post, GS1 Composite, Korea Post, Planet Code, Postal, Postnet

Electrical

Indicator	LED & Beeper & Vibrator
Battery Type	Rechargeable & replaceable pack
Battery Capacity	2850mAh
Charging time	<6.5 hours
Operating Time	>40 hours

Environmental

ESD Protection	Functional after 8K Contact 15K Air
Mechanical Shock	2.1M onto concrete (scanner only)
Operating Temp.	-10°C to 50°C
Storage Temp.	-40°C to +70°C
Relative Humidity	95% non-condensing
IP Rating	IP42

Regulatory Approvals
CE, FCC, BSMI, VCCI, NCC, TELEC, BQB

MS852B+ (SR)
Premium 2D imager
Standard range

Physical characteristics

Sensor	1280 X 800 global shutter
Aiming Element	Red laser
Illumination	White LED (exempt risk group)
Ambient light	100,000 Lux (Sunlight)
Angle Sensor	±60° Skew, ±60° Pitch
Roll Angle	0 - 360°
Printing Contrast Scale	Minimum 20%

Reading distance (DOF)*

Symbology	Near (mm)	Far (mm)
13 mil UPC	44	573
5 mil Code39	70	301
10 mil Code39	40	517
20 mil Code39	44	800
15mil Code128	42	650
10 mil DataMatrix	72	297
6.7 mil PDF417	84	244
15 mil QR	39	414

* Depending on width, type and quality of barcode.

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Symbologies

1D	All major symbologies
2D	All same 2D barcode as MS852B model and additional: **2D Stacked:** Codablock A, Codablock F, PDF417, MicroPDF417 **2D Matrix:** Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible (Han Xin), Grid Matrix, **Dot code**.
Other	Support **OCR** barcodes Supports **Digimarc** barcodes

Electrical

Indicator	LED & Beeper & Vibrator
Battery Type	Rechargeable & replaceable pack
Battery Capacity	2850mAh
Charging time	<6.5 hours
Operating Time	>25 hours

Environmental

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MS852B+ (HD)
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High Density

Physical characteristics

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Illumination	White LED (exempt risk group)
Ambient light	100,000 Lux (Sunlight)
Angle Sensor	±60° Skew, ±60° Pitch
Roll Angle	0 - 360°
Printing Contrast Scale	Minimum 20%

Reading distance (DOF)*

Symbology	Near (mm)	Far (mm)
13 mil UPC	38	405
3 mil Code39	66	183
5 mil Code39	53	265
6,7 mil DataMatrix	72	180
10 mil DataMatrix	59	248
5 mil PDF417	74	186
6.7 mil PDF	59	238
6.7 mil QR	72	163
15 mil QR	27	308

* Depending on width, type and quality of barcode.

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