MS852B AND MS852B+
Dual-mode Bluetooth® 2D Imager Line

MS852B

MS852B+

MS852B+ HD

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 640 x 400 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.

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unitech
because we care

3 YEAR WARRANTY — MS852B Premium
Standard 2D imager
Standard range

3 YEAR WARRANTY — MS852B+ (SR)
Premium 2D imager
Standard range

3 YEAR WARRANTY — MS852B+ (HD)
Premium 2D imager
High Density

Physical characteristics

	MS852B Premium	MS852B+ (SR)	MS852B+ (HD)
Sensor	CMOS 640 x 400 pixel	1280 X 800 global shutter	1280 X 800 global shutter
Aiming Element	610nm	Red laser	Red laser
Illumination	Hyper Red 660nm	White LED (exempt risk group)	White LED (exempt risk group)
Imager Field of View	107.639 Lux	100,000 Lux (Sunlight)	100,000 Lux (Sunlight)
Angle Sensor	±60° Skew, ±60° Pitch	±60° Skew, ±60° Pitch	±60° Skew, ±60° Pitch
Roll Angle	0 - 360°	0 - 360°	0 - 360°
Printing Contrast Scale	Minimum 20%	Minimum 20%	Minimum 20%

Reading distance (DOF)*

MS852B Premium — Min. Resolution: 5mil C39

Symbology	Near (mm)	Far (mm)
13 mil UPC	50	317
5 mil Code39	51	162
20 mil Code39	50	495
10 mil DataMatrix	59	248
20 mil DataMatrix	38	343
20 mil QR	38	279
5 mil Code128	63	127
10 mil PDF417	45	228
6.6 mil PDF417	63	160

* Depending on width, type and quality of barcode.

MS852B+ (SR) — Min. Resolution: 3mil C39, 7mil DM, 7mil QR, 4mil PDF417

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.

MS852B+ (HD) — Min. Resolution: 2.5mil C39, 5mil DM, 5mil QR, 4mil PDF417

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.

Communication

	MS852B Premium	MS852B+ (SR)	MS852B+ (HD)
Radio	Bluetooth® LE V4.2, Bluetooth® 2.1 +EDR, Class1, Dual mode	Bluetooth® LE V4.2, Bluetooth® 2.1 +EDR, Class 1, Dual mode	Bluetooth® LE V4.2, Bluetooth® 2.1 +EDR, Class 1, Dual mode
Wireless Coverage	100m (line of sight)	100m (line of sight)	100m (line of sight)
Interface/ Profile	Serial Port and HID profiles	Serial Port and HID profiles	Serial Port and HID profiles
Host Interface	USB, RS232	USB, RS232	USB, RS232
Memory Buffer	7MB (batch mode) 20KB (auto mode)	7MB (batch mode) 20KB (auto mode)	7MB (batch mode) 20KB (auto mode)

Mechanical

	MS852B Premium	MS852B+ (SR)	MS852B+ (HD)
Scanner Dimension	87.8 L x 71.6 W x 177.7 H (mm)	87.8 L x 71.6 W x 177.7 H (mm)	87.8 L x 71.6 W x 177.7 H (mm)
Scanner Weight	213g (without cradle)	213g (without cradle)	213g (without cradle)
Trigger Switch Life	10 million times	10 million times	10 million times
Cradle Dimension	120.6 L x 88.7 W x 86.0 H (mm)	120.6 L x 88.7 W x 86.0 H (mm)	120.6 L x 88.7 W x 86.0 H (mm)

Symbologies

MS852B Premium

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

MS852B+ (SR)

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

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Electrical

	MS852B Premium	MS852B+ (SR)	MS852B+ (HD)
Indicator	LED & Beeper & Vibrator	LED & Beeper & Vibrator	LED & Beeper & Vibrator
Battery Type	Rechargeable & replaceable pack	Rechargeable & replaceable pack	Rechargeable & replaceable pack
Battery Capacity	2850mAh	2850mAh	2850mAh
Charging time	<6.5 hours	<6.5 hours	<6.5 hours
Operating Time	>40 hours	>25 hours	>25 hours

Environmental

	MS852B Premium	MS852B+ (SR)	MS852B+ (HD)
ESD Protection	Functional after 8K Contact 15K Air	Functional after 8K Contact 15K Air	Functional after 8K Contact 15K Air
Mechanical Shock	2.1M onto concrete (scanner only)	2.1M onto concrete (scanner only)	2.1M onto concrete (scanner only)
Operating Temp.	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C
Storage Temp.	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Relative Humidity	95% non-condensing	95% non-condensing	95% non-condensing
IP Rating	IP42	IP42	IP42

Regulatory Approvals

MS852B Premium	MS852B+ (SR)	MS852B+ (HD)
CE, FCC, BSMI, VCCI, NCC, TELEC, BQB	CE, FCC, BSMI, VCCI, NCC, TELEC, BQB	CE, FCC, BSMI, VCCI, NCC, TELEC, BQB