MS852B

Bluetooth® 2D Imager Scanner

Combining mobility wireless design and 2D scanning performance in one scanner, the unitech MS852B wireless scanner delivers the simple way to do the inventory control faster and efficiency for business solutions from warehousing, manufacturing, logistics to general purpose retail scanning. Additionally, it is available to read OCR.

Move without Restrictions

Featuring 2D scanning technology, the MS852B has the ability to capture most 1D / 2D barcodes on mobile screens, even damaged or poorly printed barcodes. Moreover, the MS852B supports Bluetooth® dual mode technology (Bluetooth® LE V4.2 & Bluetooth® 2.1+EDR, Class 1) to give you the freedom and bring your business the flexibility. It is compatible with any smartphone, tablet, or computer–the MS852B pairs easily to any mobile device or PC. Besides, it allows users to transmit data to the host from up to 100 meters from the base.

User-Friendly with Cradle Accessory

This MS852B+ wireless scanner has a cradle accessory that supports auto Bluetooth® pairing and it has the ability to switch between trigger or presentation mode automatically. 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. Moreover, MS852B can be set to batch mode reading, all the scanned data will be stored in a memory buffer and upload to your devices at your own convenience.

Compact but durable

Built for all day use, the MS852B is built in a lithium-ion battery can be replaced easily. It has a long life battery life 20 hours per battery charge. While sustaining a 2.1 meter drop to concrete, MS852B incorporated with IP42 rugged design for protection against dust and moisture. Moreover, the built-in long lifecycle trigger of 10 million times guarantees a continuous productivity for best reliability. This scanner can be used in the most practical way depending on the scanning task in various solutions in retail, warehousing, manufacturing, logistics.

Features

- Support OCR, most 1D / 2D barcode on mobile screens, even damaged or poorly printed barcodes
- Support Bluetooth® dual mode technology (Bluetooth® LE V4.2 & Bluetooth® 2.1+EDR, Class 1)
- Wireless transmission range up to 100m in the line of open sight
- Long battery life 20 hours per a fully charged battery
- Durable design : IP42 and 2.1m drop spec
- Auto Bluetooth pairing / auto switch between trigger & presentation mode with cradle

unitech

MS852B
Specifications

Optical & Performance

Sensor	CMOS sensor with 1280 x 960 pixels, rolling shutter
Aiming Element	610nm, Green LED
Illumination	1 warm white LED
Skew Angle	± 60°
Pitch Angle Sensor	± 60°
Roll Angle	0 - 360°
Optical Resolution	5.0 mil (Code 39), 6.6 mil (PDF417)
Printing Contrast Scale	Minimum 20%

Depth of Field (DOF PCS=80%)

Barcode type	Near	Far
5 mil Code 39	2.4 in / 6.1 cm	9.5 in / 24.1 cm
5 mil Code 128	2.8 in / 7.1 cm	9.0 in / 22.9 cm
6.67 mil PDF417	2.4 in / 6.1 cm	8.0 in / 20.3 cm
10 mil Data Matrix	2.9 in / 7.4 cm	8.5 in / 21.6 cm
100% UPC	1.8 in / 4.6 cm	19.5 in / 49.5 cm
15 mil QR Code	1.2 in / 3.0 cm	11.5 in / 29.2 cm
20 mil QR Code	1.5 in / 3.8 cm	11.5 in / 29.2 cm

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 supported	USB, RS232
Memory Buffer	7MB for batch mode / 20KB for 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)

Regulatory Approvals

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

Symbologies

1D	UPC/EAN/JAN, Code 128, Code 39, Code 93, Code 11, Interleaved 2 of 5 (ITF), Discrete 2 of 5 (DTF), Codabar (NW - 7), MSI, Chinese 2 of 5, Matrix 2 of 5, Korean 3 of 5, Inverse 1D, GS1 DataBar, Composite Codes
2D	2D :QR Code, DotCode, Data Matrix, Aztec Code, PDF417, Macro PDF417, Micro PDF417, MaxiCode, Coda block A, Codablock F, GS1Composite, 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 and replaceable battery pack.
Battery Capacity	2850mAh
Battery Charging time	<6.5 hours
Operating Time	20 hours

Environmental

ESD Protection	Functional after 8K Contact and 15K Air
Mechanical Shock	2.1M onto concrete (scanner only)
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Relative Humidity	95% non-condensing
IP Rating	IP42

Accessories

Cradle
Interface cable
Battery pack

Package Contents

MS852B Scanner with battery
Cradle
Interface cable

Headquarters
Taipei, Taiwan
http://www.ute.com e-mail: info@hq.ute.com

unitech America
Los Angeles
http://us.ute.com e-mail: info@us.ute.com
http://can.ute.com info@can.ute.com
Mexico
http://latin.ute.com e-mail: info@latin.ute.com

unitech Asia Pacific & Middle East
Taipei
http://apac.ute.com info@apac.ute.com / info@india.ute.com
http://mideast.ute.com info@mideast.ute.com

unitech Europe
Tilburg / Netherlands
http://eu.ute.com e-mail: info@eu.ute.com

unitech Japan
Tokyo
http://jp.ute.com e-mail: info@jp.ute.com

unitech Greater China
Beijing, Shanghai, Guang Zhou, Xiamen
http://cn.ute.com info@cn.ute.com
Taipei http://tw.ute.com info@tw.ute.com

Specifications subject to change without notice. Copyright 2026 unitech Electronics Co., Ltd. All rights reserved. unitech is a registered trademark of unitech Electronics Co., Ltd.
All product and company names are trademarks, service marks, or registered trademarks of their respective owners.

www.ute.com
05/26 Rev.I(SE4107)