



# HUGEROCK R50UB Version:2021

## RUGGED DATA COLLECTOR HANDHELD

Rugged Data 1D/2D Scanners with 99 ft Extended Flex Range

R50UB rugged mobile handheld is from SOTEN TECH, The product has 4.5-inch QHD screen with 550nit, Sunlight readable, based on a MTK Helio P60 Octa-core processor and 4G communication technology, and 5000 mAh high-capacity replaceable battery. Use Android system with GMS certification and support Safeum EDM system. R50UB is equipped with Honeywell EX30 long-distance 1D/2D scan engine, Which can seamlessly read barcodes from 10 cm to 30 m [4 in to 99 ft]\* using the latest technology for a fast auto-focus mechanism which, It can easily to collect barcodes on the top of warehouse shelves and improve staff work efficiency. The products can be applied to many application scenarios including warehousing, patrol inspection, logistics and express delivery, manufacturing, new retail of stores, asset management and so on, which can help enterprises improve their management level.

-   
4 in to 99 ft  
Extended FlexRange
-   
5000mAh  
Polymer battery
-   
MIL-810G  
Drop-proof 1.8m
-   
Helio P60 A73  
12nm FinFET
-   
Google  
GMS
-   
Mobile Device  
Management  
by Safeum
-   
Bluetooth
-   
WI-WF
-   
All-mode  
full Bands

\* Depends on the width of the bar code (shorter bar codes can be read even at closer distances, while wider bar codes need to be further away).  
\*\* In darker ambient light conditions, the distance is reduced.



HUGER  CK-R50UB  
Tools for M-IOT

Shenzhen SOTEN Technology Co., LTD  
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- 1. Power button
- 2. Scan button
- 3. MIC
- 4. Scanner
- 5. Decorative pieces
- 6. Earphone (Sealed Cover)
- 7. light sensation
- 8. Handset
- 9. Charge lamp
- 10. Home
- 11. Arrow and confirm Button
- 12. Menu Button
- 13. Back Button
- 14. Number Button
- 15. Power ON/OFF
- 16. \* Button
- 17. # Button
- 18. 2pin pogo pin
- 19. Type-C (Sealed Cover)
- 20. Volume up
- 21. Volume Down
- 22. main camera(optional)
- 23. LED
- 24. Speaker
- 25. Battery



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## SPECIFICATION

Model: R50UB

Hardware		Communications & Networking	
CPU	ARM Cortex A73 Octa-core (2.0GHz)	Phone Call	GSM /WCDMA/CDMA 1X/VoLTE
GPU	ARM Mali-G72 MP3	2G	GSM/CDMA 1X/EDGE/GPRS/WAP
RAM	8G	2G Band	GSM (B2/3/5/8)
Internal Memory	128G	3G	WCDMA 3.75G (HSDPA+ 42.2Mbps, HSUPA+ 11.5Mbps), EVDO
External Memory	Micro SD card (T-FLASH card), max 256GB	3G Band	WCDMA (B1/2/5/8), Evdo: BC0/BC1 CDMA: BC0/BC1
Main Camera	13.0MP(AF) with flash led	4G	FDD: 150Mbps down, 50Mbps UP TDD: 150Mbps downlink, 50Mbps uplink
Sub Camera	N/A	4G Band	TD-LTE (B38/39/40/41); FDD LTE (B1/2/3/4/5/7/8/12/17/20/28)
Battery	5000mAh (Replaceable battery)	Wi-Fi	Dual-band WIFI (2.4GHz/5GHz) single stream 802.11 a/b/g/n/ac
Display	4.5 inch IPS/AFFS 960*540 QHD industrial 500nit Sunlight Readable	Bluetooth	4.2 Low Energy (LE)
Touch Panel	Capacitive/frosted tempered film supports glove touch/spray/active capacitive pen	Industrial & Reliability Design	
Data capture		Shake-proof	1-19Hz/1.0mm; 19-200Hz/1.0g
Scanning Engine	Honeywell EX30 long-distance 1D/2D scan engine	Dropproof /IK	MIL-STD-810G/Method516.6/Procedure IV & Touch Panel IK05
IO/Sensor/Navigation		Waterproof	Class 6 (IEC 60529)
SIM Card	1.8/3.3V SIM	Dustproof	Class 6 (IEC 60529)
TF Card	Micro SD card (T-FLASH card); max 256GB	Operating temperature	-20°C to 55°C
Headphone	3.5mm (CTIA)	Storage Temperature	-40°C to 80°C
Charging interface	Type-C & 2pin pogo pin	Reliability	MTBF>5000h; MTTR<0.5h
Data interface	USB Type-C(OTG)*1	RH	5%RH-95%
Gravity sensor	support	Operating Altitude	Max: 4,500m (15,000 feet)
Direction Sensor	support	Certification/OS/Software	
Magnetic Field Sensor	support	Certification	3C /FCC/CE/ROHS/IP66 (IEC 60529)
Gyro sensor	support	Language	English, Spanish, Portuguese (Brazil), Portuguese (Portugal), Italian, German, Dutch, French, Polish, Romanian, Turkish, Russian, Arabic, Indonesian, Malay, Thai, Vietnamese, Hindi, Hebrew, Simplified, Chinese,Chinese Traditional, etc.
Rotation Vector	support	OS	Android 10.0 / Android 11.0
Light-sensor	support	Package/Warranty terms/OEM	
Acceleration sensor	support	Warranty	24 months
Charger	5.0V 2A-10W	OEM/ODM	Support
Navigation	GPS+Beidou+Glonass+AGPS+SBAS (EPO 2.5m)	Package	
Appearance		USB cable/Charger 5V 2A/Introduction manual/Screen protector/Packing box (Can be customized logo)/Aircraft box/Toolkit (optional)	
Size	197*92*45mm (LxWxH)		
Weight	420g		
Color & Material	Gray (PC+ABS)		



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## MODULE PARAMETERS




### 1D/2D Barcode Scan Engine

**10CM-30M Extended FlexRange**  
Sensor Technology: global shutter  
Resolution: 1280\*800 pixels  
Frames per second: white LED  
Aimer: laser pointer(dot)  
Motion Tolerance: near(up to 6 m/s [19.7 ft/s]) Far(up to 0.9 m/s [3.0 ft/s])  
Field of view: Near(horizontal: 42.5° ±2°, vertical: 27.4° ±2°) FAR(horizontal: 11.4° ±1°, vertical: 7.2° ±1°)  
Symbol Contrast: 20%

### SYMBOLOGIES TYPE

**LINEAR**  
Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended Coupon Code, Coupon GS1 Code 32(PARAF), EAN-UCC Emulation, GS1 Data Bar

**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

**POSTAL**  
Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet.

### READ RANGES (TYPICAL, WHITE ILLUMINATION)

SYMBOLGY	NEAR DISTANCE (CM [IN])**	FAR DISTANCE (CM [IN])**
13 MIL UPC	5 [1.97]	280 [100.24]
5 MIL C39	9.5 [3.74]	136 [53.54]
10 MIL C39	6 [2.36]	236 [103.54]
20 MIL C39	8 [3.15]	589 [231.89]
55 MIL C39	20 [7.07]	1500 [590.55]
10 MIL QR	9 [3.54]	138 [54.33]
55 MIL QR	12 [4.72]	704 [277.16]
100 MILS C39 RFL	36 [14.17]	2900 [1141.73]
100 MILS C128 RFL	26 [10.24]	2250 [885.83]

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