unimes 优尼麦斯

i50UHF

Powerful and durable

Super long distance, ultra fast group reading, hyper scanning

Equipped with a high-performance UHF read-write module and high-sensitivity antenna, the read-write distance can reach more than 10 meters, and tag reading ≥ 200tags/s;

Equipped with the most powerful barcode scanning engine in the industry: decoding speed increased by 50%; AI intelligent dimming & power saving mode; adaptive depth of field + wider reading range.

Large battery, long battery life

It adopts a rechargeable dual battery system, UHF maximum power output, continuous working time> 3.5 hours, and barcode scanning can be continued for more than 12 hours with a grip to ensure that the device works normally throughout the day.

Configuration upgrade

Android 9.0 OS+8-core 2.0 GHz CPU, up to 6GB RAM+128GB ROM, which can handle multitasking at ultra speed and bring smooth operation;

In-depth optimization of Wi-Fi performance: Wi-Fi a/b/g/n/r/ac protocol + high-performance 5G PA amplifier, standard fast roaming, stable connection; Wi-Fi performance is at its best, meeting the demand for faster transmission rates in complex environments, upgrade Bluetooth 5.0 connection, faster and more stable, lower power consumption; support simultaneous connection of multiple Bluetooth devices.

Easier to use, lighter and more flexible

4.7-inch screen, golden size for one hand operation;Ultra-high-definition display, 1280*720 resolution; industrial-grade ultra-sensitive capacitive screen, which supports touch with gloves and wet hands;

Flexible disassembly, the main unit, handle and module can be purchased separately.

i50UHF Specification

FC ℃℃℃ CE RoHS

System Configuration

CPU	Octa-core 2.0 GHz
Operating System	Android 9.0
Memory	16GB + 2GB (optional 128GB+6GB/64GB+4GB/32GB+3GB)
Expansion Slot	Micro SD card, up to 256 GB
Display	4.7 inch, 1280 x 720 high resolution
Touch Panel	Industrial-grade capacitive touch panel (supporting operation with gloves)
Camera	8 MP autofocus camera in the back side (13 MP optional), 5MP front camera optional
Exit Window	Corning Gorilla glass
Keypad	4 front keys, 4 side keys, Power key (can be set as customized key)
Battery	3600mAh rechargeable lithium polymer battery (PDA) 3.7V 5200 mAh (pistol grip)
Audio	Built-in microphone /Micro USB/Headphone connector
Notification	Vibrator alerts/LED/Audio notification
Vibration Motor	Built-in programmable vibration motor
Sensor	G-Sensor/Proximity sensor/Light sensor

Structural Parameters

Dimensions (LxWxD)	PDA: 150 mm x 73.5 mm x 16 mm(head 24mm thick) PDA+ handle: 175mm x 89mm x 165mm
Weight	PDA(include battery)+ pistol grip(with RFID)710g PDA (include battery)+ pistol grip(without RFID)530g

Communication Transmission

Wireless WAN (Network frequency)	Asia & Europe: 2G: B2/B3/B5/B8 3G: WCDMA: B1/B2/B5/B8 CDMA BC0 TD-SCDMA:B34/B39 4G: FDD-LTE: B1/B3/B7/B8/B20 TDD-LTE：B34/B38/B39/B40/B41 America: 2G: B2/B3/B5 3G: B1/B2/B4/B5; CDMA BC0/BC1 (U.S.A) 4G: B1/B2/B3/B4/B5/B7/B12/B17/B28A/B28B/B41
Wireless WAN (Data service)	GSM/GPRS/EDGE/CDMA/UMTS/HSPA/HSPA+/EVDO/ WCDMA/TD-SCDMA/TDD-LTE/FDD-LTE
Wireless LAN	Wi-Fi 802.11ac/a/b/g/n/r 5G PA (Dual-band Wi-Fi: 2.4G+5G)
Bluetooth	Bluetooth 5.0
GPS	GPS/AGPS/Beidou Compass/Galileo/Glonass

Operating Environment

Development Tools	Android SDK+JDK+Eclipse
Program Language	Java
Operating Temp.	-20℃ ~ 60℃ (-4°F ~ 140°F)
Storage Temp.	-40℃ ~ 60℃ (-40°F ~140°F) battery included -40℃ ~ 70℃ (-40°F ~158°F) battery not included
Relative Humidity	0 ~ 95% (non-condensing)
Sealing	IP65
ESD	15 kV air discharge, 8 kV direct discharge

1D Laser Scanner

Scan Precision	5mil
Rotate Angle	±35°
Pitch Angle	±65°
Skew Tolerance	±50°
Ambient Light	Sunlight: 10,000ft. Candles (107,640Lux) Artificial: 450ft. Candles (4,844Lux)
Scan Frequency	104±12 times/second
Laser Safety Grade	Class II
Code Support	UPC/EAN, POST, Code 128, Code 39, Code 93, Code 11, Coda bar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSSI etc.

1D / 2D Area Imager

Scan Precision	3mil c39/128
Rotate Angle	360°
Pitch Angle	±45°
Skew Tolerance	±65°
Scan Frequency	50ms
Laser Safety Grade	Class II
Image Resolution	844(H)×640(V)
Image Frame	60fps
Light Source System	White light, laser aiming
Mini. Print Contrast	20%
Code Support：	Aztec Code , Codabar , Codablock F , Code 11 , Code 128 , Code 2 of 5 , Code 39 , Code 93 , Data Matrix , EAN/JAN-13 , EAN/JAN 8 , EAN-UCC Composite Codes , EAN-UCC Emulation , IATA Code 2 of 5 , Interleaved 2 of 5 , Matrix 2 of 5 , MaxiCode , MicroPDF417 , MSI , PDF417 , Postal Codes (Australian Post , British Post , Canadian Post , China Post , Japanese Post , Korea Post , Netherlands Post , Planet Code , Postnet) , Plessey Code , PosiCode , QR Code , RSS Expanded , RSS Limited RSS-14 , TCIF Linked Code 39 , Telepen , Trioptic Code , UPC-A , UPC-E etc

RFID (Optional)

Frequency	902MHz-928MHz， 865MHz-868MHz
Protocol	ISO18000-6B/6C/6D
Antenna	4dBi circularly polarized antenna
Output power	5-30dbm adjustable
Data Capture Range	10m(depends on labels)

Input/Output Ports

USB Port	1 (Micro USB port)
Charger Port	1
OTG	Support

Accessories

Standard	Battery, Power adapter, 3 in 1 cradle, USB cable
Optional	Debug connection line

Main application areas:

Logistic　Retail　Warehousing　Public　HealthCare　Manufacturing

4G　WiFi　NFC