iData 55HC Healthcare Mobile Computer

Comprehensive performance upgrade

➢ **Deep optimization of scanning performance**

✦ **Quick scanning**

Core technologies Smart light 2.0： decoding speed increased by 50%, decode 1200 times per minute;

✦ **Long-lasting barcode scanning**

AI intelligent dimming & power saving mode, according to the scene automatically fill light & adjust power consumption, reduce power consumption, battery life significantly improved;

✦ **The farther the scanning depth of field**

Wider reading range, depth of field increased by 30% on average;

Adaptive depth of field.

✦ **Deep optimization of Wi-Fi performance**

✦ **Wi-Fi a/b/g/n/r/ac:** 5G Wi-Fi network, standard fast roaming, stable connection, zero delay, no drop;

✦ **High-performance 5G PA amplifier:** Wi-Fi performance is maximized to meet the needs of faster transmission rates in complex environments.

➢ Comprehensive upgrade

◆ **Enterprise-class Android OS + Octa-core CPU;**

◆ Upgrade to Bluetooth 5.0 connection, faster and more stable, lower power consumption; support to connect multiple Bluetooth devices at the same time.

➢ Endurance performance improvement

◆ Standard 3600mAh large-capacity battery, maximum capacity optional 7200mAh, support 5V / 2A and 9V / 2A fast charging solution.

➢ It is easier to be used and more portable.

◆ **4.7-inch HD screen with full viewing angle and touch panel to make work efficient** Suitable for one hand operation with ultra-high-definition display of 1280*720 resolution. The touch screen uses industrial-grade ultra-sensitive capacitive screen to support gloves and wet hand operation;

◆ **It is very portable to make work easier** It weighs only 230g including the battery, which makes it the most portable device in the industry. It can be easily kept in a pocket and be used for long time without fatigue with its ergonomic design. The medical-grade antibacterial shell can effectively avoid cross infection.

System Configuration

CPU	Octa-core 2.0 GHz
Operating System	Android 9.0
Memory(ROM+RAM)	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
Battery	3.8V 7200mAh / 3600mAh rechargeable lithium polymer battery
Quick charge	Support quick charge
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)	150 mm×73.5 mm×16 mm (head 24mm thickness)
Weight	230g (battery included)

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 (optional)	GPS/AGPS/Beidou Compass/Galileo/Glonass

Operating Environment

Development Tools	Android SDK+ JDK + Eclipse
Programming Language	Java
Operating Temp.	-20℃ ~ 60℃(-4℉ ~ 140℉)
Storage Temp.	-40℃ ~ 60℃（-40℉ ~140℉) battery included -40℃ ~ 70℃（-40℉ ~158℉) battery not included
Relative Humidity	0 ~ 95% (non-condensing)
Drop Specification	1.5-meter drops to concrete ground
Sealing	IP65
Electrostatic Discharge	Conforms to ±15 kV air discharge, ±8 kV direct discharge,Surge prevention design

1D Laser Scanner

Scan Precision	5mil
Rotate Angle	±35°
Pitch Angle	±65°
Skew Tolerance	±50°
Ambient Light	Sunlight: 10,000ft. Candles (107,640Lux)
	Artificial Light: 450ft. Candles (4,844Lux)
Scan Frequency	104±12 /sec
Laser Safety Grade	Class II
Code Support	UPC/EAN, POST, Code 128, Code 39, Code 93, Code 11, Codabar, 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	1 scans /50ms
Laser Safety Grade	Class II
Image Resolution	844(H)×640(V)
Image Frame	60fps
Light Source System	White light, laser aiming
Minimum Printing 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.

NFC （Optional）

Frequency	13.56 MHz
Reading Distance	Within 30 mm
Protocol	ISO14443A/14443B/15693

Input/Output Ports

USB Port	1 (Micro USB port)
Charger Port	1 (Charging interface at the bottom)
Headset Port	1
OTG	Support

Accessories

Standard	Battery, Power adapter, Hand strap, Screen protector(PET), Bottom charging cable
Optional	USB cable, Single cradle, Charging cradle, 4-slot device cradle, 4-slot battery cradle, Carry case (with wrist strap), Screen protector(composite), Q5000