iData 55HC

Touch-control Android Medical Terminal

Cost-effective, competent for almost all medical scenarios

A mobile medical terminal can increase work efficiency and service quality for both clinical nurses and staff who manage medical consumables. iData 55HC is economical and can be used in almost all medical scenes, helping medical workers to improve their working performance.

Comprehensive functions for medical scenarios

Functions such as scanning, photography, voice communication, 4G network, Wi-Fi, and Bluetooth are all available. It is competent for mobile nursing, consumables management, drug management, asset management, medical waste disposal, etc.

Dedicated engine to scan medical barcodes

Barcodes on wristbands, infusion bags, medicines, test tubes, consumables, and assets can be easily read, even if the barcodes are contaminated or damaged due to chemical erosion. For those workers who often use scanning for medication management, sample management, and consumable management, this device are extremely convenient for them.

Medical sterilizable design to ensure safety

The medical corrosion-resistant housing can withstand repeated scrubbing of various medical cleanings agents such as alcohol and peroxide water. With good sealing performance, there is no need to worry about external ingress during cleaning, ensuring the aseptic requirements of medical equipment.

Admission management

SPD material management

Drug traceability

Medical waste management

55HC Technical Specifications

System Configuration

Processor	Octa-core 2.0GHz high-performance processor
Operating System	Android 11.0 (GMS)
Memory (ROM + RAM)	64GB + 4GB (standard)
SIM	Single SIM
Expansion Slot	Micro SD card (up to 256 GB)
Display Screen	4.7-inch, resolution: 1280*720 pixels
Touch Screen	Industrial capacitive screen, support wet-hand operation/glove mode/multi-touch/gesture operation
Camera	13MP rear camera, support auto-focus/PDAF, compatible with 5MP front camera
Flashlight	800mA flashlight
Keypad	9 keypads: front key*4, side scan key *2, side power key *1, side custom key *2
Battery	3.85V lithium battery, with 4000mAh, detachable
Audio	Built-in microphone
Charging Method	Type-C charging and pin port charging, support fast charging of 18W
Reminder	Vibration reminder/LED reminder/Audio reminder
Vibrating Motor	Built-in vibrating motor
Sensors	G-sensor/Proximity sensor/Light sensor
Intercom Function (Optional)	Support one-button PTT calls

Structure Parameter

Dimension (L*W*D)	150mm*73.5mm*16mm (head thickness 24mm)
Weight	230g (including the battery)

Environmental Parameter

Working Temperature	-20℃ - 60℃ *Do not charge under low temperature conditions for the safety concerns
Storage Temperature	-40℃ - 70℃ (without the battery)
Humidity	0 - 95% (no moisture condensation)
Drop Specification	Multiple drops to marble floor from the height of 1.5m
Ingress Protection	IP67
ESD Protection	±15KV (air discharge), ±8KV (contact discharge) , surge protection design

Communication Interface

USB Interface	Type-C (with headset function) *1
OTG Interface	Support

Scanning Engine

Barcode Type	It can scan one-dimensional / two-dimensional barcodes
Scanning Accuracy	≧3.33mil
Scanning Angle	Pitch: ±60°； Skew: ±45°； Tilt: 360°
View Angle	Horizontal：44.3°，Vertical：28.4°，Diagonal：51°
Motion Error Tolerance	8m/s

Communication Transmission

WWAN (Network Frequency)	China & Eurasian version: 2G: B2/B3/B5/B8 3G: WCDMA: B1/B5/B8, CDMA&EVDO: BC0, TD-SCDMA: B34/B39 4G: FDD-LTE: B1/B3/B5/B7/B8/B20，TDD-LTE: B34/B38/B39/B40/B41 American version: 2G: B2/B3/B5 3G: B1/B2/B4/B5，CDMA&EVDO：BC0/BC1 (U.S.) 4G: B1/B2/B3/B4/B5/B7/B12/B17/B28A/B28B/B41
WWAN (Data Service)	GSM/GPRS/EDGE/CDMA/UMTS/HSPA/HSPA+/EVDO /WCDMA/TD-SCDMA/TDD-LTE/FDD-LTE
WLAN Function	Wi-Fi 802.11a/b/g/n/ac/d/e/h/i/j/k/r/v (2.4G + 5G dual-band Wi-Fi), support fast roaming and Wi-Fi 5G PA amplifier
Bluetooth	Bluetooth 5.0
GPS	GPS/AGPS/BDS/Galileo/GLONASS
PSAM card	Support

NFC (Optional)

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

Development Support

Programming Language	Java
Development API	iScan API (Scanning Development Kits), Device API (Device Management/Configuration Development Kits), Android Standard Interface
Development Tool	Eclipse/Android Studio

Accessories

Standard Accessories	USB cable*1, power adapter*1, hand strap*1, battery*1
Optional Accessories	Single charging cradle, 2-in-1 charging cradle, bottom charger, 4-slot charging cradle, 4-slot battery charging cradle, fanny pack, protective film, pistol grip, protective case

Each product comes with a pack of practical and cost-effective accessories

USB Cable

Type-C to USB cable, 1m in length, support charging and data transmission

CHA-USBC-GNR

Hand Strap

Wear on your wrist to carry the device, avoid accidental drops, and assure the safety of equipment
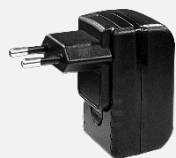
MNT-HS-GNR

Power Adapter

Input voltage 100-240V, output 5V2A. Support plug types of China/Europe/UK/US/Australia, match with CHA-USBC-GNR

ps: you may have one of the power adapters
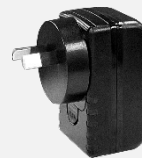
| CHA-PWAD-GNR-5V2A-CN | CHA-PWAD-GNR-5V2A-EU | CHA-PWAD-GNR-5V2A-UK | CHA-PWAD-GNR-5V2A-US | CHA-PWAD-GNR-5V2A-AU |

Battery

4000mAh, detachable design.

ps: every product comes with 1 unit, you can purchase extra unit

CHA-BTRY-55HC-4000MA

Improve management efficiency of devices and operational level of enterprises

Bottom Charger

Bottom charger for the main unit, support charging for 1 device. USB-A port, can connect with CHA-PWAD-GNR-5V2A-XX accessory

CHA-BTC-50

Battery

4000mAh, detachable design.

ps: every product comes with 1 unit, you can purchase extra unit

CHA-BTRY-55HC-4000MA

Single Charging Cradle

Support charging for 1 main unit. Support plug types of China/Europe/UK/US/Australia

ps: you may have one of the power adapters

CHA-CRD1S-50

4-slot Charging Cradle

Support maximum charging of 4 main units at the same time.
Support plug types of China/Europe/UK/US/Australia

ps: you may have one of the power adapters

CHA-CRD4S-55HC

4-slot Battery Charging Cradle

Support maximum charging of 4 batteries at the same time. Support plug types of China/Europe/UK/US/Australia

ps: you may have one of the power adapters

CHA-CRD4B-50

2-in-1 Charging Cradle

Support charging of 1 main unit and 1 battery ; Support plug types of China/Europe/UK/US/Australia

ps: you may have one of the power adapters

CHA-BTC21-50

Improve device portability and comfort for users, boost working efficiency

Pistol Grip

Pistol grip for main unit. Execute barcode scanning by pressing the grip trigger. Only those main units with pin port on the back are compatible

MNT-PG-50

Fanny Pack

Used to carry main units and other accessories. Can be tied to the waist or used as a crossbody bag
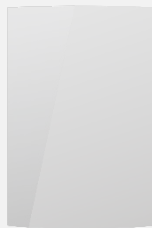
MNT-FP-GNR

Lower risks of malfunction during usage, extend lifespan of devices

Protective Film

Protective film for touchscreen. It can protect the screen from cracking or being scratched in case there's any accidental drops or impact during usage

PRT-PTF-50

Protective Case

Protective case for the main unit. It can prevent the malfunction of main unit in case there's any accidental drops or impact during usage

PRT-PTC-50

Official Website