



iData K8Pro Cold

Ultra-low Temperature Resistant and De-condensation Intelligent Terminal

Focus on improving worker performance in cold chain scenarios

iData K8Pro Cold is an ultra-low-temperature-resistant & de-condensation intelligent terminal that can meet all the requirements for long-time use in -30°C environment, and the active heating can quickly eliminate the internal and external condensation of the scanning glass and screen. There are several versions with different button layouts, which can be selected according to the specific application requirements. In the operations of scanning and entering information, it can meet the work requirements of order recording, picking, and inbound/outbound management of cold storage, and can greatly improve the efficiency of workers.

Meet the high standard of cold storage de-condensation and ultra-low temperature resistance standards

Workers in different areas of the high standard cold storage operation, equipment condensation will seriously affect the work. The active heating of scanning glass, screen and main unit, can quickly eliminate condensation, to ensure that quick scanning and recording after picking goods in cold storage. The dedicated -30 °C resistant cold-core batteries can meet the needs of low-temperature environment for long time use of cold storage.

Improve worker cold storage fulfillment capability and accuracy

It can recognize the name, origin, weight and other information in GS1-EAN-UCC barcode, and automatically complete the weight counting and totalization of inbound/outbound storage management and inventory work, and support the scanning engine up to 21.4 meters, so that when the forklift is working, it can scan the barcode of the distant shelves/goods, and quickly recognize the shelves and confirm the information of the goods to be picked.

Enhancing the Operational Input Experience for Worker Cold Storage Operations

Wearing heavy cold-proof gloves will bring inconvenience to the workers, the appropriate key size and keyboard layout will effectively reduce the rate of mis-touching when fulfilling the order, and the wide groove on the back and the texture design with the large strap will lock the device firmly in the hand, which is convenient for one-handed grip operation.



Fresh delivery



Cold storage management



Meat Deep processing



Vaccine and medicine traceability

K8Pro Cold Technical Specifications

System Configuration

Processor	Octa-core 2.45GHz high-performance processor
Operating System	Android 14.0
Memory (ROM+RAM)	64GB+4GB (standard)
SIM	Dual Nano SIM card
Expansion Slot	Micro SD card (up to 128GB)
Display Screen	4-inch, resolution: 800*480 IPS HD Retina screen
Touch Screen	Industrial capacitive screen, support wet-hand operation/glove mode/multi-touch/
Camera	13 megapixels of rear camera, support auto-focus/PDAF; 5 megapixels of front camera
Flashlight	800mA flashlight
Keypad	Version 1 has 34 keys: front key *29, side scan key *2, side volume \pm key *2, side customize key *1; Version 2 has 43 keys: Front Side Key*38, Side Scan Key*2, Side Volume \pm Key*2, Side Customize Key*1; Version 3 has 52 keys: Front Side Key*47, Side Scan Key*2, Side Volume \pm Key*2, Side Customize Key*1;
Battery	3.85V lithium battery, with 5250mAh, detachable, backup-battery Support; Execution standard: GB31241-2022
Audio	Built-in dual microphone (noise-canceling microphone)
Charging Method	Type-C charging and bottom charger charging, support 18W fast charging
Reminder	High-power speaker/3 sides scan LED reminder/Vibration reminder/charging LED reminder
Vibration Motor	Built-in vibration motor
Sensors	Gravity sensor (G-Sensor), proximity sensor, light sensor (standard), geomagnetic sensor, gyroscope, barometer (optional)
Intercom Function (Optional)	Support one-button PTT calls

Structure Parameter

Dimension (L*W*D)	205mm*76mm*31mm
Weight	458g (including the battery)

Environmental Parameter

Working Temperature	-30°C - 50°C *Do not charge under low temperature conditions
Storage Temperature	-40°C - 70°C
Humidity	0 - 95% (no moisture condensation)
Drop Specification	Multiple drops to concrete floor from the height of 1.5m (without protective case) Multiple drops to concrete floor from the height of 1.8m (with protective case)
Roller Drop Specification	1000 times of roller drops from a height of 0.5 meter
Ingress Protection	IP68
ESD Protection	\pm 15KV (air discharge), \pm 8KV (contact discharge)

Scanning Engine

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

Communication Transmission

WWAN (Network Frequency)	2G: B2/B3/B5/B8 3G: B1/B2/B4/B5/B6/B8/B19 4G: FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/B17/B19/B20/B28A/B28B/B66, TDD-LTE: B34/B38/B39/B40/B41
WWAN (Data Service)	GSM/GPRS/EDGE/UMTS/HSPA/HSPA+/WCDMA/TDD-LTE/FDD-LTE
WLAN Function	Wi-Fi 5(standard): Wi-Fi 802.11a/b/g/n/r/ac(dual-band Wi-Fi: 2.4G+5G), support fast roaming; Wi-Fi 6(optional): Wi-Fi 802.11a/b/g/n/r/ac/ax(dual-band Wi-Fi: 2.4G+5G), support fast roaming;
Bluetooth	Bluetooth 5.2, support BLE
GPS	GPS/AGPS/BDS/Galileo/GLONASS/QZSS

NFC (Standard)

Working Frequency	13.56 MHz
Reading Distance	Within 40 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

Communication Interface

USB Interface	Type-C (with headset function) *1
OTG Interface	Support
Charging Interface	8-pin charging port

Accessories

Standard Accessories	USB cable*1, hand strap *1, power adapter*1,device-back strap*1, battery*1
Optional Accessories	Power adapter(fast charging), 2-in-1 charging cradle, multifunctional 5-slot base, single charging cradle, bottom charger, 4-slot charging cradle, 4-slot battery charging cradle, pistol grip, protective case

The information of iData products and software service may be subject to change without notice. Please contact your iData sales representative for the latest details.



Official Website

WUXI IDATA TECHNOLOGY CO., LTD.

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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

Device-back Strap

Attach on the device back to help you hold the device easily and firmly, avoid accidental drops



MNT-BS-K8 Cold

Battery

5250mAh (optional), detachable design. Execution standard: GB31214-2022

ps: comes with 1 battery, extra unit need to purchase



CHA-BTRY-K8 Cold-5250MA

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

Improve management efficiency of devices and operational level of enterprises

Power Adapter (fast-charging)

Input voltage 100-240V, output 9V2A. Support plug types of China/Europe/UK/US/Australia, match with CHA-USBC-GNR

ps: choose one that fits your local standard



CHA-PWAD-GNR-9V2A-EU

Battery

5250mAh, detachable design.

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



CHA-BTRY-K8Cold-5250MA

2-in-1 Charging Cradle

Support maximum charging of 1 main unit+1 battery at the same time. Match with multifunctional 5-slot base. Support plug types of China/Europe/UK/US/Australia



CHA-BTC21-K8

Multifunctional 5-slot Base

Support maximum charging of 5 units of 2-in-1 charging cradle at the same time. Support plug types of China/Europe/UK/US/Australia



CHA-MCRD5S-GNR

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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-K8

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-K8

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-K8

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-K81.0/2.0

V2.0

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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-K8

Lower risks of malfunction during usage, extend lifespan of devices

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-K8

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