iData K8 Cold

Ultra-low temperature resistant and condensation-free smart terminal

Dedicated to improving cold-chain productivity

iData K8 Cold is an innovative smart terminal that survives ultra-low temperature -30℃ environments. With the help of condensation-free technology, K8 Cold will heat itself automatically to defog condensation generated both inside and outside the scan window and screen. The device also meet high-standard working requirements of order recording, sorting, inbound and outbound management in the cold storage environments, boosting workers' productivity dramatically.

Meet high-standard cold storage requirements

The condensation generated in both scan window and screen will badly affect work progress for those workers who need to travel between different areas in the high-standard cold storage. With the help of condensation-free technology, K8 Cold will heat itself automatically to assure quick scanning and recording after sorting process. The cold-core battery which can withstand -30℃, is able to work long hours in low-temperature cold storage environments.

Improve workers' fulfillment capacity and accuracy

K8 Cold is able to recognize the name, product origin, and weight of GS1-EAN·UCC barcodes so that it could complete inbound and outbound management automatically, and accumulate weight during inventory. Support up to 21.4m furthest scanning, the forklift can scan the barcodes of the shelves and goods in a long distance, thus it can recognize shelves and confirm goods waiting to be sorted rapidly.

Optimize the input experience for workers in cold storage

The workers would suffer a lot inconvenience while wearing thick and heavy anti-cold gloves. Now this situation has been improved by adopting reasonable keypad size and keyboard layout so that the mistouch rate could be eliminated during fulfillment. The wide groove and friction texture on the back, match with the device-back strap, can mount the device on your hand tightly so that you can operate the machine with one single hand.

Fresh food Delivery

Cold storage management

Meat deep processing

Vaccine/drugs traceability

K8 Cold Technical Specifications

System Configuration

Processor	Octa-core 2.0GHz high-performance processor
Operating System	Android 12.0 (GMS)
Memory (ROM+RAM)	64GB+4GB (standard)
SIM	Dual Nano SIM card
Expansion Slot	Micro SD card (up to 256GB)
Display Screen	4-inch, resolution: 800*480 IPS HD Retina screen
Touch Screen	Industrial capacitive screen, support wet-hand operation/glove mode/multi-touch/gesture operation
Camera	13 megapixels of rear camera, support auto-focus/PDAF; 5 megapixels of front camera
Flashlight	800mA flashlight
Keypad	34 keypads in total: front key*29, side scan key *2, side PTT key *1, side ±volume key *2
Battery	3.85V lithium battery, with 6700mAh, detachable, backup-battery support
Audio	Built-in dual microphone (noise-canceling microphone)
Charging Method	Type-C charging and bottom charger charging, support 9V/2A, 5V/3A fast charging
Reminder	High-power speaker/3 sides scan LED reminder/Vibration reminder/charging LED reminder
Vibration Motor	Built-in vibration motor
Sensors	G-sensor/ Proximity sensor/Light sensor
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℃ - 50℃ *Do not charge under low temperature conditions for the safety concerns
Storage Temperature	-40℃ - 70℃
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	±15KV (air discharge), ±8KV (contact discharge)

Communication Interface

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

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)	Chinese & Eurasian Version 2G：B2/B3/B5/B8 3G：WCDMA:B1/B5/B8，CDMA BC0，TD-SCDMA:B34/B39 4G： FDD-LTE:B1/B3/B5/B7/B8/B20，TDD-LTE:B34/B38/B39/B40/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/r/ac (2.4G + 5G dual-band Wi-Fi) support Wi-Fi 5G PA amplifier
Bluetooth	Bluetooth 5.0, support BLE
GPS	GPS/AGPS/Beidou/Galileo/GLONASS/QZSS

NFC (Standard)

Working Frequency	13.56 MHz
Reading Distance	Within 60 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 (More details in accessories guide)

Standard Accessories	USB cable*1, hand strap *1, power adapter*1,device-back strap*1, battery*1
Optional Accessories	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.

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

6700mAh, detachable design.

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

CHA-BTRY-K8 Cold-6700MA

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

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

Battery

6700mAh, detachable design.

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

CHA-BTRY-K8-6700MA

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-K8

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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Official Website

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