



# iData K1 Cold

Low temperature resistant and anti-condensation smart terminal

## Cost-effective cold-chain dedicated terminal

iData K1 Cold is able to withstand the low temperature impact of -25°C, and resist moderate condensation. It's suitable for workers who travel through areas which are not too humid in the cold storage. With the engine that scans ultra-long distance, the working efficiency of forklifts can be improved significantly.

### Vacuum-coated technology can resist condensation

The internal of scan window and screen has been vacuum-coated by anti-condensation film, so that the device can resist moderate condensation effectively. Thus the workers who work in the cold storage for a long time, or travel between refrigerated area and frozen area, can avoid working delay due to the condensation.

### Survive longtime working in low temperature area

The 6700mAh cold-chain dedicated battery can assure battery discharge capacity in -25°C environment for over 12 hours. The workers who need to work in refrigerated area or frozen area for long hours can scan confidently without worrying about the battery life.

### Improve forklift efficiency in goods locating and sorting

Support up to 21.4m furthest scanning, the forklift can scan the barcodes of the shelves and goods in a long distance. It can connect the goods with the corresponding shelves quickly in the inbound management, and confirm the goods information in the outbound sorting.



Inbound management  
in cold storage



Inventory management  
in cold storage



Drugs  
traceability



Blood bags  
management

# K1 Cold Technical Specifications

## System Configuration

Processor	Octa-core 2.0GHz high-performance processor
Operating System	Android 9.0
Memory (ROM+RAM)	64GB+4GB (standard)
SIM	Single SIM card
Expansion Slot	Micro SD card (up to 256GB)
Display Screen	4-inch, resolution: 800*400 pixels
Touch Screen	Industrial capacitive screen, support wet-hand operation/glove mode/multi-touch/gesture operation
Camera	13 megapixels of rear camera, support auto-focusing/PDAF
Flashlight	800mA flashlight
Keypad	26 keypads in total: front key*23, side scan key *2, side power key *1, (Interior transmission light industrial IMD keypad)
Keyboard Backlight	White
Battery	4.2V lithium battery, with 6700mAh, detachable, backup battery *Don't replace battery in cold environments in case the cold moisture will damage the device
Audio	Built-in microphone
Charging Method	Type-C charging and pin port charging, support 12W fast charging
Reminder	High-power speaker/Vibration reminder/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)	168mm *71mm *33mm
Weight	342g (including the battery)

## Environmental Parameter

Working Temperature	-25°C - 50°C *Do not charge under low temperature conditions for the safety concerns
Storage Temperature	-40°C - 70°C (without the battery)
Humidity	0 - 95% (no moisture condensation)
Drop Specification	Multiple drops to concrete floor from the height of 1.5m
Roller Drop Specification	1000 times of roller drops from a height of 0.5 meter
Ingress Protection	IP65
ESD Protection	±15KV (air discharge), ±8KV (contact discharge)

## 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: 900/1800 3G: WCDMA: B1/B8 4G: FDD-LTE: B1/B3/B7/B8/B20, TDD-LTE: B34/B38/B40 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/r/ac (2.4G + 5G dual-band Wi-Fi), support Wi-Fi 5G PA amplifier
Bluetooth	Bluetooth 5.0, support BLE
GPS	GPS

## 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 (More details in accessories guide)

Standard Accessories	USB cable*1, power adapter*1, hand strap*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 film, 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 COMPANY LTD.

Address: Floor 11, Building B1, Wuxi (Binhu) National Sensing Information Center, No.999 Gaolang East Road, Wuxi City, Jiangsu Province, P.R.C.

E-mail: sales@idataglobal.com

Website: www.idataglobal.com

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

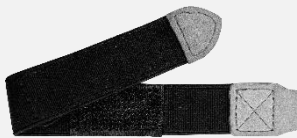
Wear on your wrist to carry the device, avoid accidental drops, and assure the safety of equipment



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-K1 Cold

## Battery

6700mAh, detachable design.

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



CHA-BTRY-K1 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-K1 Cold

### Battery

6700mAh, detachable design.

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



CHA-BTRY-K1 Cold-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-K1 Cold

### 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-K1 Cold

### 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-K1 Cold

## 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-K1 Cold

## 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-K1 Cold

### 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-K1 Cold

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 COMPANY LTD.

Address: Floor 11, Building B1, Wuxi (Binhu) National Sensing Information Center,  
No.999 Gaolang East Road, Wuxi City, Jiangsu Province, P.R.C.

E-mail: [sales@idataglobal.com](mailto:sales@idataglobal.com)

Website: [www.idataglobal.com](http://www.idataglobal.com)