

Warehouse tool management

RFID IOT APPLICATION

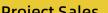
Product Catalogue

Application process

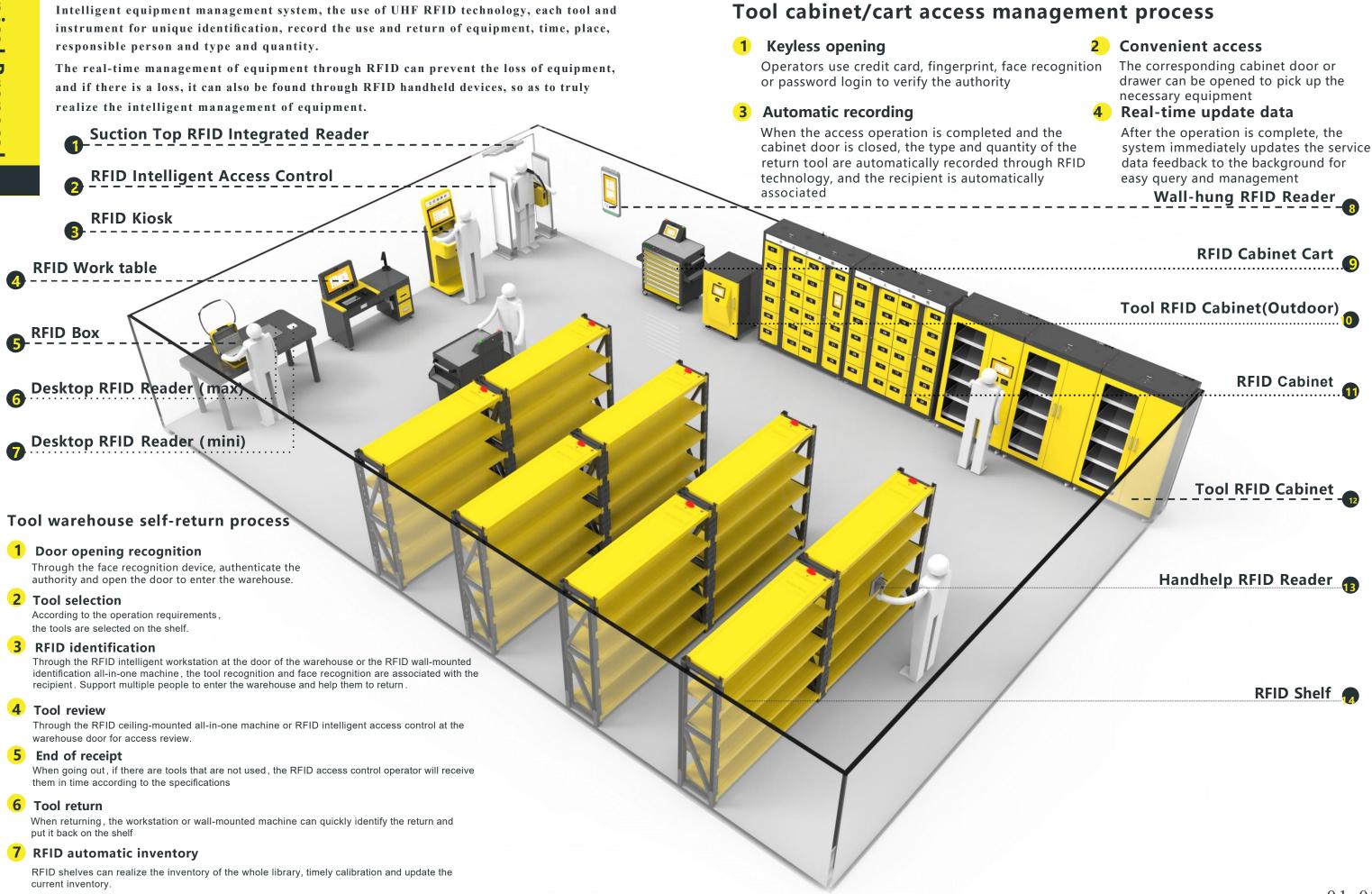












System Demo

ps: The specific language used depends on the application software locale and environment



1 Client software

Tool cabinet management system

The operator can realize the tool through the intelligent cabinet management take back operation, the cabinet can record the use and use of tools in real time return status and inspection reminder, etc.





2 B/S architecture

Tool ledger management system

Operators and managers are available on the equipped computers query and manage the tool through the ledger management system.





3 Linux / MySQL

System server

The system server aggregates all tools related to the storage site message.



Intelligent cabinet management system

Authority Management	Tool information maintenance	Personnel management	Check tool reminder	Unreturned management
Assignment of personnel rights, administrator rights, staff rights	Modify and bind tool information, including data import, input RFID tags, etc	Modify Basic personnel information Import personnel information with offline permission	Summary all validation tools include expired warnings and upcoming expiration alerts	Set the overdue time: overdue freeze the use of permission to query unreturned records
Exception	Access record	Inventory		Tool cabinet status
management	query	report query	Monitoring query	management

Scheme characteristics

1 Unmanned management

Self-service supermarket management, can realize the tool self-service return operation.

3 Rapid batch

RFID can quickly identify more than 30 tools in 1 second.

5 Real-time inventable

Through RFID, the whole cabinet/whole library can be realized with a keyboard point, real-time inventory summary.

7 Check can be reminded

For tools that need to be calibrated and inspected on a regular basis, do so by date reminder.

2 Intelligent recognition

RFID technology is used to assign a unique ID to each tool for management.

4 Clear responsibility

Through face recognition, fingerprint and other technologies to bind the recipient, easy to trace.

6 Overdue call the police

Receive tools overdue, real-time remind the administrator to timely trace processing.

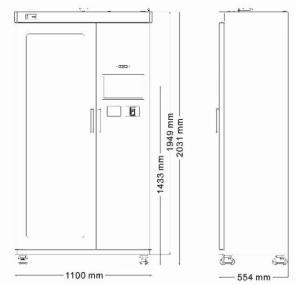
8 Statistically searchable

Return records, inventory details can be filtered according to conditions, query real: time records







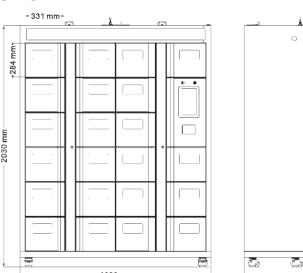


Peculiarity

- 1 RFID technology, unattended, 24 hours operation, RFID technology to work with ID identification, to achieve electronic management.
- Man-machine communication operation is simple, support face recognition, brush card permissions, interactive sense of strong, simple operation.
- 3 Automatic management of tool life cycle and inspection cycle.
- Tools out, storage automatic identification record, to the time auto matic reminder of non-return.

I Size 柜 01 07 13 19 02 80 14 03 09 15 20 16 10 04 21 17 11 05 22 18 12 06

CK-G2224



Peculiarity

- 1 Automatic matching, automatic recording, real-time upload.
- 2 Provide a variety of grid cabinets, which can be selected according to the actual situation, supporting the cascading of primary and secondary cabinets.
- 3 Can be located to the specific grid, easy to find items.
- 4 Support voice broadcast, simple operation.

Product Introduction

Intelligent tool cabinet, using UHF RFID technology, to achieve intelligent management of maintenance tools, instruments, safety tools, internal space can be Flexible adjustment and configuration, support mesh plate, pole, hook and other internal structures. Can be equipped with constant temperature dehumidifier, monitoring and other extended functions.

Product parameters

Inventory method	Display size	Operating system	Internal structure
UHF RFID	14'' touch display	Android/Windows	5 layers are standard
Communication	Power	Frequency	Size
Rj45	AC 220V	840MHz-960MHz	2031mm*1100mm* 554mm

Product Introduction

For intelligent control of items (tools/documents/books/clothing/personal items, etc.), self-service loan and return. Cabinet real-time inventory of items in the cabinet, record the information of the door opener, and upload in real time. Save manual inventory time and warehouse registration procedures, effectively improve control efficiency.

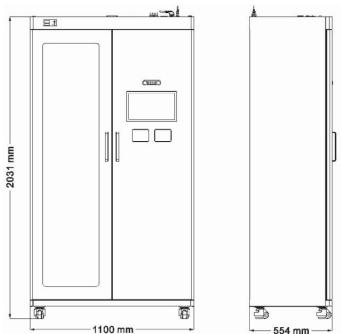
Inventory method	Display size	Operating system	Internal structure
UHF RFID	10.1'' touch display	Android/Windows	Main: 22 grids Deputy: 24 grids
Communication	Power	Frequency	Size
Rj45	AC 220V	840MHz-960MHz	2030mm*1600mm* 500mn







Size

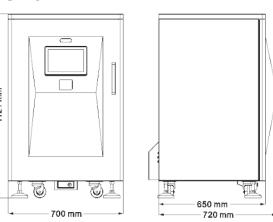


Peculiarity

- 1 RFID technology, unattended, 24 hours operation, RFID technology to work with ID identification, to achieve electronic management.
- 2 Man-machine communication operation is simple, support face recognition, brush card permissions, interactive sense of strong, simple operation.
- 3 Automatic management of tool life cycle and inspection cycle.
- 4 Tools out, storage automatic identification record, to the time auto matic reminder of non-return.

CK-GT3B

Size



Peculiarity

- Outdoor control tools, waterproof, rain, moisture.
- 2 Man-machine communication operationis simple, support face recognition, brush card permissions, interactive sense of strong, simple operation.
- 3 Automatic management of tool life cycle and inspection cycle.
- 4 Tools out, storage automatic identification record, to the time auto matic reminder of non-return.

Product Introduction

Based on RFID/ weighing automatic identification technology, it can realize the functions of real-time inventory, intelligent access, inspection reminder, real-time search, language broadcast and abnormal warning. Using RFID/ weighing intelligent identification technology, unattended, can run 24 hours, man-machine communication is simple, strong sense of interaction, stable performance.

Product parameters

_				
	Inventory method	Display size	Operating system	Internal structure
	UHF RFID/Weight	14'' touch display	Android/Windows	4 layers are standard
	Communication	Power	Frequency	Size
	Rj45	AC 220V	840MHz-960MHz	2031mm*1100mm* 554mm

Product Introduction

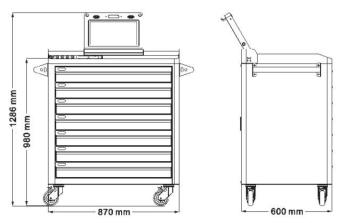
Mainly suitable for outdoor inventory of tools, and rapid inventory of tools, greatly improve the accuracy and efficiency of tool management, and realize the fine control of tools by enterprises.

Inventory method	Display size	Operating system	Internal structure
UHF RFID	10.1'' touch display	Android/Windows	2 layers are standard
Communication	Power	Frequency	Size
Rj45	AC 220V	840MHz-960MHz	1 121mm*700mm*650mm









Peculiarity

- 1 Automatic tool entry and exit record eliminating manual scanning and entry of tedious and possible mistakes.
- 2 Tool data logging, calibration cycle reminders for specific tools.
- When the tool is not returned in time, the tool car will issue a warning to quickly lock the responsibility of the relevant personnel.
- 4 With rechargeable battery, full charge can work for more than 18 hours, easy to move.
- 5 Equipped with a physical button to unlock, after logging in, you can open the corresponding drawer as needed, when returning, the tool is close to the sensing area, the corresponding storage layer of the tool can be automatically opened, making borrowing and returning more convenient and efficient.

CK-GTC7A

Product Introduction

The tool cart based on RFID technology can quickly take stock of tools, greatly improve the accuracy and efficiency of tool management, and realize the information management of tools and the fine control of the aviation industry FOD. Through efficient management, timely reminder of tool omissions to ensure the safety of use.

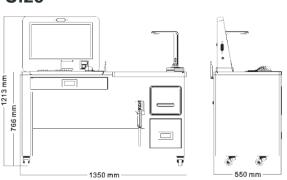
Product parameters

Inventory method	Display size	Operating system	Internal structure
UHF RFID	10.1'' touch display	Android/Windows	7 layers are standard
Communication	Power	Frequency	Size
Rj45、Wi Fi、4G	AC 220V	840MHz-960MHz	1286mm*870mm*600mm



CK-DP13

Size



Peculiarity

- 1 22 inch screen operation experience is strong, visual sense is rich.
- 2 Integrated design reduces equipment redundancy.
- 3 It has EPC tag matching and duplicate tag filtering functions.
- 4 Intensive reading mode.
- 5 Can work independently off the Internet.

Product Introduction

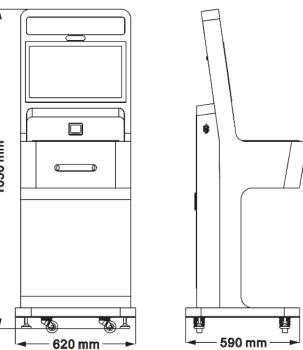
It is used to bind labels to item information entry, do label entry, item scanning, query, record and other functions of the comprehensive management terminal, so that one thing is one code, items can be traced, and the use of records.

Inventory method	Display size	Operating system	Right
UHF RFID	22'' touch display	Android/Windows	Swipe card, fingerprint, face recognition
Communication	Power	Frequency	Size
Rj45	AC 220V	840MHz-960MHz	1213mm*1350mm* 550mm





Size



Peculiarity

- 1 22 inch screen operation experience is strong, visual sense is rich.
- 2 Realize unmanned borrowing and returning, reduce the troublesome process of manual registration by the administrator, and improve the tool collection rate.
- **3** Equipped with a variety of identification rights, can accurately record the information of the borrower, the responsibility to the person, to ensure the integrity of the tool.
- 4 Tool lead also identification box, identification efficiency is high, can support more than 30 tools at a time.
- 5 Equipped with handheld RFID scanning gun to support rapid identification of large materials.

Product Introduction

CK-DP11

Tool return desk, can quickly batch identify returned tools. Equipped with 21.5-inch screen, easy to confirm interaction, equipped with face recognition and other functions, quickly confirm the identity of the recipient, help tool managers to achieve self-service tool access.

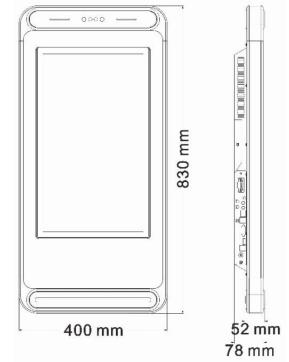
Product parameters

Inventory method	Display size	Operating system	Quantity received
UHF RFID	22'' touch display	Android/Windows	≤30 / pcs
Communication	Power	Frequency	Size
Rj45	AC 220V	840MHz-960MHz	1650mm*620mm* 590mm





Size



Peculiarity

- 1 22 inch screen operation experience is strong, visual sense is rich.
- 2 Realize self-unmanned loan and return, reduce the troublesome process of manual registration by the administrator, and improve the loan and return rate of tools.
- **3** Equipped with a variety of identification rights, can accurately remember.

CK-DP4

Product Introduction

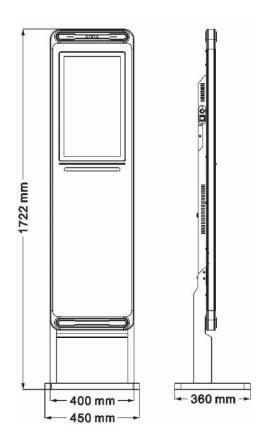
Provide convenient operation mode, equipped with RFID identification scanning area, so that workers can complete the tool borrowing and returning operation by themselves, with a graphical friendly operation circleThe system supports Chinese and English language switching, making the process more simplified and efficient.

Inventory method	Display size	Operating system	Alarm
UHF RFID	22'' touch display	Android/Windows	Sound light alarm
Communication	Power	Frequency	Size
Rj45	AC 220V	840MHz-960MHz	830mm*400mm*78mm





CK-DP4A



Peculiarity

- 1 With a near-field antenna, the identification efficiency is enhanced, and more than 50 items can be identified at a time.
- 2 Optimized design of special antenna, the peripheral crosstalk control is less than 80cm, which perfectly solves the problem of crosstalk and missed read.
- 3 22-inch HD touch screen is used for interaction, and data transmission can be carried out through network ports.
- Integrated design, fashion appearance, user-friendly operation interface and process design, easy to operate.

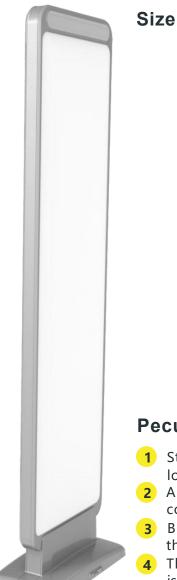
Product Introduction

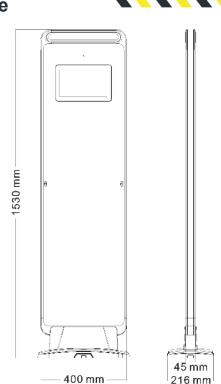
The equipment is mainly used for hospital consumables, tool warehouses, unmanned supermarkets or warehouses in unattended scenarios, etc., to carry out batch RFID reading, code scanning, settlement integrated equipment, when receiving items, quickly identify item information through self-identification workstations and update item information data.

Product parameters

Inventory method	Display size	Operating system	Quantity received
UHF RFID	22'' touch display	Android/Windows	≤50 / pcs
Communication	Power	Frequency	Size
Rj45	AC 220V	840MHz-960MHz	1772mm*400mm*360mm







RFID Gate

Peculiarity

- 1 Strong multi-label reading ability, very low miss rate and misread rate.
- 2 Antenna specially designed, access control coverage area accurate, no blind spots.
- 3 Built-in alarm light and buzzer to alert the operator.
- The access control placement distance is wider, up to 2.4m.
- 5 The display can be configured to display the RFID information and quantity in real time, and the number of people can be counted.

Product Introduction

CK-T4

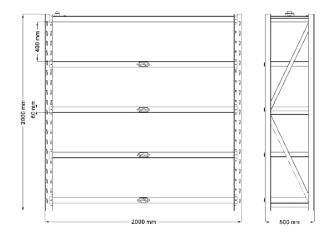
Appearance is simple and atmospheric, stable quality, reliable performance, support multi-label reading, infrared trigger reading mode, support the number of people in and out of statistics, integrated sound and light alarm as one, can use online/offline EAS alarm two modes, the device supports network port communication, and can expand Wi Fi, 4G and other communication methods.

Inventory method	Display size	Operating system	Read distance
UHF RFID	10.1'' touch display	Android/Windows	0-240cm
Communication	Power	Frequency	Size
Rj45	AC 220V	840MHz-960MHz	1530mm*425mm*216mm



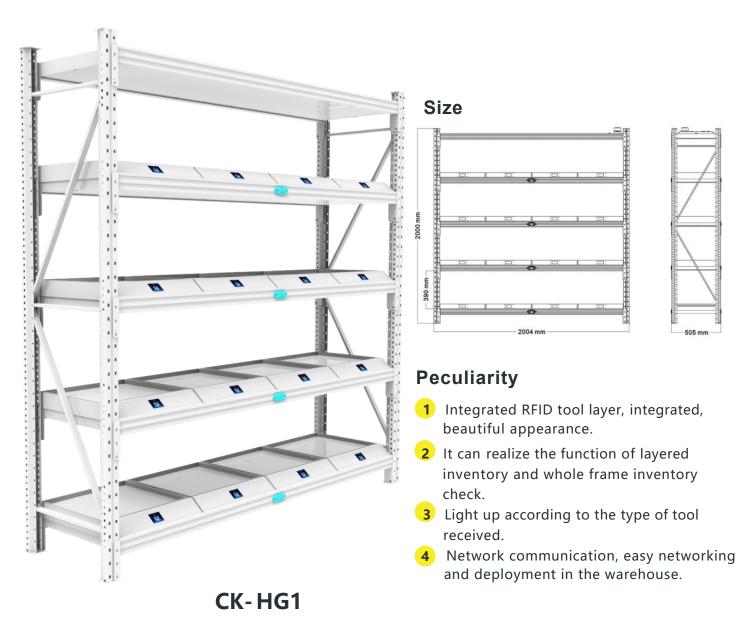






Peculiarity

- 1 Integrated RFID tool layer, integrated, beautiful appearance.
- 2 It can realize the function of layered inventory and whole frame inventory
- 3 Light up according to the type of tool received.
- 4 Network communication, easy networking and deployment in the warehouse.



Product Introduction

The intelligent shelf based on RFID technology is mainly used for the quick inventory of maintenance tools and instruments in the warehouse. Realize the data check and update of the whole library.

RFID smart shelves can also be combined with wall-mounted all-in-one machines to achieve self-service operation of single-shift group receipt, easy to use.

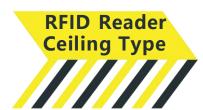
Product parameters

Inventory method	Surface Treatment	Internal structure	Quantity received
UHF RFID	Powder and paint	4 layers are standard	0-200 pcs/layers
Communication	Power	Frequency	Size
Rj45	AC 220V	840MHz-960MHz	2000mm*2000mm* 500mm

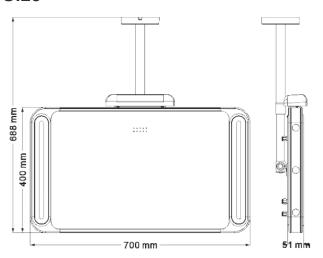
Product Introduction

The intelligent shelf based on RFID/ weighing technology is mainly used for the quick inventory of maintenance tools and instruments in the warehouse. Realize the data check and update of the whole library. RFID intelligent weighing shelf can also be combined with a wall-mounted all-in-one machine to achieve self-service operation of single shift group receiving, easy to use.

Inventory method	Surface Treatment	Internal structure	Quantity received
UHF RFID/Weight	Powder and paint	4 layers are standard	0-200 pcs/layers
Communication	Power	Frequency	Size







Peculiarity

- 1 The group reading ability is strong, the reading distance is far, and the reading speed is fast.
- 2 Integrated audible and visual alarm for applications requiring alarm.
- 3 High appearance level, small size, integrated reader and antenna and one.
- 4 Automatic objects in and out of the records management, save manual scanning and entry work tedious and error.

CK-H10

Product Introduction

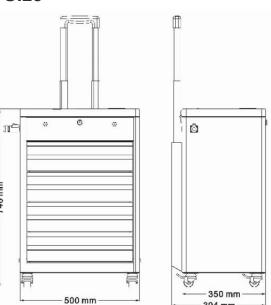
Used for warehouse entry and exit management, placed on the top of the warehouse entry and exit, used to identify items in and out, using narrow beam antenna design, reasonable control of reading range, to avoid misreading. Integrated sound and light alarm, real time can be illegal in and out of the label alarm prompt.

Product parameters

Inventory method	Read distance	Recognition speed	Installation mode
UHF RFID	0-10m	> 500t/S	Bracket fixation
Communication	Power	Frequency	Size







RFID Toolbox

Peculiarity

- 1 The tools in the toolbox can be placed at will, and the tools in the box can be locked with one key.
- 2 Departure automatic inventory, the operator carries the toolbox to leave the real-time automatic detection of the number of tools, intelligent reminder.
- 3 Real-time alarm, once a tool is missed in the scene, the toolbox detects the alarm reminder.
- 4 Data transmission through the network port or 4G, can be set up toolbox, according to the need to adjust the function.

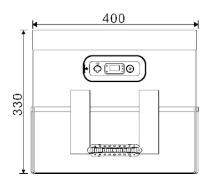
Product Introduction

Based on RFID automatic identification technology, the functions of leaving inventory and omission reminder of maintenance tools can be realized to avoid safety accidents caused by the omission of maintenance tools in field operations.

Inventory method	Display size	Operating system	Capacity of products
UHF RFID	10.1" touch display	Android/Windows	80pcs
Communication	Power	Frequency	Size
	1 OWC1	rrequericy	3126









Peculiarity

- Support RFID function, automatic identification, 2 seconds inventory is completed.
- 2 Multifunctional storage tool, built-in Velcro storage bag, up to 40pcs of storage tools, also can be customized storage bag.
- 3 When the toolkit moves, if the detection tool is missing, the toolkit will automatically alarm and remind.
- 4 Ultra-low power standby, ultra-long battery life, battery life can reach more than 7 days,
- 5 Connect the mobile APP through Bluetooth, and configure the parameters of the toolkit through the mobile terminal.
- 6 Outdoor waterproof material, wear-resistant, anti - manufacturing, the whole package is light.



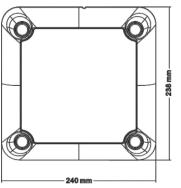
CK-B1

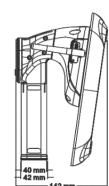




CK-B9

Size





Peculiarity

- 1 Excellent performance Based on the Impini R2000 chip development, support a variety of protocols: ISO 18000-6C/EPC C1G2, ISO 18000-6B, GB/T29768-2013, Military logo (extensible support).
- 2 6000 mAh battery, working time is more than 12 hours.

Product Introduction

Designed for aviation aircraft maintenance, fire protection, nuclear power, railway rail transit and industrial production and other applications. The tool installs the unique RFID tag, through RFID automatic identification equipment, automatic counting, recording and searching tools, effectively prevent and eliminate aviation, power and industrial enterprise accidents.

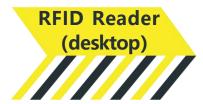
Product parameters

Inventory method	Display size	Operating system	Quantity received
UHF RFID	0.96 'OLED	RTOS	≥40 pcs
Communication	Power	Frequency	Size
Bluetooth 5.0	DC 5V	840MHz-960MHz	330mm*400mm*200mm

Product Introduction

Used for remote tool lookup, inventory and other scenarios. It can read more than 10 meters, and transmit and display data through Bluetooth and mobile phone. It is convenient to find the lost tool in a directional way, find it in time, and avoid the occurrence of safety accidents.

Inventory method	Worktime	Read distance	Class of protection
UHF RFID	>1 2h	≥10m	lp65
Communication	Power	Frequency	Size
Wi Fi	6000mAh	840MHz-960MHz	240mm*238mm*142mm

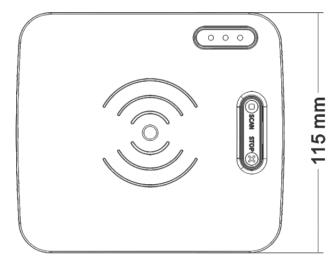


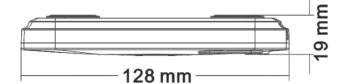


18 mm



Size





Peculiarity

- 1 Compact and portable, convenient to use in practical work.
- 2 Stable writing, the maximum output of the port is 33dBm, the success rate of writing is high, and the performance of the device is stable.
- 3 Using near-field antennas, the effective read range is controlled within 30cm and the write range is controlled within 10cm.
- 4 Convenient development, provide C# and Java development information.

CK-D1L

Product Introduction

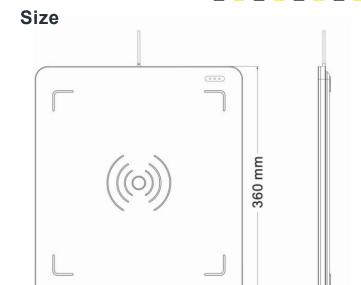
The desktop tag distributor is used to initialize the binding of RFID tool tags and tools. It has the function of reading and writing. It can switch to the cursor output mode to facilitate the sorting of EXCEL tool tables and the input of RFID tag information. TYPE-C communication.

Product parameters

Inventory method	Read distance	Color	Write Sound
UHF RFID	< 30cm	White 、 silver	Bee
Communication	Power	Frequency	Size
Type-C	USB	840MHz-960MHz	115mm*128mm*19mm



CK-D3L



Peculiarity

1 Advanced tag collision processing algorithm, high reading rate.

320 mm

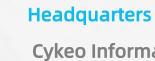
- **2** Fully supports electronic tags conforming to EPC CLASS1 G2, ISO18000-6C/6B standards.
- 3 Stable writing, the maximum output of the port is 33Bm, the success rate of writing is high, and the performance of the device is stable.
- 4 Support tag intensive reading and writing, multi-tag identification, support tag data filtering, support RSSI: perceived signal strength.
- 5 Using near-field antennas, the effective read range is controlled within 40cm and the write range is controlled within 10cm.

Product Introduction

It can be used as a tag binding platform or batch reading device to manage RFID tools and instruments. It has strong batch reading ability, supports intensive reading, and has fast recognition speed. It can identify more than 100 tags within 1 second.

Inventory method	Recognition speed	Read module	Read distance
UHF RFID	≥40pcs	Dense read	0mm-400mm
Communication	Dawar	F#2 #11 2 11 2 11	C:
Communication	Power	Frequency	Size





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