

Model: CK-BA7

UHF RFID Portable Reader



1. product presentation

CK-BA7 is an ultra-high frequency portable reader and writer that uses the phone's TYPE-C for power and communication. It is compact and easy to carry, allowing you to perform read/write operations via a mobile APP. The device features a built-in magnetic design, enabling it to be attached to the back of your phone for reading. With a read/write range of 30 cm, it offers high sensitivity and quick response, making it highly cost-effective for various applications such as anti-counterfeiting identification, picking, inspection, and workstation counting.

2. Product features

- 2.1 Small and easy to use: 37g ultra-light design, easy to carry, can be used by connecting to the mobile phone.
- 2.2 Mobile phone control: equipped with mobile APP to realize the rapid identification of RFID tags and items.
- 2.3 Range control: the near field antenna design is adopted, and the effective reading range is controlled within 30cm, and the writing range is controlled within 10cm.
- 2.4 Easy to develop: provides C# and Java development materials
- 2.5 Communication support: Type-C communication is provided.

3. Specifications and parameters ●

Main specification parameters	
product model	CK-BA7
performance parameter	
frequency range	FCC 902-928MHz, GB 920 -925MHz
Open mouth agreement	ISO 18000-6C/6B,EPC C1G2, GB/T 29768-2013 (optional), GJB 7377.1-2011/72018A Various temperature and humidity label protocols
Built-in antenna polarization mode	circular polarization
output power	1~18dBm
Read the distance	0 ~ 30cm
Write distance	0 ~ 10cm
Label recognition speed	100 pages <3 seconds
power dissipation	1.2W @ +18dBm
Physical parameters	
External dimensions (length * width * height)	62.5mm*48mm*8mm
communication interface	USB Type-C
weight	37g
operational environment	
working temperature	-20°C ~ +70°C
storage temperature	-40°C ~ +85°C
Working humidity	No condensation at 10%~95% RH

4. direction for use

4.1 way to install



USB Type-C short interface connection

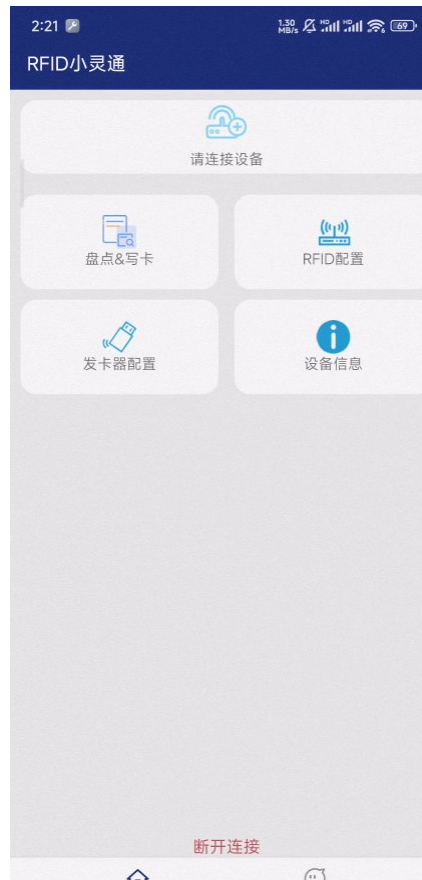


Magnetic back clip installation

4.2 Software operation instructions

4.2.1 Connect the device

USB, plug in the RFID device, click the "Please connect the device" button to complete the connection.



4.2.2 Inventory and card writing

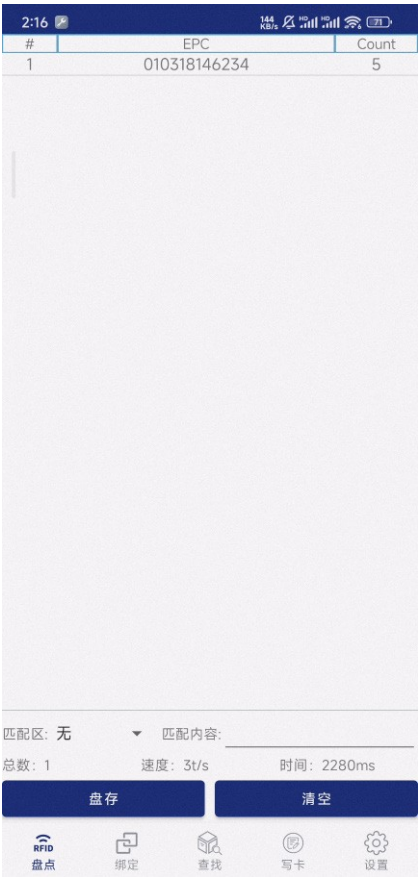
Inventory

The card can be read according to the configuration of the set menu, and the default is only EPC.

Clear: Clear the current tag data list

Matching area: Select the corresponding matching area, fill in the matching content, and then you can read the card

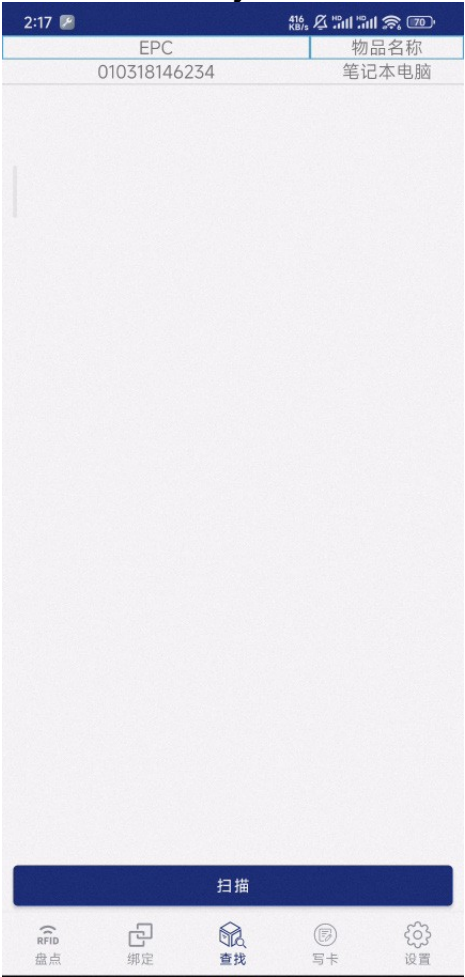
Binding



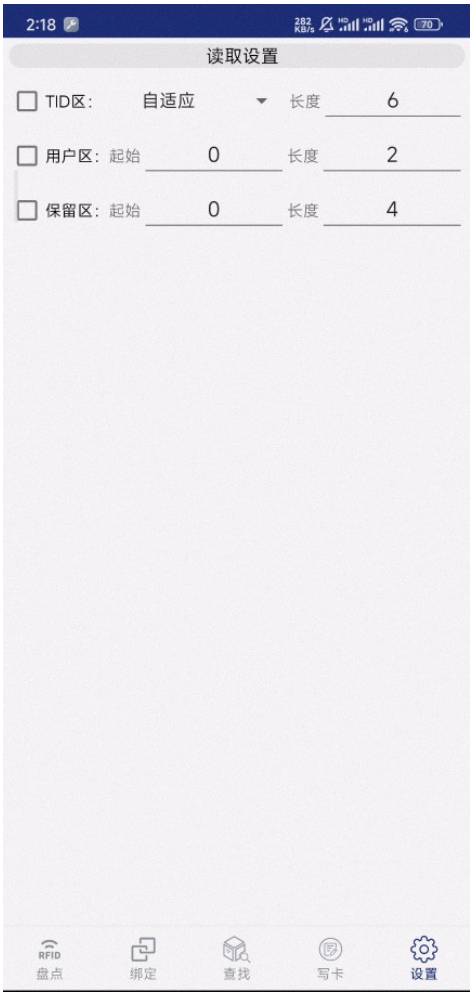
Binding: After the inventory is completed, select a label and fill in the information of the item to be bound, and the binding can be completed
Clear binding: Clear all tag binding information that has been stored

Search

Scan: Click scan to start inventory of labels and query the bound information



Card writing



Read Settings: Configure the area to be read for inventory operations

4.2.3 Card issuer configuration

USB keyboard configuration: configure cursor output function.

Automatic read configuration on power-on: You can configure the EPC that is only read on power-on, EPC+TID, and turn off automatic read on power-on



4.2.4. Equipment information
Query the current device version information



4.2.5. Mine



Tag protocol: Different tag protocols can be supported by different firmware versions. ISO 18000-6C and ISO 18000-6B are supported by default
