

PM3 MAX

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1.Product feature

1.1 Comes with two fully functional USB ports. Both the TYPE-C and MICRO ports can be connected to a computer.

1.2 A brand new chip model, although it cannot flash RDv4 firmware, it can flash Iceman firmware with consistent functionality.

1.3 FPC connector with 9-pin, supports modification of Bluetooth module, extended USB interface, SAM card module, etc.

1.4 512KB memory, all functions are retained without deletion.

1.5 Reserve low-frequency coil solder joints for easy modification by users.

1.6 There are 4 solder joints on the back, which can switch between card reading mode and sniffing mode. When disconnected, it is card reading mode, stable card reading, and moderate sniffing. When short circuiting (using materials such as soldering iron, wire, conductive tape, etc.), switching the sniffing mode greatly improves the sniffing ability, and the distance is even slightly farther than RDV4.

1.7 The low-frequency antenna is processed with PCB hollowing out and supports multiple installation methods, making it an added advantage in some low-frequency sniffing situations. For example, hitag2 (PCF9736...)

1.8 Offline sniffing mode, can sniff without an app. Just power up the product and press and hold the three second button to enter the sniffing mode (green light on). At this time, card sniffing can be performed. After sniffing, the log will be stored inside the chip and can be extracted from the computer GUI. It also supports offline continuous sniffing, and the log will be added on its own. Theoretically, it can support up to 50 sniffing attempts.

1.9 With the offline password storage feature, frequently used passwords can be saved inside the chip via the GUI. Even after changing computers, these passwords can still be retrieved through the GUI. This offers a convenient way to store passwords without the need for an internet connection. In theory, up to 1000+ passwords can be stored offline.

1.10 Equipped with free computer GUI software and English APP. The APP supports both OTG and Bluetooth connection. When using the computer GUI, it is necessary to flash the PC firmware, When using the APP, it is necessary to flash the APP firmware

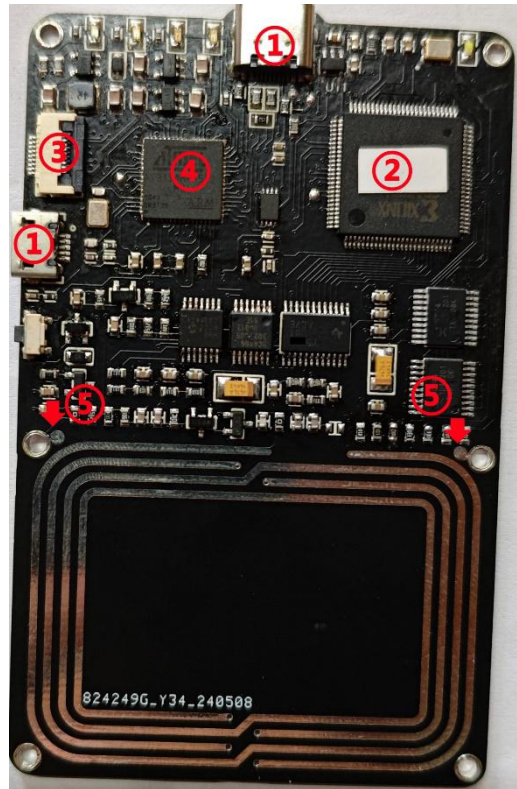
1.11 Continuously updated, with features consistent with the official Iceman. If you need to flash other firmware, please add the parameter=PM3ICOPYX during compilation

1.12 <https://github.com/rfidreadermaker/proxmark3-max>

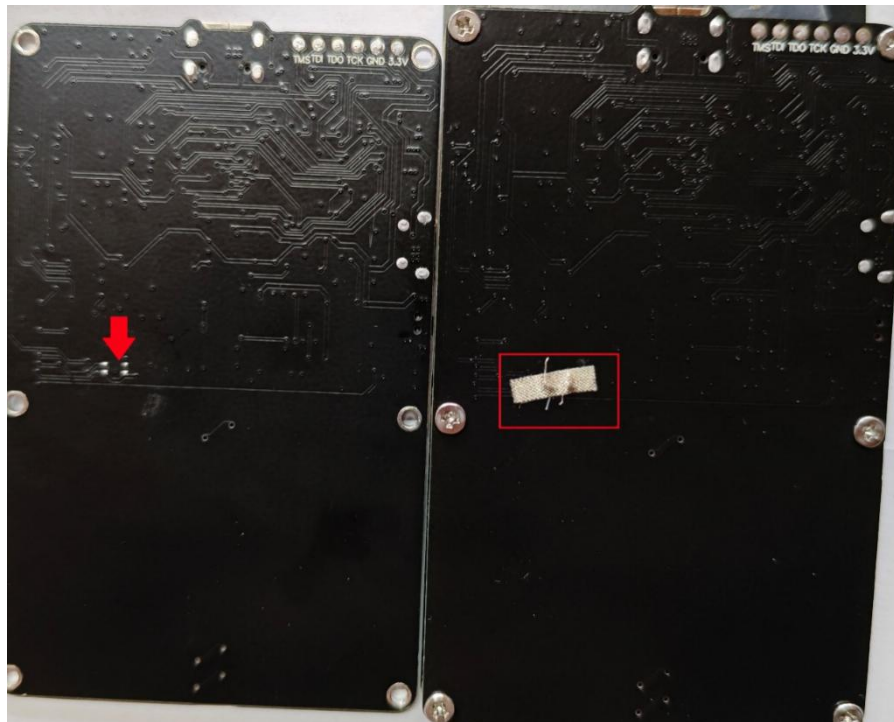
1.13 <https://www.youtube.com/watch?v=X790z43Bdg0>

2.Product images

2.1Front view



2.2 Back view



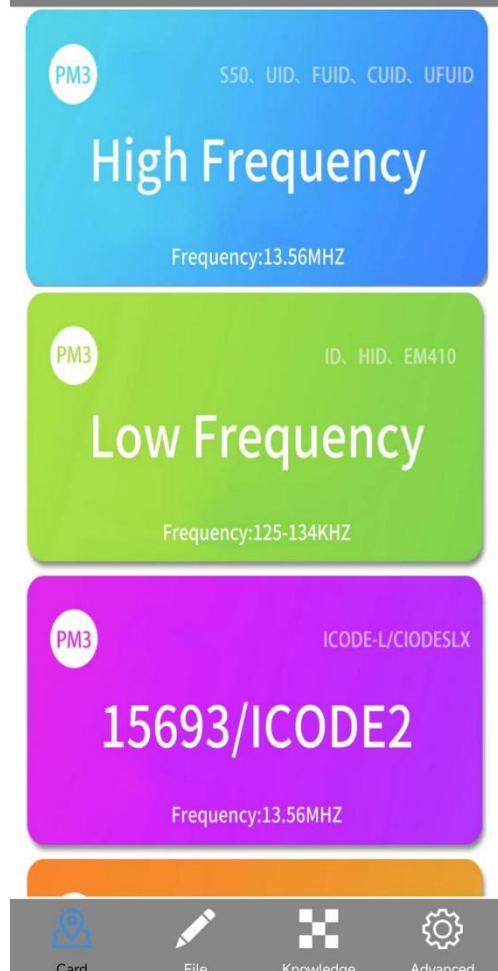
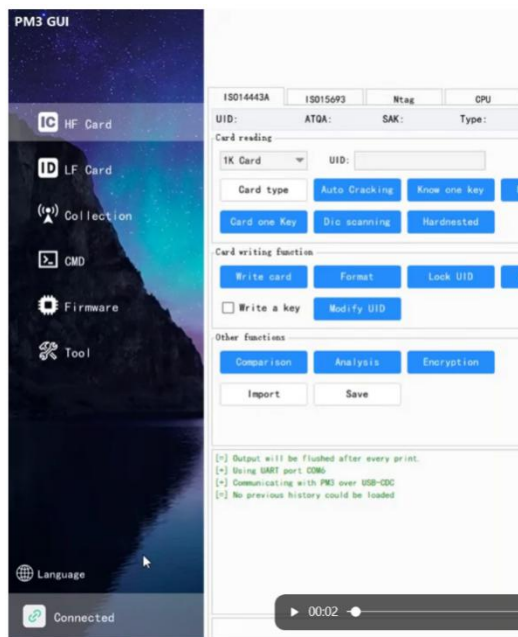
2.3 Low frequency antenna hollowing treatment and various installation



methods



2.4 Free computer GUI and APP



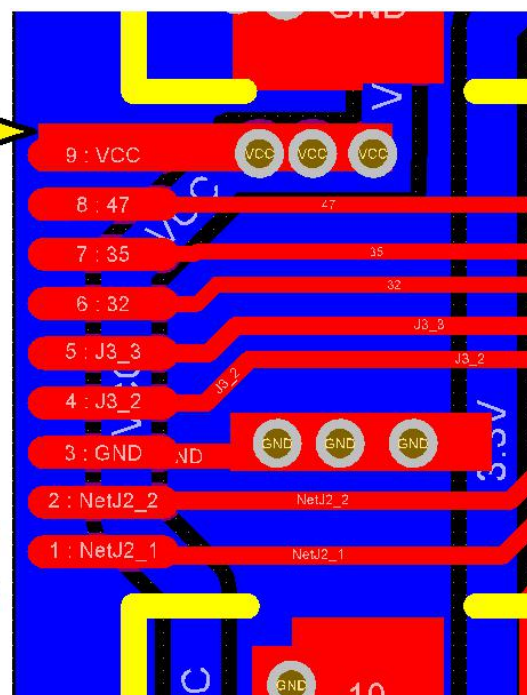


2.5 Bluetooth module modification



2.6 FPC connector -9PIN

- 9.VCC
- 8.ARM 47(for sim card)
- 7.ARM 35(for sim card)
- 6.ARM 32(for sim card)
- 5.USB D+
- 4.USB D-
- 3.GND
- 2.ARM 14 TX (for Bluetooth)
- 1.ARM 11 RX (for Bluetooth)



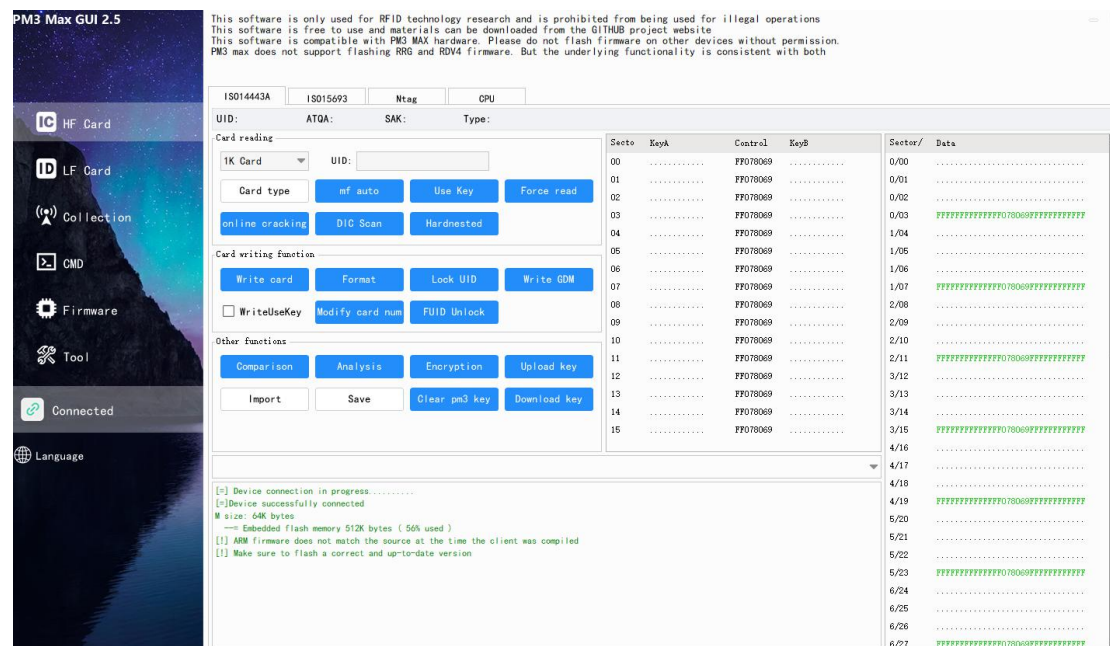
3.GUI introduce

3.1 Download link :

<https://github.com/rfidreadermaker/proxmark3-max>

The GUI is completely non-toxic, but the operations of saving and importing data may be considered risky by Microsoft. Therefore, there may be risk warnings when downloading software, but there is no need to worry. Just add trust to the software. If you are really worried, you can also use the underlying code of the RRG team to link devices.

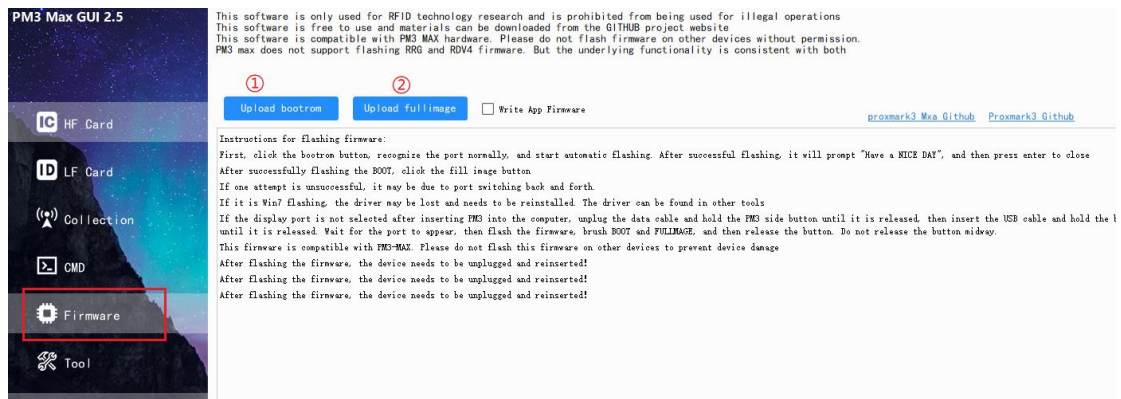
3.2 connet PM3



[!] ARM firmware does not match the source at the time the client was compiled

[!] Make sure to flash a correct and up-to-date version

If this prompt appears, it means that the firmware does not match, and we need to flash the corresponding firmware before we can use it.



After you finish flashing the firmware, you must unplug the device and reinsert it.

The following video will quickly help you understand how to use the software

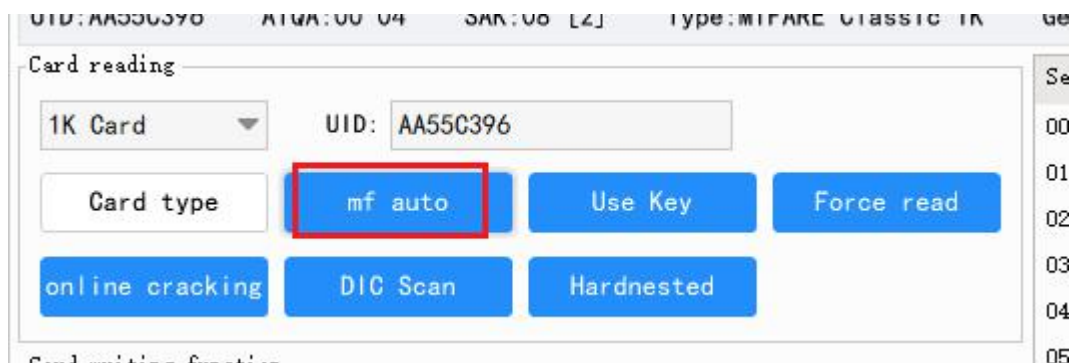
<https://www.youtube.com/watch?v=YrIBbloSKWg>

If your screen resolution is not large enough, causing the software to display incompletely, you can use the following parameters to scale the software.

Open the 'config. ini' file in the 'Config' folder and add the following code width=1366 height=768 like this

```
[config]
language=45 00 6E 00 67 00 6C 00 69 00 73 00 68 00 00 00
RandomKey=0
Encryption=123456789012
width=1366
height=768
[CPU]
size=32
```

3.3 Introduction to some buttons



3.3.1 The Mf auto button,

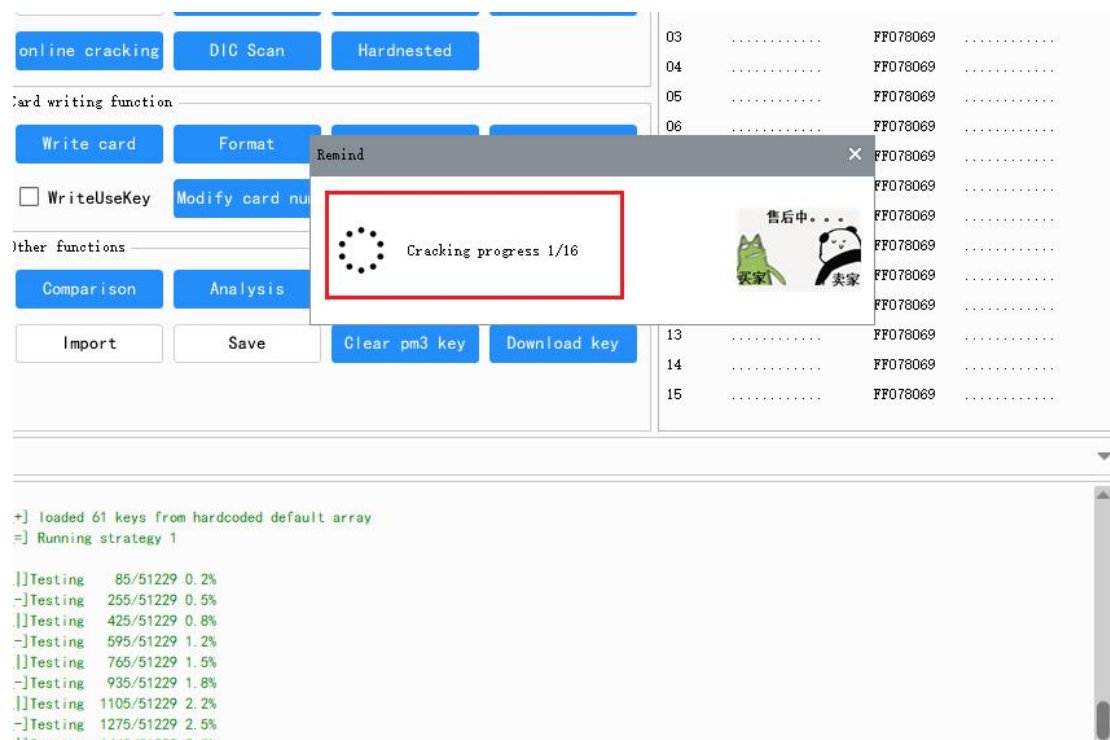
when clicked with the left mouse button, is equivalent to inputting the command 'hf mf auto'.

If you encounter a card that cannot be cracked by left clicking, such as F08S, right-click on "MF AUTO" to enter the F08S card cracking process. The whole process takes a long time, please be patient. If the cracking fails, you can choose to eliminate electromagnetic interference or change the position where the card is placed.

You can use the F08S CHK in the dropdown list of the command bar to check if the card is F08S. You can add more shortcut commands in the command.txt file.

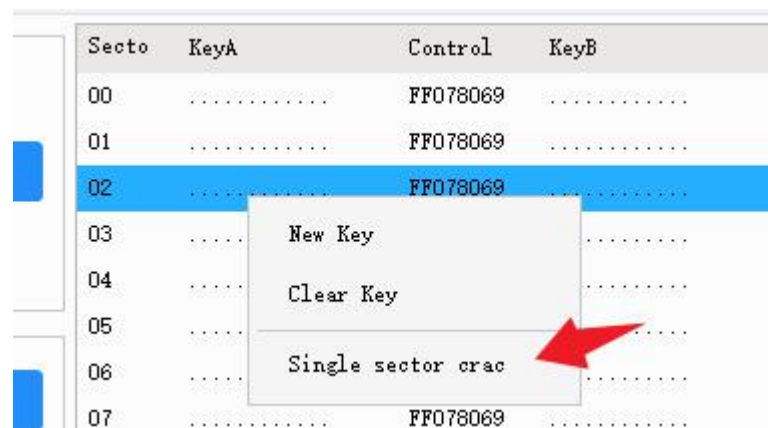


The following interface shows the progress prompt when cracking F08S

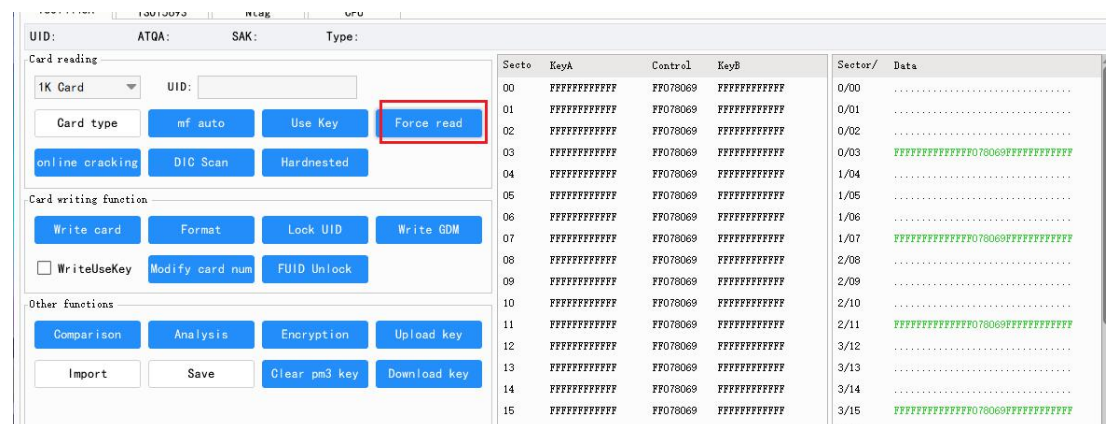


If you need to crack a sector separately, you can left click on the corresponding password area, then right-click on the password area and click this button to crack a sector separately.

This operation will only crack the password of the specified sector



3.3.2force read



When left clicking with the mouse, the software will use the password in the password area to read this card. You can import the password manually by filling in or dragging the data file.

When right clicking with the mouse, the software will exploit the backdoor vulnerability of F08S to force the reading of card data and mark the encrypted sector password in red. Note: The right mouse button is only applicable to F08S cards. If partial sector reading fails, you can right-click on the data area and read a specific sector or block separately.

Sector/	Data
0/00	31115365160804000369F5FD23B8B590
0/01	00000000000000000000000000000000
0/02	00000000000000000000000000000000
0/03	FFFFFFFFFFFFF078069FFFFFFFFFFFF
1/04	00000000000000000000000000000000
1/05	00000000000000000000000000000000
1/06	00000000000000000000000000000000
1/07	FFFFFFFF
2/08	0000000000
2/09	0000000000
2/10	0000000000
2/11	FFFFFFFF
3/12	0000000000
3/13	0000000000
3/14	0000000000
3/15	FFFFFFFF
4/16	0000000000
4/17	0000000000
4/18	00000000000000000000000000000000
4/19	FFFFFFFFFFFFF078069FFFFFFFFFFFF
5/20	00000000000000000000000000000000

New Data
Wipe data
Read sectors
Read block
Force sector readi
Force block readin
Write sector
Write block

3.3.3 unlock fuid

For locked FUIDs, you can use this button to unlock them. Note that FUIDs have two different chips, and some chips cannot be unlocked

☐ WriteUseKey

Other functions

08	.....	FF078069	.....
09	.....	FF078069	.....
10	.....	FF078069	.....
11	.....	FF078069	.....
12	.....	FF078069	.....
13	.....	FF078069	.....
14	.....	FF078069	.....
15	.....	FF078069	.....

```

[+] MIFARE Classic 1K
[=] proprietary non iso14443-4 card found. RATS not supported
[=]

[+] Magic capabilities... Gen 2 / CUID
[+] Magic capabilities... Gen 4 GDM / USCUID ( Gen4 Magic Wakeup )
[+] Magic capabilities... Write Once / FUID
[+] Prng detection..... weak

[?] Hint: use `hf mf` commands

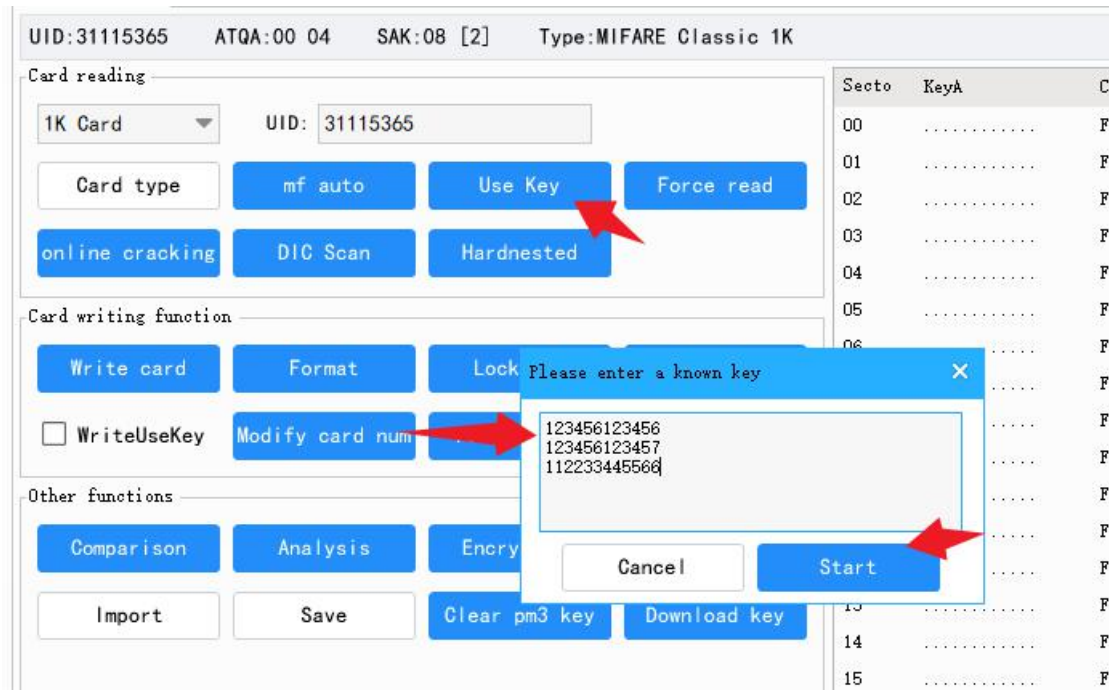
[=] Unlock Done
  
```

For cards that cannot be unlocked, there will be the following prompt

```
[+] Prng detection..... weak
[=] The card cannot be unlocked. If there is interference, it can be unlocked by changing the card placement position
```

3.3.4 USE key

Left click on 'USE KEY' and enter a known password to crack the card. Multiple passwords can be entered using the enter key



3.3.5 Modify card num

First, enter the card to be modified, which must be four bytes long. Then click the button to modify the card number of UID \ UID \ FUID \ UFUID card

UID: 31115365 ATQA: 00 04 SAK: 00 [2] Type: MIFARE Classic 1K

Card reading

1K Card UID: 31115365

Card type mf auto Use Key Force read

online cracking DIC Scan Hardnested

Card writing function

Write card Format Lock UID Write GDM

☐ WriteUseKey Modify card num FUID Unlock

Other functions

Comparison Analysis Encryption Upload key

Import Save Clear pm3 key Download key

Secto	KeyA
00
01
02
03
04
05
06
07
08
09
10
11
12
13
14
15

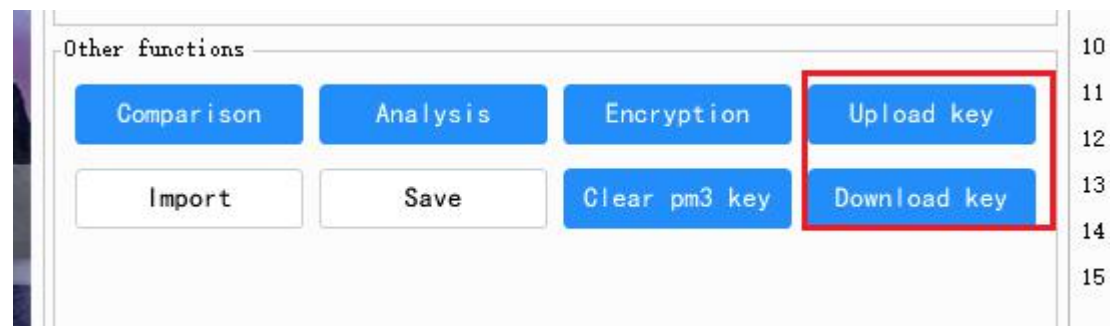
3.3.6 LOCK uid

If you have used UFUID, you can lock it by clicking this button after modifying the card number



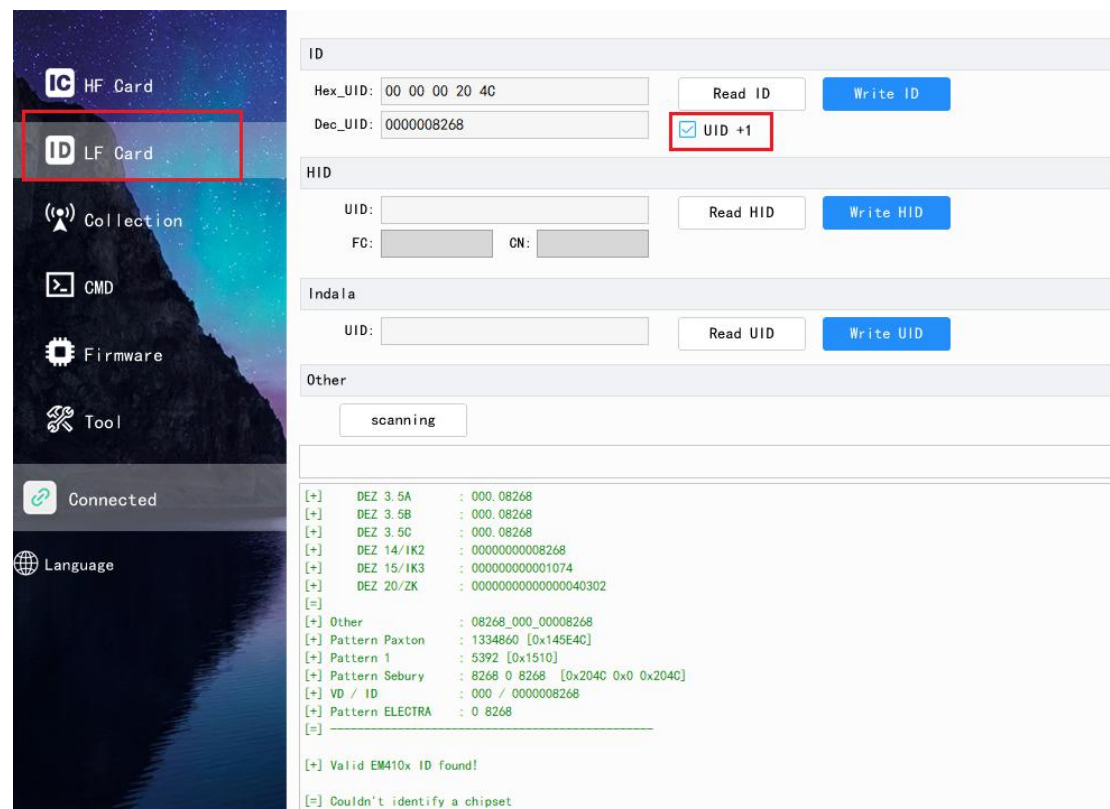
3.3.7 Upload and download keys

When you click the UPLOAD KEY button, the software will back up all passwords in the user folder and store them in the FLASH chip. When you need to download, click the Download key button, and the downloaded password will be saved in the key.dic file in the user folder. You can click the DIC scan button to scan the dictionary



3.3.8 LF CARD

For the EM4100 card, the software supports cloning the EM4100 using 5200, 5577, 8211, 8310, and 8268. If you select UID+1, the card number will automatically +1 each time it is written



3.3.9 SNIFFING

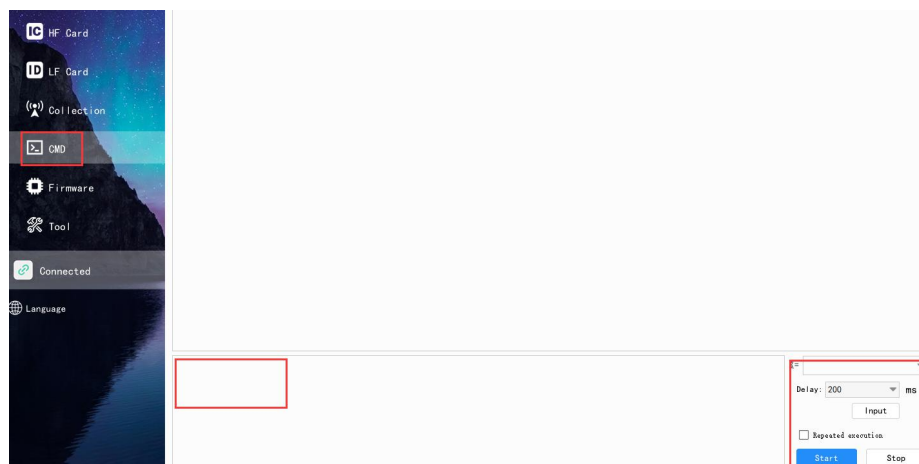
In addition to online sniffing, the firmware of the device supports offline sniffing of 14A cards. After sniffing, sniffing records can be extracted. If you need to clear the records, you can click the clear button. Unplug the device and power it on. Press and hold the side button for three seconds. When the four different colored lights start flashing, release the button. At this time, the green light will remain on, and offline sniffing can begin. After sniffing is complete, press

the side button once, the green light will flash three times, disconnect the power, go back to the computer software, reconnect the device, and extract sniffing records.



3.4 CMD Instructions and macros

You can set different settings parameters to let the software loop through certain instructions.



3.5 NTAG CRAD

The software supports reading and writing the signature of NTAG cards. Please note that modifying the signature and card number requires using "Copy Card". And it supports writing website addresses, phone numbers, and other information

ISO14443A ISO15693 Ntag CPU

UID: Type:

UID:

Block 4 Read block Write block

Read UID Write UID

Read data Write data

Format ☐ write pwd/cfg

Import Save

☐ Using a password

00000000

Format cards must use a password, and after formatting the card, the default password is FFFFFFFF

URL Info Tel

Ble WIFI APP

www.google.cn

Write Ntag

Read signature Write signature

3.6 fudan 1208-10/9

To read and write CPU cards, you need to first link the card. Start scan can scan the directory of the card. After scanning the directory and files, double-click the file name on the right side to enter the corresponding file and read the data. However, if you want to use this function, we recommend reading the technical documentation of Fudan 1208-10/9. The software supports sending APDU commands and TID/BOMB/SID cards. If you are using a new card, after linking the card, erase the directory and click on "3F00" on the right to customize the creation of a directory or file.

ISO14443A ISO15693 Ntag CPU

CPU

Structural Scan

Scan dir 3F00

Start file 0000

End file FFFF

Scan: 0000

1000

☒ Number of directory scans

Start Scan

Connect card

System scan

Read Struc

Save Struc

Please connect the card first and then scan it

3F00

Bin Record Quick actions SID operate Other

TID 01020304

Inside 0102030405060708

Modify Card

Catalog 3F00

Erase

Power 7

Modify

Password key External Key

Number

Key

Auth

[=] Device connection in progress.....

[=] Device successfully connected

yes

--> Embedded flash memory 512K bytes (58% used)

[=] Connection successful