



**How to use DS-K1T804A Fingerprint Terminal
connect to fingerprint reader DS-K1201A by RS-485**

Preparation

Type	Model	Version
Software	IVMS-4200	V3.10.0.6
Fingerprint terminal	DS-K1T804A	V1.4.0 build 230613
Fingerprint Card reader	DS-K1201A	V1.0.0_231017

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Introduction: This article will introduce how to use the K1T804A fingerprint terminal to connect a fingerprint reader via RS-485.

DS-K1T804AMF



K1T804A Pro Series Fingerprint Terminal

- Integrated management of access control and the time and attendance functions
- 3,000 fingerprints, 3,000 cards and 100,000 events storage
- Built-in card reader for Mifare1 card
- Communication via TCP/IP and Wi-Fi
- RS-485, Wiegand interface
- Alarm input and output interface
- ISUP5.0, ISAPI

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DS-K1201AEF

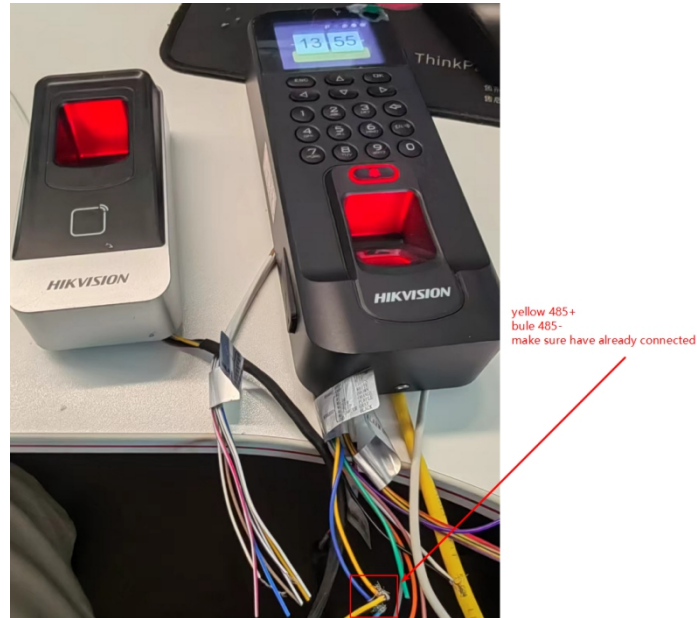


Fingerprint Reader

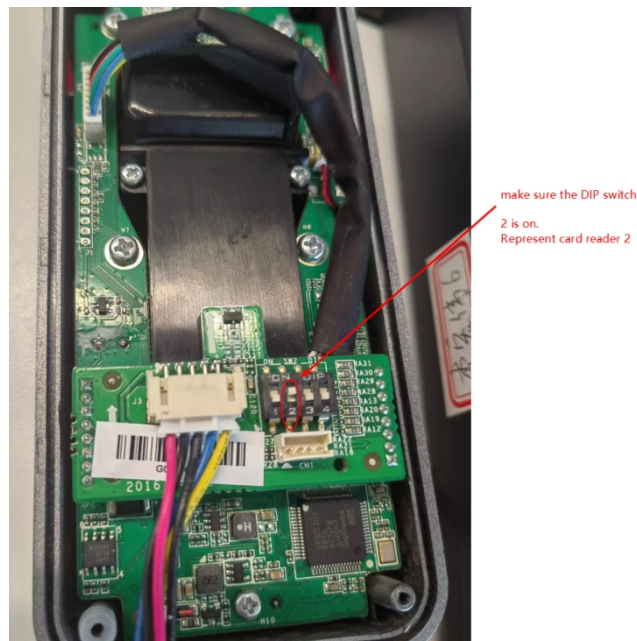
- A group of messy code encrypted data for the security of fingerprint storage
- Supports RS-485 communication with 19200bps-N-8-1 transmission rate. There are CRC test for the protocol
- Supports EM card reading
- Card induction distance is 30 mm to 100 mm
- Supports multiple authentication modes (card, fingerprint, and card + fingerprint)
- Optical CMOS fingerprint module. The characters of fingerprint can be export to the card reader
- Max. 5000 fingerprints storage
- Adopts the optical fingerprint module, supporting 1:N mode (fingerprint, card + fingerprint) and 1:1 mode (card + fingerprint)
- Fingerprint comparison time: 1:1 ≤ 1 s, 1:1000 ≤ 1 s; FRR ≤ 0.01%, FAR ≤ 0.001%
- Communication circuit is designed with optical coupling isolation and noise suppression function
- Built-in buzzer for status indication

1. Wiring

- 1) **Fingerprint terminal and fingerprint reader wiring:** Use the 485 interface to connect these two device. Follow the indication in the figure below.
- 2) **Power supply:** Supply power to the fingerprint terminal and the fingerprint reader respectively.
- 3) **Network:** Connect the fingerprint terminal, fingerprint reader, as well as the computer for configuration to switch.



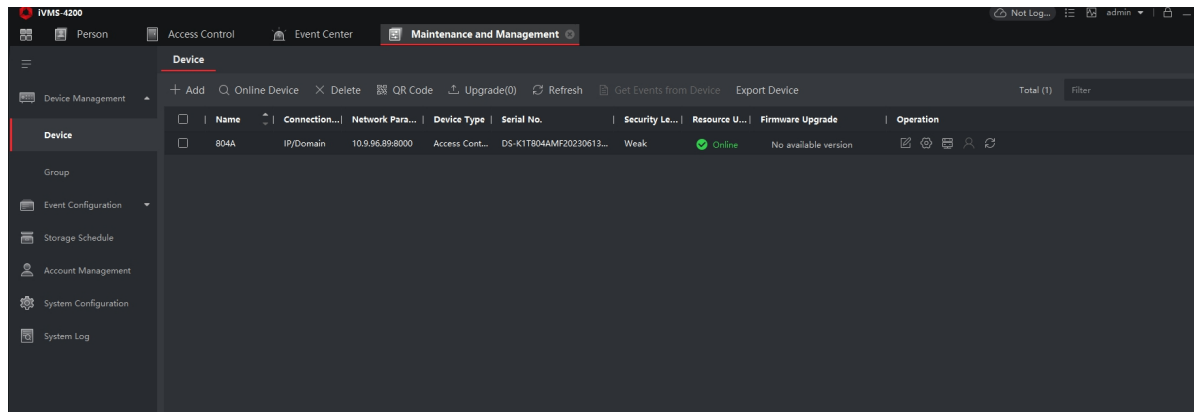
- 4) **Dip Switch:** set the dip switch of fingerprint reader to 0100 that mean the 485 address is 2.



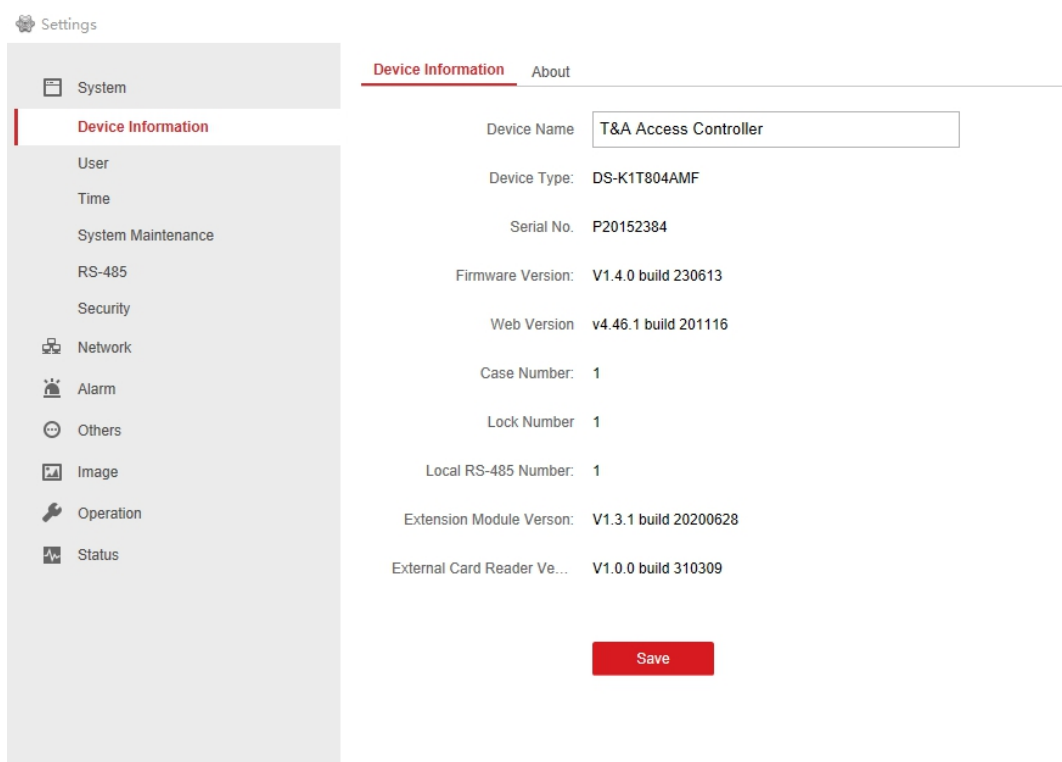
2. Configuration

- 1) Add fingerprint terminal to the IVMS-4200 platform. Make sure the device network status is online.

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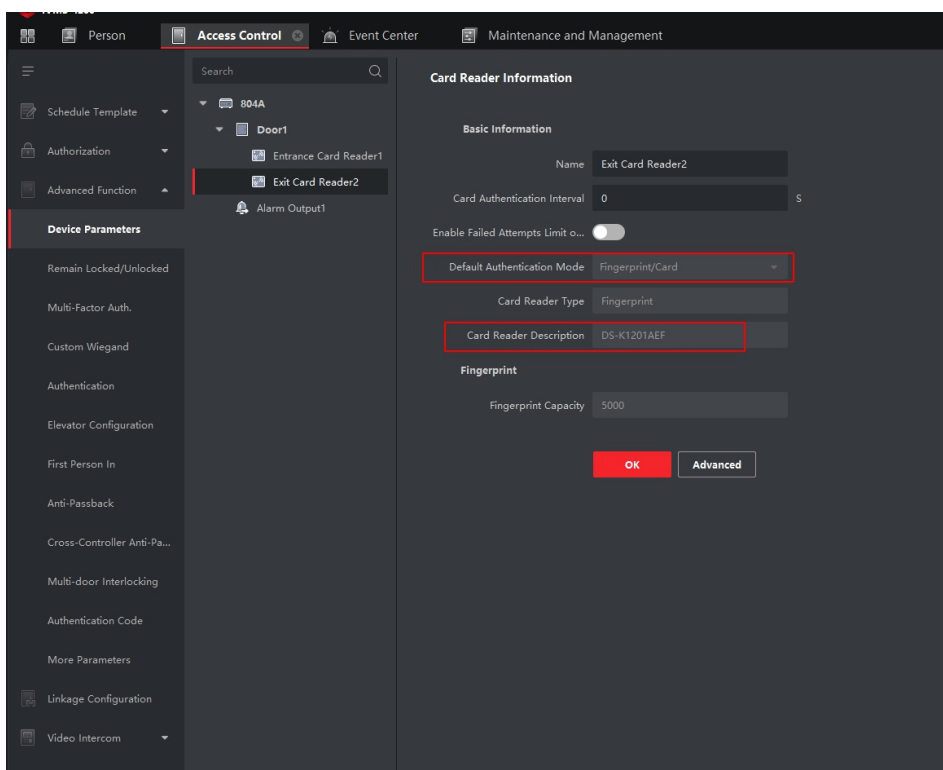
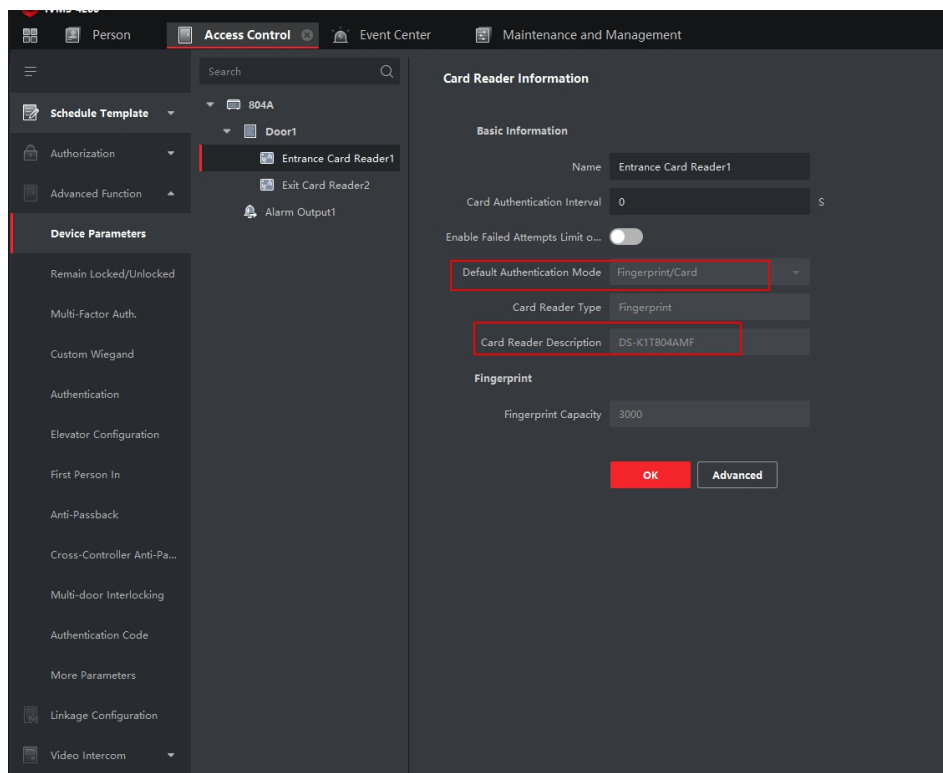


2) Please check the firmware , if not a latest version please upgrade the firmware of fingerprint terminal.



3) Check the fingerprint terminal and card reader status, make sure both device have already online.

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- 4) Create a person ,enroll a fingerprint and a card number for test person.

Add Person

Basic information

Person ID: 00000001

Name: test

Gender: ☒ Male ☐ Female

Email:

Tel:

Validity Period (Access Control): 2023-07-20 00:00:00-2033-07-19 23:59:59 Extend

Remark:

Credential

Card

1313959104
Normal Card

Fingerprint

Fingerprint1
Normal Fingerprint

Fingerprint2
Normal Fingerprint

Iris

Add and New Add Cancel

5) Apply the test person to 804A device.

IVMS-4200

Access Control

Add

Name: test

Schedule Template: All-Day Authorized

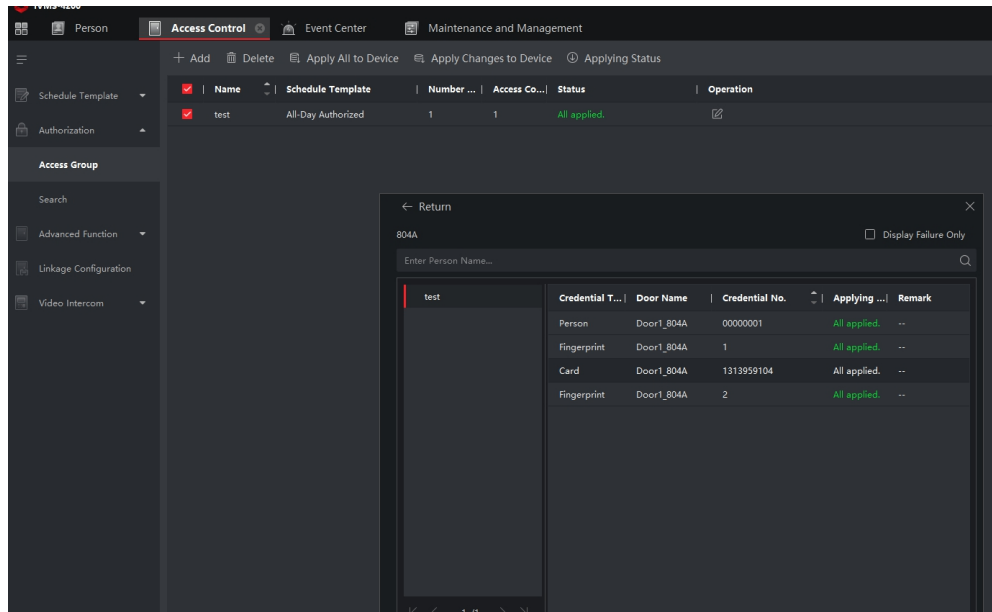
Select Person: Available | Selected (1): test

Select Access Point: Available | Selected (1): 804A, Door1_804A

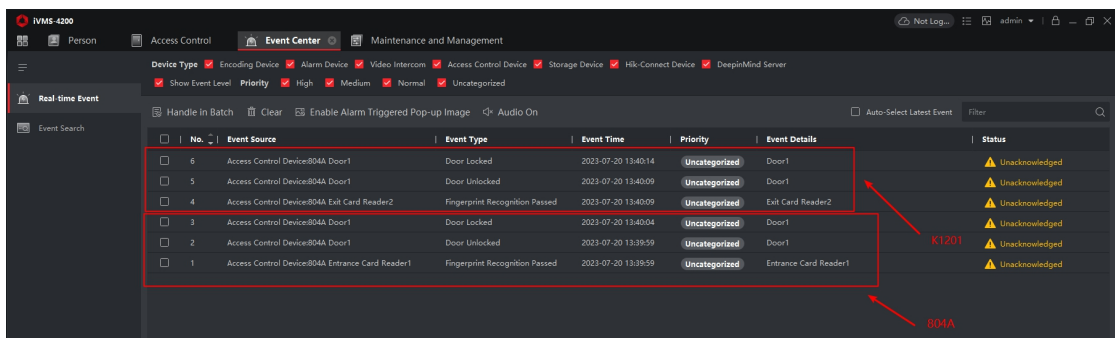
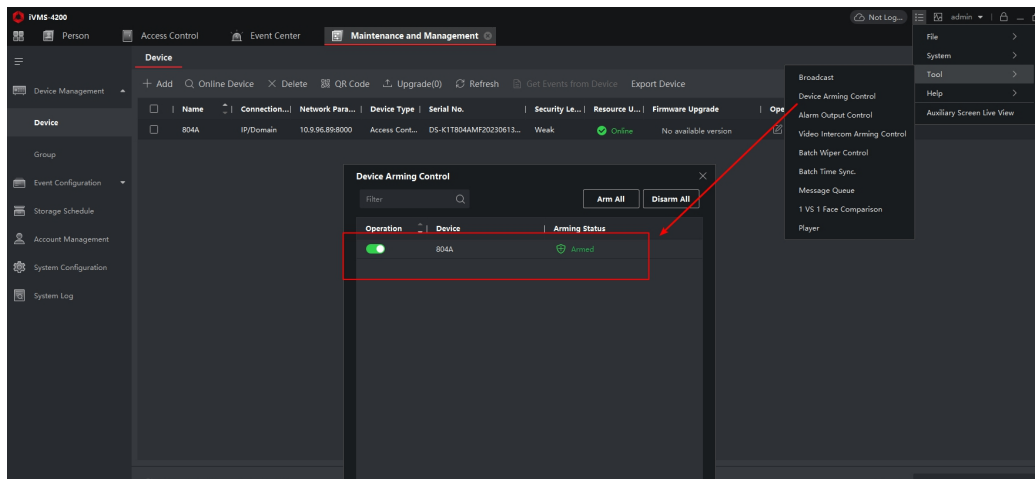
Add Cancel

6) Check the data applying status, make sure the data have apply successfully.

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- 7) Test it , view the real event form event center, make sure the device have been arming for this 4200. if not arming , notify the arming IP to disarm it or delete it. And then you can add it again.



- 8) If fingerprint authentication is failed , you can apply all to device again. And also screenshot the real event picture below to us for further check it.

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