



Home » HUANYA » HUANYA HF5 Tuya WiFi Fingerprint Access Control and Reader User Manual



Contents [hide]

- 1 HUANYA HF5 Tuya WiFi Fingerprint Access Control and Reader
- 2 What's in the box
- 3 INTRODUCTION
- 4 Advantages and Features
- 5 Specifications
- 6 INSTALLATION
- 7 Connection Diagram
- 8 INTERLOCK MODE
- 9 FCC Caution:
- 10 FAQ
- 11 Documents / Resources
 - 11.1 References

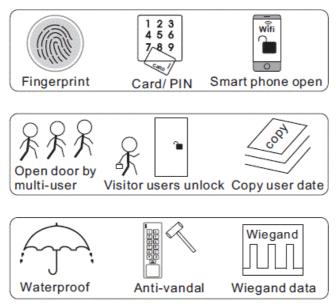
HUANYA

HUANYA HF5 Tuya WiFi Fingerprint Access Control and Reader



What's in the box

Fingerprint Access Control & Reader



INTRODUCTION

 This device is a new generation metal waterproof fingerprint & RFID card standalone access control. It has the zinc alloy housing which is anti-explosion and anti-vandal.
 Conforms to waterproof IP66 which is suitable for outdoor use. Support 100 or 500 fingerprint users and 10000 card/code users. Support fingerprint/card/code/multi-users/temporary visitor users opening the door. And can be set as the card reader. Support upload and download the data of card & PIN code users. It has the door contact detection and anti-tamper functions.

 Supports OTA online upgrade (The users can upgrade their devices by themselves if there is better functional applications)

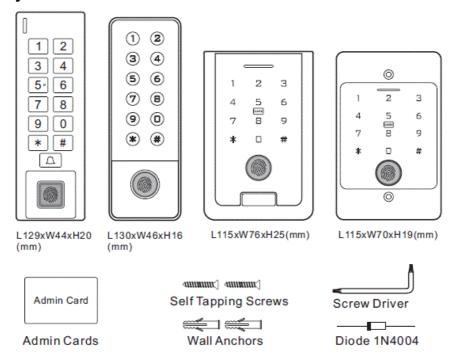
Advantages and Features

- Smart phone management, Smart phone open (WiFi has this feature)
- Supports OTA online upgrade (WiFi has this feature)
- Smart phone door status check (WiFi has this feature)
- Set the temporary PIN code with APP
- Access Mode: fingerprint, card, PIN, multi users
- Wiegand 26-44 bits, 56 bits, 58 bits Input/output
- PIN Wiegand output formats: 4 bits, 8 bits(ASCII), 10 digits virtual card number.
- Pulse Mode and Toggle Mode

Specifications

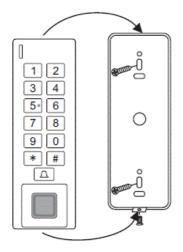
Fingerprint User	100 or 500
Card User/ PIN User	10000
Operating Voltage	DC10-24V
Idle Current	≤50mA
Active Current	≤120mA
Card Type	EM/ Mifare card
Card Frequency	125KHz/ 13.56MHz
Read Range	≤60mm
Operating Temperature	-20°C +60°C

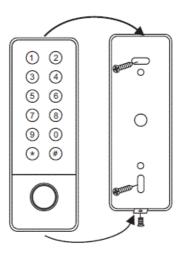
Carton Inventory



INSTALLATION

- 1. Draw the location of the hole and drill the hole on the installation position according to the hole of the back cover.
- 2. Fix the back cover on the wall with the wall anchors in the accessories bag.
- 3. Thread the cable through cable hole, connect related cable. For the un-used cable please separate with insulating tape.
- 4. Cover the front cover and fix the front and back cover together with screwdriver and screws.





Wires Definition

NO.	Function	Colour	Notes
1	NC	Orange	Relay NC
2	COM	Purple	Relay COM
3	NO	Blue	Relay NO
4	GND	Black	Negative Pole
5	DC+	Red	10-24V DC Power Input
6	OPEN	Yellow	Exit Button
7	D_IN	Brown	Door Contact
8	ALARM-	Grey	Connect to external alarm negative pole
9	D0	Green	Wiegand Output/Input Data 0
10	D1	White	Wiegand Output/ input Data 1
11	BELL	Pink	External doorbell
12	BELL	Pink	External doorbell

Sound and Light Indication

Operation Status	LED	Buzzer
Standby Mode	Red light bright	
Enter program Mode	Red light shines	
In the Program Mode	Orange light bright	
Open lock	Green light bright	One beep

Operation failed		Three beeps
------------------	--	-------------

Administrator's Code, Fingerprint and Card

Name	Function
Admin Code	Enter into Program Mode
Admin Fingerprint/Card	Add User RapidlyDelete User Rapidly

Modify Admin Code

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red shines
Modify Admin Code	0# (New Admin Code) # (Repeat New A dmin Code) # (Factory Default is 123456)	Orange bright
Exit Program Mode	*	Red bright

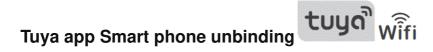
Note: The Admin Code can be any 6 digits and the admin must keep it in mind.

Set Factory Default and Set Admin Card/ Fingerprint

- Press and hold the exit button, power on, release it after two beeps. Swipe the admin card, press the admin fingerprint 3 times, the red led on with one beep, the factory default setting done. And the admin card/ admin fingerprint added successfully.
- The admin card/ admin fingerprint has the function of adding/deleting users.

Note:

- 1. Reset to factory default, the users' information won't be deleted.
- 2. If you don't want to add admin card/fingerprint: press and hold the Exit Button for 5 seconds, release it until hear one long beep and the red light bright.



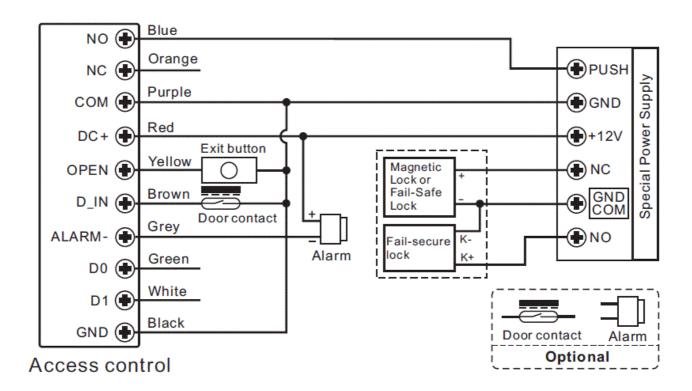
Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red shines
WiFi unbinding	90# (Admin Code) #	Orange bright
Exit Program Mode	*	Red bright

Note: 1.WiFi unbinding: with this operation, the device will disconnect with all the smart phones, the phone can't control the device at the time.

STANDALONE MODE

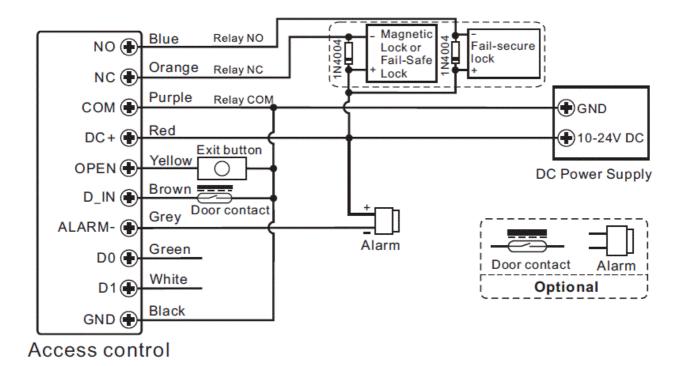
Connection Diagram

Special Power Supply



DC Power Supply

Attention: Install a 1N4004 or equivalent diode is needed when use common power supply, or the reader might be damaged. (1N4004 is included in the packing).



Usage of Admin Add/Delete Card and Fingerprint

Using Admin cards to add and delete users		
Add users	 Step 1: Read Admin card or press Admin fingerprint Step 2: Read user card or press the fingerprint 3 times. (Repeat step 1 for additional users) Step 3: Read Admin card or press Admin fingerprint again to end 	
Delete users	 Step 1: Read Admin card or press Admin fingerprint twice at the standby mode Step 2: Read user cards or press fingerprint (Repeat step 1 for a dditional users) Step 3: Read Admin card or press Admin fingerprint again to end 	

Simplified Instruction			
Enter t	* – Admin Code-#		
he Pro gramm	Then you can do the programming		
ing Mo de	(Factory default is 123456)		
Modify Admin Code	0# (New Admin Code) # (Repeat New Admin Code)# (The Adm an be any 6 digits)	in Code c	
	1# - Read Card/ Press Fingerprint		
Add U sers	Note: When adding users, each fingerprint should be pressed once (or three) in succession.		
Delete Users	2# – Read Card/ Press Fingerprint		
Exit fro			
m the Progra	*		
mming			
Mode			
How to	How to release the door		
Open do	Open door by Fingerprint		
Open do	Open door by card		
Open door by User PIN (User N) #		(Users PI N) #	

Γ

	(Read C
Open door by user card + PIN	ard) (Use
	rs PIN) #

Add Users

Programming Step	Keystroke Combination	LED	
Enter Program Mode	* Admin Code #	Red shines	
Add Card/ PIN Users			
Add Card User: By Card	1# (Read Card)		
Add Card User: By Card Num ber	1# (Input 8/10 digits card number) #	Orange bright	
Add PIN Users	1# (4~6 digits PIN) #		
Add Fingerprint Users			
Add Fingerprint User: By Fingerprint	1# (Fingerprint) (Press each fing erprint 3 times)	Orange bright	

ID Number Add Users

Programming Step	Keystr oke Co mbinat ion	L E D
------------------	-----------------------------------	-------------

Enter Program Mode	* Admi n Code #	R e d s hi n e s
Add Card/ PIN Users		
Add Card User	10# ID # (Rea d Card)	O
Add Card User: By Card Number	10# ID # (Input 8/10 di gits car d numb er) #	a n g e b ri
Add PIN Users	10# ID # (4~6 digits P IN) #	g h t
Add Fingerprint Users	1	<u> </u>

		0
Add		r
Fing		а
erpri		n
nt Us		g
	11# ID# (Fingerprint) (Press each fingerprint 3 times)	е
er: B		b
y Fin		ri
gerpr		g
int		h
		t

Note:

- 1. The ID number is a number assigned to each user and it is usually useless. But when you want to delete specific user, you should input the ID number or card number.
- 2. When adding users, the ID number will be assigned automatically from small to big.
- 3. Add fingerprint users: Every fingerprint should be pressed 3 in times.
- 4. **User Fingerprint ID range**: 1-100 or 1-500, User Card or Code ID range: 1-9988, Anti-duress users ID: 9989 9990, Visitor users ID range: 9991-10000.

Add proximity cards sequentially numbered

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red shines
Add proximity cards sequentially numbered	10# (Input the first ID number) # (card qu antity) # (The first card number) #	Orange bright
Exit Program Mode	*	Red bright

Note: The ID number must be empty and successive.

Add Visitor Users

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red shines
Add Visitor Card	10# ID# (1~9)# Read Card	Orange
Add Visitor PIN	10# ID# (1~9)# (4~6 digits PIN)#	bright
Exit Program Mode	*	Red bright

Note: Visitor users ID range: 9991~10000, Number of time is 1~9.

Delete User

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red
Delete Card User: By Card	2# (Read Card)	
Delete User: By Fingerprint	2# (Fingerprint)	Orange brig
Delete Card User: By Card numb er	2# (Input 8/10 digits card number) #	
Delete PIN User	2# (4~6 digits PIN) #	

Delete Card/ PIN User: By ID nu mber	20# (Input ID number) #	
Delete All Card/ PIN User	20# (Admin Code) #	
Delete Fingerprint User: By ID nu mber	21# (Input ID number) #	Orange brig

Delete All Fingerprint User	21# (Admin Code) #	
Delete All User	2# (Admin Code) #	
Exit Program Mode	*	Red

Note: User Fingerprint ID range: 1-100 or 1-500, User Card or Code ID range: 1-9988, Anti-duress users ID: 9989 9990, Visitor users ID range: 9991-10000.

Change the user code

Standby mode	* ID# old code # new code #
Exit the programming mode	Automatically exit when change done

Pulse Mode and Toggle Mode Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red shines
Access Time Setting	3# (0~180) # (Factory default is Pulse M ode)	Orange bright
Set Toggle Mode	3# 9999#	Dright
Exit Program Mode	*	Red bright

Note:

- 1. Pulse Mode and Toggle Mode, you only can choose one.
- 2. Factory default is Pulse Mode, and access time is 5 seconds. 0 seconds=100MS.
- 3. **Pulse Mode:** The door will be closed automatically after opening the door for a while.
- 4. **Toggle Mode:** Under this mode, after opening the door, the door won't be closed automatically until next valid user input. That's means whether open or close the door,

you must swipe valid card or input valid fingerprint.

Access Mode Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red shines
Open door by card	4# 0#	
Open door by code	4# 1#	Orange bright
Open door by Fingerprint	4# 2#	
Open door by card+ code	4# 4#	
Open door by multi-user	4# (42~49) #	
Open door by card or code or Fing erprint	4# 3# (Factory Default)	
Exit Program Mode	*	Red bright

Note: The number of Multi-User access can be set to 2~9. If the user number is set to 9, it should input 9 different valid users continuously to access, and the time interval of inputting two valid user should be less than or equal 10s. If timeout, the device will exit to standby mode automatically. During the operation the red led light shines.

Alarm output Time Setting (Factory default is 1 minute)

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red shines
Set alarm time	30# (0~3)#	Orange bright
Exit Program Mode	*	Red bright

Note: Alarm time range: 1~3 minutes, 0: Turn off alarm, and it includes door contact alarm, tamper alarm, and the time alarm of safe mode.

Door Detection Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
To disable door detection	50# 0# (Factory Default)	Orango bright
To enable door detection	50# 1#	Orange bright

Programming Step	Keystroke Combination	LED
Enter Program Mode	* (Admin Code) #	Red shines
To disable door detection	50# 0# (Factory Default)	Orange bright
To enable door detection	50# 1#	

Note: After enable the door detection function, you must connect the detection switch into the wiring. There will be two detection status:

- 1. The door is opened by valid user, but not closed in 1 minute, the device will beep. How to stop the warnings: Close the door/valid user/ Automatically stop when the alarm time is up.
- 2. If the door opened by force, the device and external alarm will activate.

 How to stop the alarm: Valid user/Automatically stop when the alarm time is up.

Safe Mode Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red shines

Control Sounds: OFF	6# 0#	
ON	6# 1# (Factory Default)	
Control Red LED: OFF	60# 0#	
ON	60# 1# (Factory Default)	
Control Keypad LED: OFF	61# 0#	Orange bright
ON	61# 1# (Factory Default)	
Intelligent keyboard light	61# 2#	
Anti-tamper Alarm: OFF	52# 0# (Factory Default)	
ON	52# 1#	
Exit Program Mode	*	Red bright

Note:

- Lockout Mode: If swipe card/input fingerprint with invalid users for 10 times in 10 minute, the device will be lockout for 10 minutes. When in Lockout Mode, press the Exit Button can open the door.
- Alarm Output: If swipe card/input fingerprint with invalid users for 10 times in 10 minute, the device will beep and external alarm will activate. The valid user can remove the alarm.

Sound and Light mode Setting

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red shines

Enter the menu	9# 1#	Orange bright
Exit Program Mode	*	Red bright

Data transmission of user card & user code

Note: (Only support copy user of card and code)

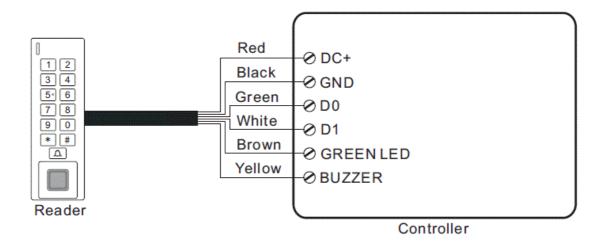
- 1. The two devices must be the device produced by us and support this function.
- 2. The two devices have the same admin code
- 3. Connect the Wiegand cable of the two devices and power on

For example:

For device A and B, they have the same admin code. Add a new card & code user to the device A. Device B has no user. Connect the Wiegand cable of device A and B, then power on. Do the operation of * admin code # 9# 1# on device A. The green led of the two devices flash. The device A is sending the user data to device B.

WIEGAND READER MODE

Connection Diagram



Set standalone / Wiegand reader mode

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red shines
Standalone Mode	8# 0# (Factory Default)	Orange
Wiegand reader Mode	8# 1#	bright
Exit Program Mode	*	Red bright

Note: In wieg and reader mode, brown wire control the Green LED, Yellow wire control the buzzer, only active with low voltage.

Wiegand Format Setting (Factory Default: EM 26 bit, Mifare 34 bit, Password 4 bit

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red
Wiegand check code: OFF	7# 0#	
ON	7# 1# (Factory Default)	
Password Wiegand Format	70# (0# or 4# or 8#)	Orange brig
EM Wiegand format	71# (26# ~ 44#)	
Mifare Wiegand format	72# (26#~44#, 56#, 58#)	†
Exit Program Mode	*	Red

Note:

- 1. 10 Digits Virtual Card Number: Input 4~6 digits PIN, press "#", output a 10-bit decimal card number. For example,
 - input password 999999, the output card number is 0000999999
- 2. Each key press sends 4 bits data, the corresponding relationship is:

- 1 (0001) 2 (0010) 3 (0011) 4 (0100) 5(0101) 6(0110) 7 (0111) 8 (1000) 9(1001) 0(0000)
- 3. Each key press sends 8 bits data, the corresponding relationship is:
 - 1 (11100001) 2 (1101 0010) 3 (11000011) 4 (1011 0100)
 - 5 (10100101) 6 (1001 0110) 7 (10000111) 8 (0111 1000)

INTERLOCK MODE

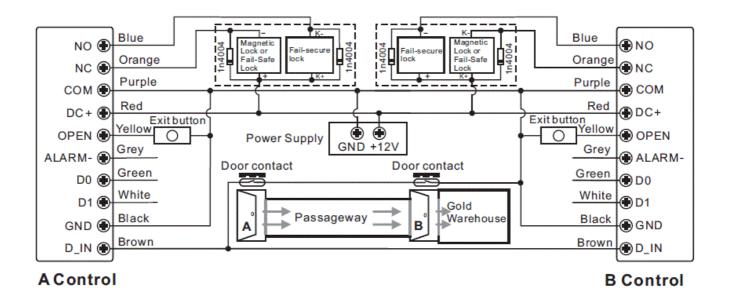
Interlock for two doors, this function usually apply in the places with high safety. For example, there are two doors name A and B in the passage. You access door A with card, and then you cannot access door B with the card until door A closed. That is to say: both of the doors should be closed, then you can swipe your card on one of them.

Programming Step	Keystroke Combination	LED
Enter Program Mode	* Admin Code #	Red shines
Close Interlock Mode	80# 0# (Factory Default)	
		Orange bright

Enable Interlock Mode	80# 1#	
Exit Program Mode	*	Red bright

Note: The Door Contact must be installed, or this function cannot be enable.

Wiring diagram of Interlock



FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

FAQ

Q: How can I set the factory default and add Admin Card/Fingerprint?

A: Press and hold the exit button, power on, release it after two beeps. Swipe the admin card, press the admin fingerprint 3 times, the red LED on with one beep, the factory default setting is done. The admin card/admin fingerprint is added successfully.

Documents / Resources

HUANYA HF5 Tuya WiFi Fingerprint Access Control and Reader [pdf] Use r Manual

HF5, HF5 Tuya WiFi Fingerprint Access Control and Reader, Tuya WiFi Fingerprint Access Control and Reader, WiFi Fingerprint Access Control and Reader, Fingerprint Access Control and Reader, Access Control and Reader, Reader

References

- User Manual
- HUANYA
- Access Control and Reader, Fingerprint Access Control and Reader, HF5, HF5 Tuya WiFi Fingerprint Access Control and Reader, HUANYA, Reader, Tuya WiFi Fingerprint Access Control and Reader, WiFi Fingerprint Access Control and Reader

Leave a comment

Your email address will not be published. Required fields are marked*
Comment *
Name
Email
Website

☐ Save my name, email, and website in this browser for the next time I comment.

Post Comment

Search:

e.g. whirlpool wrf535swhz

Search

Manuals+ | Upload | Deep Search | Privacy Policy | @manuals.plus | YouTube

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.