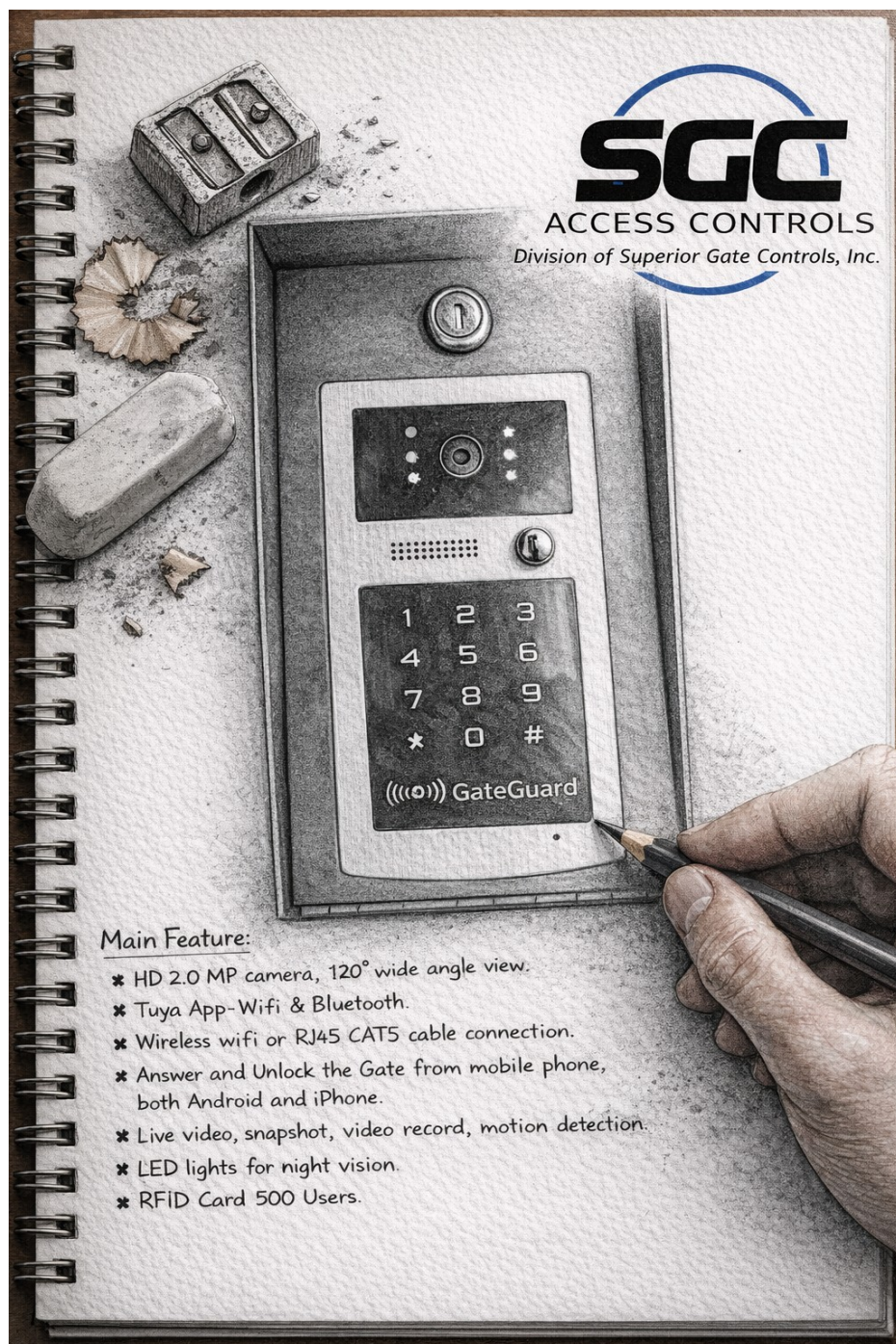


# SGC ACCESS CONTROLS GATEGUARD WI-FI ALL-IN-ONE VISUAL INTERCOM ACCESS CONTROL SYSTEM



## Main Feature:

- \* HD 2.0 MP camera, 120° wide angle view.
- \* Tuya App-Wifi & Bluetooth.
- \* Wireless wifi or RJ45 CAT5 cable connection.
- \* Answer and Unlock the Gate from mobile phone, both Android and iPhone.
- \* Live video, snapshot, video record, motion detection.
- \* LED lights for night vision.
- \* RFID Card 500 Users.

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## USER MANUAL

*Due to the upgrading of mobile phone system, Tuya App will also continue to upgrade.  
If the product operation is inconsistent with this Manual, please contact the seller to obtain the latest  
version of the Manual. Subject to change or without notice*

# GATEGUARD MODEL: GG-1110

## WI-FI VIDEO INTERCOM & ACCESS CONTROL SYSTEM

### IMPORTANT INSTALLATION NOTICE

This manual is intended for **professional installers and system integrators**. Read completely before installation or operation. Improper installation may result in equipment damage, unsafe operation, or non-compliance with applicable safety standards. Mobile applications, firmware, and cloud services may be updated periodically. If app behavior differs from this guide, refer to the latest Tuya Smart® application release.

## 1. Product Overview

The **GateGuard® GG-1110** is a commercial-grade Wi-Fi video intercom and access control device designed for vehicular gates, pedestrian gates, doors, and controlled entry points. The GG-1110 provides video communication, remote unlocking, RFID credential access, and PIN code entry in a single weather-resistant enclosure suitable for outdoor installations.

### Key Capabilities

- Live video intercom to Smartphone or Tablet
- Remote gate or door release
- RFID card access (up to 500 users)
- Secure PIN code entry
- Motion-activated recording
- Infrared night vision camera
- Gooseneck or Surface-mount, outdoor-rated housing

## 2. Technical Specifications

### Feature Specification

Camera Resolution	2.0 MP HD	Dimensions	180 × 98 × 45 mm
Viewing Angle	120° wide angle	Unlock Methods	RFID card + PIN + App
Power Supply	12–15V DC (PoE supported)	RFID Capacity	Up to 500 cards
Power Consumption	Standby ≤2W / Operating ≤5W	PIN Length	4 digits
Night Vision Infrared	up to 10 m (33 ft)	Relay Output Dry contact:	NO / NC / COM
Operating Temperature	–30°C to 60°C	Network	Wi-Fi or Wired Ethernet
Mounting	Gooseneck or Surface mount	Local Storage Micro-SD	(up to 64 GB)
Enclosure	Black Powder Coated Steel		

## 3. Device Identification & Connections

### Front Panel Components Figure 1

1. Black Powder Coated Steel Enclosure
2. Cam Lock
3. Infrared night vision light LEDs
4. Red indicator unlock status
5. HD camera
6. Blue indicator standby status
7. Speaker
8. Call button
9. Capacitive touch keypad
10. RFID card reader zone
11. Microphone

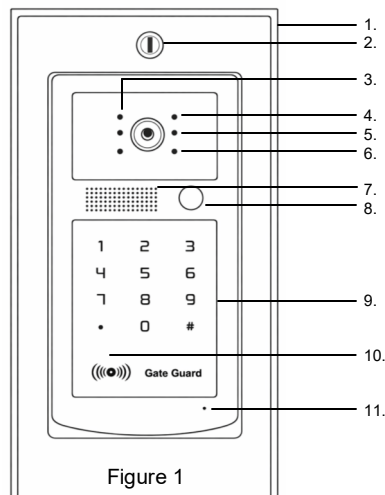
### Factory Reset Procedure

Apply power to the unit

After 20 seconds, press and hold the call button for 5 seconds

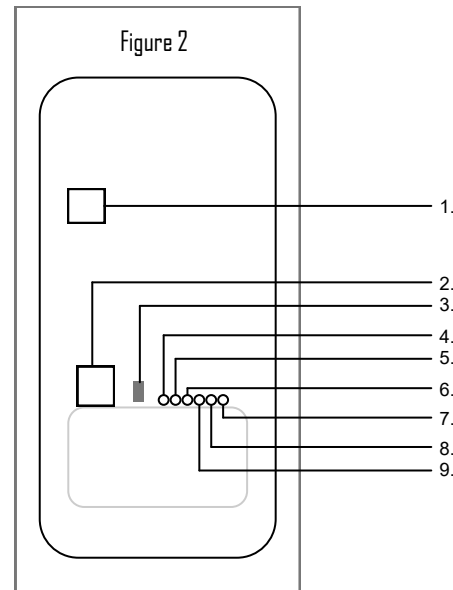
Unit will reboot automatically

Factory defaults restored



## Rear &amp; Internal Connections Figure 2

1. Built-in TF card
2. RJ45 network port
3. Toggle switch Lock power output: L+ / L-
4. NC (Relay normally close)
5. COM (Common terminal of relay)
6. (Relay normally open)
7. DC power input (12–15V)
8. L- /GND (Connected to lock)
9. L+/POS (Connect to lock)



#### 4. Default Credentials

##### Function Default Code

Administrator Password **1234#**

Factory Unlock PIN **5678#**

Supervisor Reset Code **20090806#**

**IMPORTANT:** If the supervisor password is lost, the control board must be replaced. Store all credentials securely.

#### 5. Change Entry Code

Press the button “##” continuously (the buzzer is beeping for a long time) → enter the Administrative Password “1234#” (the buzzer is beeping for a long time) → enter the new 4-digit entry code “XXXX#” (the buzzer beeps twice, and then the new entry code is successfully modified).

# # 1 2 3 4 # [ ] New Code [ ] #

#### 6 Change the Administrative Password

Press and hold the button “#” for 5 seconds (the buzzer is beeping for a long time) → enter the administrative password “1234#” (the buzzer is beeping for a long time) → enter the new 4-digit password “XXXX#” (the buzzer beeps twice, and then the administrative password is successfully modified).

# 1 2 3 4 # [ ] New Code [ ] #

#### 7. Restore the initial Administrative Password

Directly enter the 8-digit supervisor password “20090806#” (the buzzer beeps once long and once short, and then the Administrative Password is successfully restored).

2 0 0 9 0 8 0 6 #

#### 8. Modify the Supervisor Password

Press and hold the button “#” for 5 seconds (the buzzer is beeping for a long time) → enter the supervisor password “20090806#” (the buzzer is beeping for a long time) → enter the NEW Password “XXXXXXXX#” (the buzzer beeps twice, and then the supervisor password is successfully modified).

Note: If the supervisor password is forgotten, the only way is to change the main control IC chip of the mainboard, otherwise you cannot unlock it.  
Note: If you forget the Administrative Password, you can directly enter the Supervisor Password “20090806#” for recovery. The factory Admin Password is “1234#” by default.

*(If the Supervisor Password is forgotten, the only way is to change the main control IC chip of the mainboard, otherwise you cannot unlock it.)  
(Please do not pause in the process of programming operation and keep the continuity, otherwise you may need to operate it again because of operation failure).*

#### 9. RFID Card Programming

##### Create Management Cards

1. Open the unit
2. Set internal toggle switch to **PROGRAM**
3. Apply power to the unit
4. Swipe green card to assign **ADD** function
5. Swipe **red card** to assign **DELETE** function
6. Remove power and return switch to **NORMAL**

NOTE: Initial administrative password: 1234#;  
Factory original unlocking password: 5678#

##### Factory Reset Procedure

Apply power to the unit  
After 20 seconds, press and hold the call button for 5 seconds  
Unit will reboot automatically  
Factory defaults restored



## 10. Add User Cards

1. Swipe green management card
2. Present user RFID cards (multiple cards may be added)
3. Swipe green card again to confirm

## 11. Delete User Cards

1. Swipe red management card
2. Swipe card to be deleted
3. Swipe again to confirm deletion

## 12. App Setup – Tuya Smart®

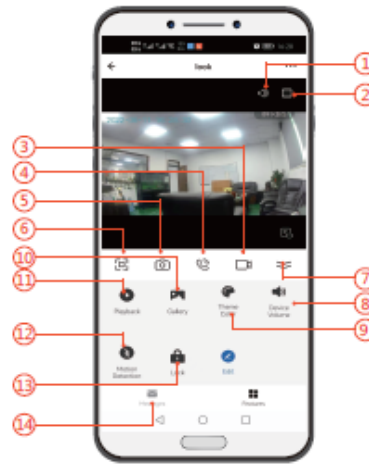
### Wireless (Wi-Fi) Pairing

1. Power on the unit
2. Open Tuya Smart® app
3. Add Device → Camera & Lock → Smart Camera (Wi-Fi)
4. Scan QR code displayed in app
5. Wait for audible confirmation

### Wired Network Pairing

1. Connect Ethernet cable to network router
2. Open Tuya Smart® app
3. Select Wired Network Pairing
4. Complete device discovery and setup

1. Mute mode	2. Magnification display
3. Video recording	4. Microphone
5. Photograph	6. Full screen display
7. Hidden menu	8. Set theme color
9. Storage location of photo and video recordings	
10. Storage location of call and motion detection recordings	
11. Open or close motion detection	
12. Remote unlocking button	
13. Intercom volume	14. Call message list
<b>App Functions</b> <div> <div>Live video monitoring</div> <div>Motion detection alerts</div> <div>Remote unlock</div> <div>Photo and video playback</div> <div>Two-way audio communication</div> <div>Multi-user access management</div> </div>	



Scan the QR code to download the APP, or search for and download "Tuya Smart" APP in software application markets to successfully register an account.

## 13. Wiring Diagrams & Callouts

### Diagram Figure 2– Gate Operator / Access Control Input (Most Common)

Use for vehicular gate operators and access control panels.

- **COM** → Gate operator COM / COMMON
- **NO** → Gate operator OPEN / CYCLE input
- **NC** → Not used unless operator requires normally-closed logic

**Operation:** When access is granted, the GG-1110 provides a momentary dry contact closure between **COM + NO**.

## 14. Electric Lock Control

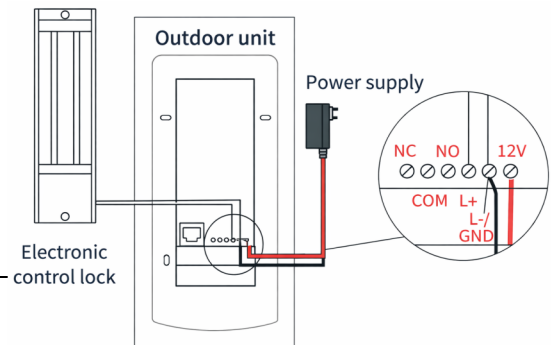
### Electric Strike (Fail-Secure – Typical)

- **L+** → Strike positive - **L-** → Strike negative - Relay: **COM + NO**

### Magnetic Lock (Fail-Safe)

- **L+ / L-** supply maglock power - Relay: **COM + NC** (power drops to unlock)

□□ Verify lock voltage and current ratings before connection.



## 15. Exit Button (Request-to-Exit)

Exit button **NO** → Gate operator EXIT / OPEN input

Exit button **COM** → Gate operator COM

Exit devices operate independently of the GG-1110 for safe egress.

### Factory Reset Procedure

Apply power to the unit  
After 20 seconds, press and hold the call button for 5 seconds  
Unit will reboot automatically  
Factory defaults restored

## D. Operating instructions on Wi-Fi network connection

Download the APP, or search for and download "Tuya Smart" APP in software application markets to successfully register an account.

### A. Create a family

A new family needs to be created at first. Click the option "My" in the lower right corner, select "Family Management", click "Create a Family" and then enter "Family Name" that can be set for your preferences (up to 25 character). "City Location" will be set based on the location of your mobile phone, or you can also manually modify the "City Location" by setting the coordinate points of your home; click "Confirm" for confirmation of the address.

### B. Wireless Network Pairing Method

Power on the outdoor unit (as shown in Figure 2) → the blue status indicator light in the ID card swiping area flashes (as shown in Figure 1 ⑤), and the boot prompt tone can be heard → open the "Tuya" APP → click "+" in the upper right corner to add a device → select security and protection monitoring → smart camera (Wi-Fi) → (upper right corner) select network pairing by the QR code → check "Confirm" to the next step → enter the Wi-Fi currently used and user password → make the camera of the outdoor unit directly face to the pop-up QR code, with a scanning distance of 15-20cm → click "Hear the prompt tone" after you hear it → the Blue indicator standby status in the flashing → the mobile phone starts to connect Wi-Fi → click "Complete" in the upper right corner after successful network pairing → it automatically skips to the monitoring page → the blue indicator light is always on indicating successful network pairing.

### C. Wired network pairing method

Power on the outdoor unit → plug the other end of the network cable into the router → make sure that the Wi-Fi connected to the mobile phone is in the same network as that of the router → open the "Tuya" APP and click "+" in the upper right corner to add a device → select camera & lock → smart camera (Wi-Fi) → (upper right corner) select wired network pairing → check "Confirm" → next step → search for devices → click to add a device on the device received → the indicator light turns from slowly flashing, quickly flashing to be always on indicating successful network pairing → click "Complete" after successful network pairing → it automatically skips to the monitoring page. (Note : network cable up to 300 ft.)

## E. APP instructions

### A. Add members

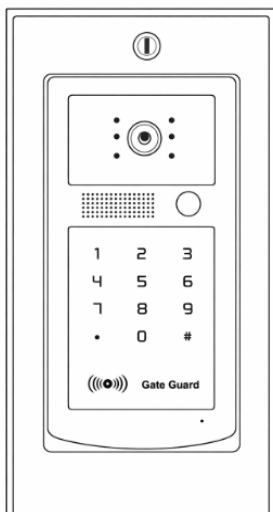
Take out the mobile phone bound with the device, enter the APP, click "My" in the lower right corner → select "Family management" → select the created family group → "Add members" → invite members to join through "WeChat", and click on the members you want to invite to "Share" the invitation code. The invited members shall also download the "TuYa smart" APP and log in (without binding the device) → click "My" in the lower right corner → select "Family management" → join a family → open We Chat to view the invitation code → return to the APP and enter the invitation code. On the bound mobile phone, click "Family management" → select family → view the newly added family members → the number marked with "Family owner" is the main number → you can click family members for editing → there are functions of "Family role" / "Remove from family", etc. Newly added members shall click the "Home page" → click "My home" on the upper left corner to select "Home name" to keep the home on top. The dominated administrator of a family can share and add unlimited mobile phone users, and remotely monitor and view the outdoor conditions with 5 mobile phones at the same time.

### B. How to open motion detection

Click the motion detection icon to open it. Any moving object will automatically open its recording function, and click the icon again to close the motion detection.

### C. Playback function

Only the recordings of calls and motion detection can be played back.



## F. Notes

Need Help?  
G. Contact Your Local  
Dealer

## A. Password setting and modification

### 1. Modify and set up a new password

Press the button “##” continuously (the buzzer is beeping for a long time) → enter the administrative password “1234#” (the buzzer is beeping for a long time) → enter the new 4-digit password “XXXX#” (the buzzer beeps twice, and then the new password is successfully modified).

### 2. Modify the administrative password

Press and hold the button “#” for 5 seconds (the buzzer is beeping for a long time) → enter the administrative password “1234#” (the buzzer is beeping for a long time) → enter the new 4-digit password “XXXX#” (the buzzer beeps twice, and then the administrative password is successfully modified).

### 3. Restore the initial administrative password

Directly enter the 8-digit supervisor password “20090806#” (the buzzer beeps once long and once short, and then the administrative password is successfully restored).

## Add and Delete Cards

### 1. Register a Management Card

Remove the back cover of the outdoor unit → pull down the switch inside the outdoor unit → plug in the adapter/power supply (the buzzer beeps once, and the green light flashes) → swipe the card to be added by default (green card) (the red light flashes) → swipe the card to be deleted by default (red card) (the red light goes off) → unplug the adapter/power supply → pull up the switch inside the outdoor unit → cover the back cover of the outdoor unit and lock with screws (the management card is successfully made).

### 2. Add User Cards

Swipe the card to be added (green card) (the buzzer beeps once, and the green status indicator light in the ID card swiping area is always on) → swipe the blank card (blue card that has not been added) (you can swipe the blank card continuously when you want to add several user cards simultaneously) → swipe the card to be added (green card) for confirmation (the buzzer beeps twice, the green light goes off, and therefore the user cards are successfully added).

### 3. Delete user cards

Swipe the card to be deleted (red card) (the buzzer beeps once, and the red status indicator light in the ID card swiping area is always on) → swipe the card to be deleted (the buzzer beeps once, and the red status indicator light turns from quick flashing to be always on) → swipe the card to be deleted (red card) again for confirmation (the buzzer beeps twice, the red light goes off, and therefore the user cards are successfully deleted).

(If there is no operation for a long time in the process of adding cards, you will automatically exit after the system makes two beeps)

## B. Modify the supervisor password

**Note:** If the supervisor password is forgotten, the only way is to change the main control IC chip of the mainboard, otherwise you cannot unlock it. Press and hold the button “#” for 5 seconds (the buzzer is beeping for a long time) → enter the supervisor password “20090806#” (the buzzer is beeping for a long time) → enter the modified password “XXXXXXXX#” (the buzzer beeps twice, and then the supervisor password is successfully modified).

**Note:** If the supervisor password is forgotten, the only way is to change the main control IC chip of the mainboard, otherwise you cannot unlock it.

**Note:** If you forget the administrative password, you can directly enter the supervisor password “20090806#” for recovery. The factory admin password is “1234#” by default. (If the supervisor password is forgotten, the only way is to change the main control IC chip of the mainboard, otherwise you cannot unlock it.) (Please do not pause in the process of programming operation and keep the continuity, otherwise you may need to operate it again because of operation failure). The supervisor password is used for restoring the administrative password, and the administrative password is used for modifying the user password.

## C. Learn to make management cards

### 1. Register a management card

Open the door of the unit → pull down the switch inside the outdoor unit → plug in the adapter/power supply (the buzzer beeps once, and the green light flashes) → swipe the card to be added by default (green card) (the red light flashes) → swipe the card to be deleted by default (red card) (the red light goes off) → unplug the adapter/power supply → pull up the switch inside the outdoor unit → cover the back cover of the outdoor unit and lock with screws (the management card is successfully made).

### 2. Add user cards

Swipe the card to be added (green card) (the buzzer beeps once, and the green status indicator light in the ID card swiping area is always on) → swipe the blank card (blue card that has not been added) (you can swipe the blank card continuously when you want to add several user cards simultaneously) → swipe the card to be added (green card) for confirmation (the buzzer beeps twice, the green light goes off, and therefore the user cards are successfully added).

### 3. Delete user cards

Swipe the card to be deleted (red card) (the buzzer beeps once, and the red status indicator light in the ID card swiping area is always on) → swipe the card to be deleted (the buzzer beeps once, and the red status indicator light turns from quick flashing to be always on) → swipe the card to be deleted (red card) again for confirmation (the buzzer beeps twice, the red light goes off, and therefore the user cards are successfully deleted).

(If there is no operation for a long time in the process of adding cards, you will automatically exit after the system makes two beeps)

## GateGuard Entry Control Log

[illegible]