

## FCC WARNINGS

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

### 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.



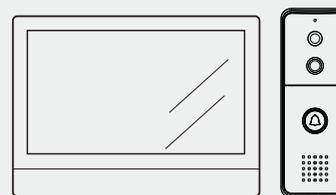
### NOTICE:

This manual is for the purpose of product use and operation. Design and specifications are subject to change without notice.

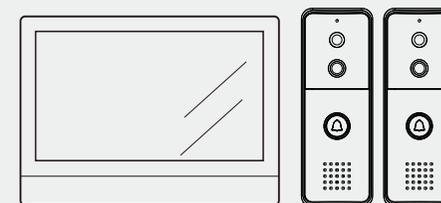
Version 2.0

# Wireless Video Doorphone

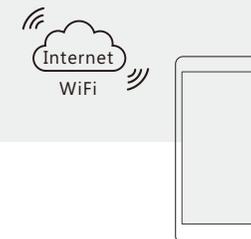
## Quick Installation Guide



1 RL-7RFA-TY



2 RL-7RFA2-TY



## Features

- Open area operating distance: > 300m.
- Support wireless lock opener (optional).
- Support 2 outdoor units.

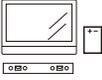
### Outdoor unit:

- 2MP camera, 160° view angle.
- Low power consumption with standby current less than 300uA.
- Built-in 2000mAH lithium battery, type C charge port, solar powered is optional.
- IP55 rating.

### Indoor unit:

- 7" HD screen, up to 128GB TF card video recording.
- USB port power adapter is supplied.
- Optional built-in lithium battery, Type C charge port.
- Optional Wi-Fi function.
- Desktop or wall mount.

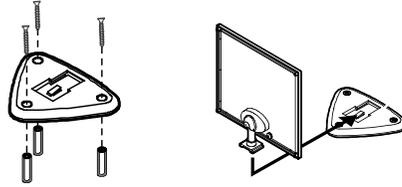
## What's Included

	1	2
 <ul style="list-style-type: none"> <li>- Outdoor Unit</li> <li>- Built-in 18650 lithium battery</li> <li>- Mounting plate</li> </ul>	1	2
 <ul style="list-style-type: none"> <li>- Indoor Unit</li> <li>- Built-in lithium battery (optional)</li> <li>- bracket</li> </ul>	1	1
 <ul style="list-style-type: none"> <li>Type-C USB cable (for outdoor unit)</li> </ul>	1	2
 <ul style="list-style-type: none"> <li>90° right angle type-C USB cable (for indoor unit)</li> </ul>	1	1
 <ul style="list-style-type: none"> <li>Screw Pack</li> </ul>	1	1
 <ul style="list-style-type: none"> <li>USB Power</li> </ul>	1	1
 <ul style="list-style-type: none"> <li>Lock Opener (optional)</li> </ul>	1	2
 <ul style="list-style-type: none"> <li>1.5W solar panel (optional)</li> </ul>	1	2

## Installation Instruction

### A. Solar panel installation

1. Secure the bracket onto wall by using screws.
2. Snap the panel into the bracket.

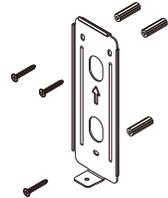


### NOTICES

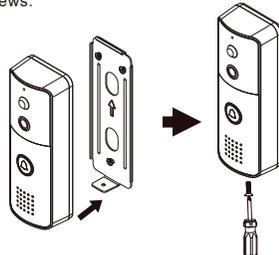
- Make sure the PIR sensor is not exposed to the direct sunlight.
- Do not install the device at the location where people are frequently moving.
- Make sure the outdoor unit is installed near the indoor unit, otherwise, the video quality may be affected.
- Use a slightly damp soft cloth to clean the camera or screen.
- The image quality may be interfered by strong electromagnetic signals, therefore, when using the product, avoid the electromagnetic sources such as motor and transformer and make sure the circumstance is barrier-free and no interference.

### B. Outdoor Unit installation

1. Fasten the mounting plate on the wall with screws. (1.4-1.6m high from the ground)

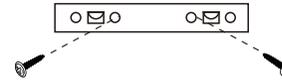


2. Turn the power ON/OFF switch to ON.
3. Fix into the mounting plate and fasten the bottom with screws.

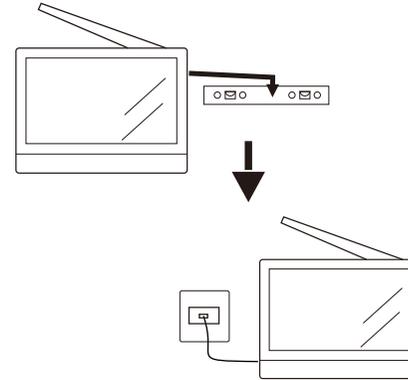


## C. Indoor unit installation

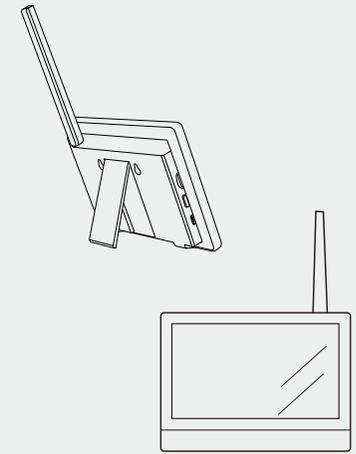
1. Fix the bracket on the wall with screws. (1.4-1.6m high from the ground)



2. Hang on the bracket.
3. Connection to power source.

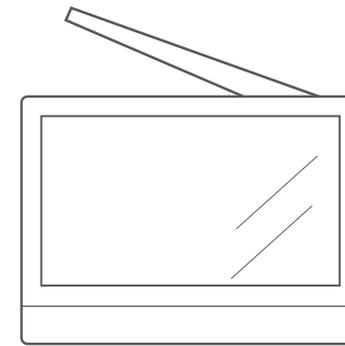


**NOTE:** The indoor unit can be placed on desk as below.

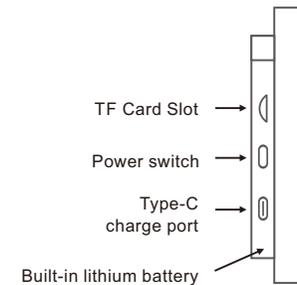


## Function Keys and Operations

### A. Indoor Unit



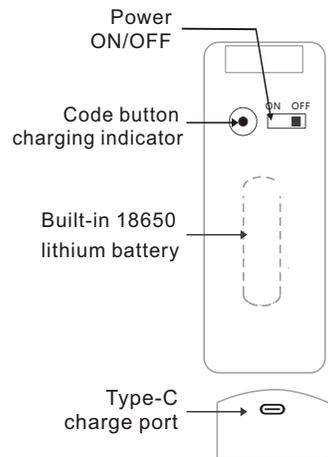
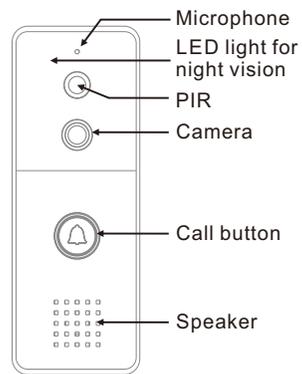
Front View



Side View

**Device Startup:** Long press the power switch to start up. When the screen is black, simply tap on the screen or short press the power switch to turn it on.

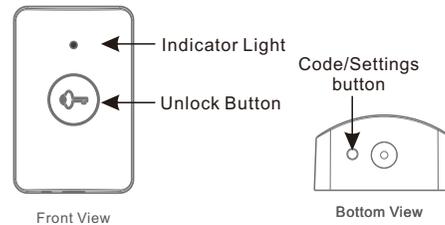
## B. Outdoor Unit



### NOTE:

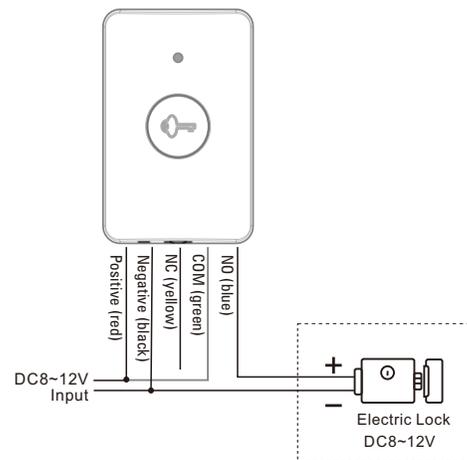
- For the first time use, charge the device for 3 hours before using it (The indicator light will be red during charging and it will turn to green after fully charged).
- If the distance between the outdoor unit and indoor unit is long, we recommend you place the indoor unit's antenna vertically, so that the antenna coverage can achieve the best.

## C. Wireless Lock Opener

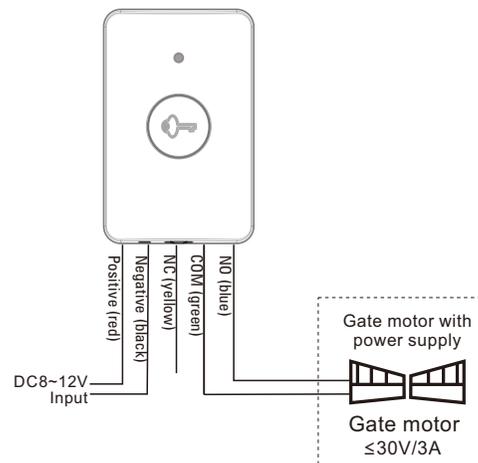


### Wiring Diagram

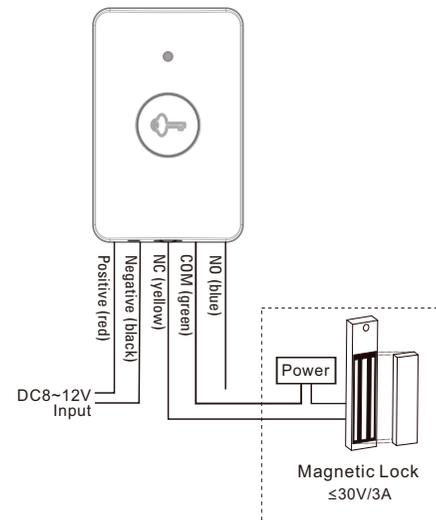
#### 1. Electric Lock (Normally open)



#### 2. Gate Motor (Normally open)



#### 3. Magnetic Lock (Normally closed)



## A. Description of Indoor Unit Interface

### 1. Display settings

- **Volume:** Talk volume setting.
  - **Camera:** Add device.
  - **Ring:** Ringtone settings.
  - **Time:** Manual time set or Wi-Fi auto time set.
  - **Display:** Brightness and screen saver setting.
  - **WLAN:** Network setting, enter the Wi-Fi name and the password to connect the network.
  - **Language:** Multilingual.
  - **TF card:** Storage info and formatting operation.
  - **About:** Device model, firmware version, and so on.
- If wanting to delete the paired device, tap About >> Reset factory setting.

### 2. Camera Settings (Outdoor Unit Settings)

- **Monitor:** Tap on the play icon at the center of the screen to monitor the outdoor unit, after, you can also select to intercom and unlock.
- **Playback:** Play the videos stored in the TF card.
- **Message:** View the recorded videos based on call, monitor and motion detection.
- **Settings**
  1. Push settings: Motion detection alert, turn it on or off.
  2. Motion detection settings: Low/Medium/High sensitivity selectable.
  3. Monitor time settings: The time can be set from 1 to 5 minutes.
  4. Volume settings: Talk volume and ringtone volume settings.
  5. Tone settings: Prompt tone settings.
  6. Power management settings: Power level and low level alert.
  7. Device information: Device model and firmware version and so on.

## Operation Instructions

### Power on devices for the first use

- Indoor unit: Long press the power switch.
  - Outdoor unit: Slide the power switch to the ON position.
- a. When the visitor presses the call button of the outdoor unit, the indoor unit will sound the ringtone, display the image of the visitor and automatically take a video recording. Tap Accept on the pop-up dialog on the screen of the indoor unit to communicate with the visitor (talk time: 90s).
- Tap "🔓" unlock button to release the electric lock.
  - Tap "📞" hang up button to hang up.

### 3. Pair the Camera (Outdoor Unit) to the Indoor Unit

1. On the indoor unit, tap "Display" >> "Camera" >> "Add Device", it will sound "Di-Di-Di" tone to indicate it has entered to add device state.
2. On the outdoor unit, continuously press the code button 3 times, it will sound "Di-Di-Di" tone to indicate it has entered to pair state.
3. When both the indoor unit and outdoor unit sound a long "Di" tone, the pairing is successful. The outdoor unit model will be added to the "Camera" screen of indoor unit.
4. If you want to add the paired outdoor unit to another indoor unit, reset the outdoor unit first and then follow the pair instructions above.

#### Reset:

Power OFF the outdoor unit and then power it ON, long press the code button 5 seconds, it will sound a long "Di" tone to indicate the reset is successful.

### 4. Indoor Unit Network Configuration

1. On the indoor unit, tap "Display" >> "WLAN", select the Wi-Fi name and enter the password to connect the Wi-Fi.
2. On your mobile phone, scan the QR code below to download and install the app.



Android 5.0 / iOS 8.0 or higher



TuyaSmart

3. Register an account and login.
4. Tap the QR code at the upper left corner of the screen of the indoor unit, the device QR code will be pop-up.
5. Open the app, tap "+" at the upper right, select "Scan QR Code" to scan the QR code of the indoor unit, after, the device will be added successfully.

## B. Description of Wireless Lock Opener

### Coding

After connecting the wires according to the wiring diagram, long press the code button on the lock opener for 5 seconds, the indicator light will flash to indicate that it has entered to receive code status (60 seconds).

1. For the indoor unit (or app), press the unlock button on the monitoring interface.
2. For the remote control, press the button on it. (433MHz wireless remote control, not included)

The lock opener's indicator light will be turned on for 3 seconds to indicate that the coding is successful.

### Unlock Time Setting

1. The default unlock time is 1 second.
2. Short press the Setting button on the lock opener to select and set the unlock time as the table below in an order manner.

Indicator light	Unlock time
1 flash	1s
3 flashes	3s
5 flashes	5s
10 flashes	10s

Only one remote control can be coded for each coding process. To code more, simply repeat the process. Up to 5 remote controls (or 4 remote controls and 1 outdoor unit) can be coded.

### Clearing Code

Press the "Unlock" button and "Code" button at the same time for 3 seconds, the indicator light will give 3 flashes to indicate that the clearing code is successful.

## Troubleshootings

### 1. When calling, no response or no ringtone.

- Check if the outdoor unit has been paired to the indoor unit.
- Check if the indoor unit is set to mute.
- Check the signal strength which will be displayed on the screen of indoor unit, check if the signal is interfered.

### 2. No audio during communication.

- Check if the microphone of the indoor unit or outdoor unit is blocked.
- Check if the volume is set to 0%.

## Technical Specifications

Wireless transmission frequency between indoor unit and outdoor unit	( 868 ) : 866~868MHz ( 915 ) : 906~926MHz
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### Indoor unit

Screen resolution	1024(RGB)*600
Display size	7"(LCD)
Battery	DC3.7V/1150mAh lithium
Power supply	DC5V/1A
Operating current	<800mA
Standby current (average)	<300mA
Ring/talk volume	>80dB
TF card	Up to 128 GB
WIFI frequency	2.4GHz & 5GHz
Wireless distance	200~300m (open area)
Wi-Fi range	≈80m (open area)
Outline dimension	181(W)*128 (H)*24 (D) mm
Operating temperature	-10°C~50°C
Relative humidity	10%~90%(RH)

### Outdoor unit

Battery	DC3.7V/2000mAh lithium
Charging voltage	DC5V/1A or solar panel
Camera	2MP, 1080P, 160°
Ring/talk volume	>80dB
Standby current	<300uA
Operating current	<500mA
RF unlock frequency	433.92MHz
Wireless distance	200~300m (open area)
RF unlock distance	≥50m (open area)
Night vision	850nm (infrared)
IP rating	IP55
Outline dimension	58(W)*160(H)*36(D) mm
Operating temperature	-20°C~50°C
Relative humidity	10%~90% (RH)

### Lock Opener

Power Supply	DC 8~12V
Standby Current	<10mA
Working current	<100mA
Max lock working current	≤30V/3A
Wireless frequency	433.92MHz
Wireless distance	50 - 100m (Open area)
Lock type	Electric Lock/Gate Motor/Magnetic Lock
Unlock time	1s(default), 3s, 5s, 10s
Modulation	OOK
Number of Transmitter	5 (Max)
IP Rating	IP44
Operating Temperature	-20°C~60°C
Relative Humidity	10%~90%(RH)
Outline dimension	44(W)*68 (H)*23.5 (D) mm