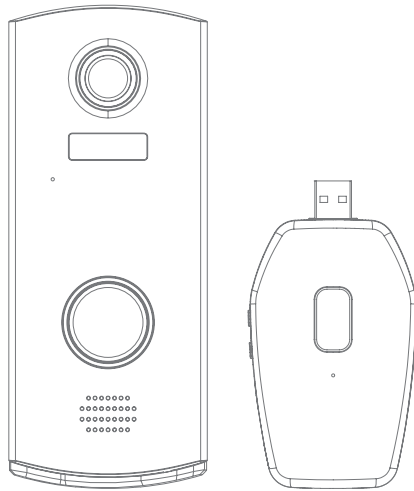# Wireless Battery Powered Video Door Phone w/ Wireless Hub

## Installation and Operating Instructions

# OVERVIEW

The state of art Video Doorphone is capable of deliver high quality Digital High Definition (HD) video to your smart-mobile device(s), which would require higher internet bandwidth. Due to your local internet environment condition, your mobile device(s) may display black-screen or temporary disconnect to the Video Doorphone.

* Make sure the Video Doorphone is operating with sufficient internet bandwidth, **2Mbps (upload/ download speed) is suggested.**
* For best performance, **the smart-mobile device(s) need to be on Wi-Fi or 4G mobile network** in order to receive maximum download speed.
* **When the internet transmission is low,** your Video Doorphone APP will automatically switch to Relay Mode:
    · **By adjusting to "Video Resolution " in the system setting section may improve the Video Doorphone performance.**
* **Your internet bandwidth is limited.** For best performance, try to avoid more than two users connecting to the Video Doorphone simultaneously.
* Make sure your smart-mobile device(s) is equipped with up-to-date technology, **1.5GHz dual core processor or equivalent is suggested.**
* **If the signal strength of your Wi-Fi router is weak,** there are several ways to improve transmission:
    · Change router/camera relative position to receive better signal.
    · Use Wi-Fi repeater/extender to maximize the service range of your Wi-Fi route.
    · Switch your router to 11b/g/n mode in order to improve router service range.
* Please use maximum 128GB of Micro SD card XC class 10 or Micro SD card XC class 10 UHS1. **16G Micro SD card had been pre-insert in the Wireless Hub**

# CONTENTS

# INTRODUCTION

## IMPORTANT SAFETY PRECAUTIONS

Damages caused by non-compliance with this operating manual will void the warranty! We will not assume any liability for damages to items or persons caused by improper handling or non-compliance with the safety notices! Any warranty claim will be null and void in such cases.

1. Do not drop, puncture or disassemble the camera; otherwise the warranty will be voided.
2. Avoid all contact with water, and dry hands before using.
3. Never tug on the power cords. Use the plug to unplug it from the wall outlet.
4. Do not expose the camera to high temperature or leave it in direct sunlight. Doing so may damage the camera or cause camera temporary malfunction.
5. Use the devices with care. Avoid pressing hard on the camera body.
6. For your own safety, avoid using the camera or power off the camera when there is a storm or lightning.
7. Remove the power adapter during long periods between usages.
8. Use only the accessories and power adapters supplied by the manufacturer.
9. To meet the regulations pertaining to parental responsibility, keep the devices out of the reach of infants.
10. Check power cables, do not get crushed or damaged by sharp edges whenever the devices are in operation.

# INTRODUCTION

## PLEASE READ BEFORE YOU START

Always use discretion when installing CCTV equipment, especially when there is perceived policy. Enquire relevant local regulations applicable to the lawful installation of video recording/ surveillance. Third party consent may be required.

## Installation Notice:

It is recommended to install the camera at the 1.3 M height above ground to have better performance of the Human detection. Please see below illustration.

1.7M

1.3M

2M

Walking Direction

B

2M    3M    4M

2.4M

A
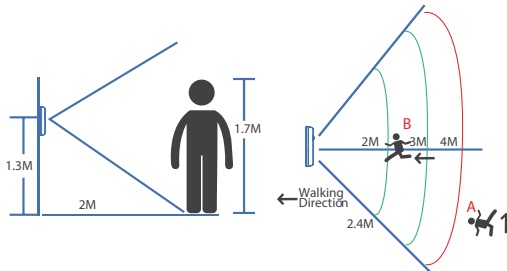
## SPECIAL NOTICE OF HUMAN DETECTION FEATURES

It is recommended to install the camera at 1.3 Meters height to have the best detection coverage. The detection effective range is 2~4 meters far from the camera.

Under certain scenario, environment, or application of the product would cause the human detection not be able to function properly. Please see below for the conditions:

1. The PIR sensor sense the motion of the radiated heat from human body or animal body. The sensor tell the camera when to start recording or alert user.

2. temperature of the environment is too high (greater than 35 degree), so keep away from any heat source.

3. The detection accuracy maybe varied according to the walking direction. Best detection: left to right or right to left (point A). less accurate: walking straight ahead. (point B)

4. The sensor cannot sense the motion behind the glass. Always place camera at the space without obstacles.

## WIRELESS DEVICES OPERATING RANGE

Ensure the signal reception viewed from the wireless camera(s) is the best possible reception between the camera(s) and the Wi-Fi router. If necessary, reduce the distance between the camera(s) and the Wi-Fi router to improve overall system performance.

FCC Compliance Statement: This device complies with Part 15 of the FCC rules. Operation is subjected 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.

Products with CE Marking comply with EMC Directive (2004/108/EC); Low Voltage Directive (2006/95/EC); RED(2014/53/EU); ROHS Directive (2011/65/EU) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:
EMC: EN 301 489
LVD: EN 62368-1
Radio: EN 300 328

## FCC/CE WARNING

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules and ETSI(EN) 300328. These limits are designed to provide reasonable protection against harmful interference in residential installations. 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 interference to radio or television equipment 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.
- Move the equipment away from the receiver.
- Plug the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for additional suggestions.

You are cautioned that any change or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate such equipment.

## DISPOSAL

If the camera system no longer functions or can no longer be repaired, it must be disposed of according to the valid statutory regulations.
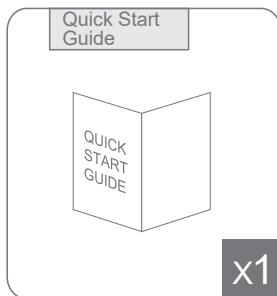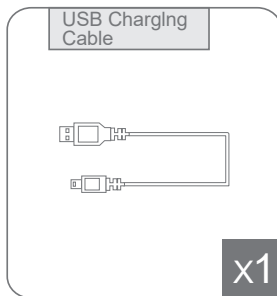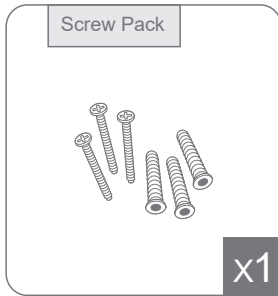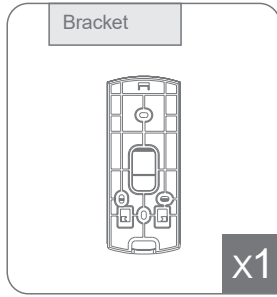Disposal of spent batteries/accumulators:
You are required by law (Battery Ordinance) to return all spent batteries and accumulators. Disposing of spent batteries/accumulators with common household waste is prohibited! Batteries/accumulators that contain hazardous substances are marked with the symbols on the side. These symbols indicate that it is prohibited to dispose of these batteries/accumulators in the household waste. The abbreviations for the respective heavy metals are: Cd=cadmium, Hg=mercury, Pb=lead. You can return spent batteries and accumulators that can no longer be charged to the designated collection points in your community, outlets or wherever batteries or accumulators are sold. Following these instructions will allow you to fulfill the legal requirements and contribute to the protection of our environment!
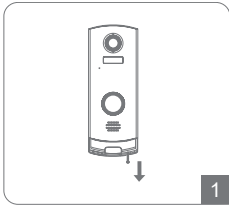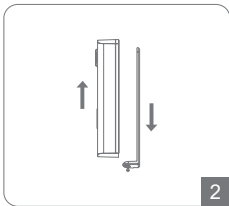
# KIT CONTENT

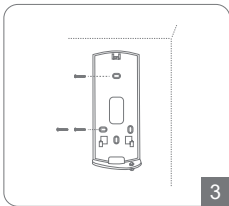| | |
|---|---|
| Video Door Phone x1 | Bracket x1 |
| Screw Pack x1 | USB Charging Cable x1 |
| Wireless Hub x1 | Quick Start Guide — QUICK START GUIDE x1 |

# VIDEO DOOR PHONE INSTALLATION

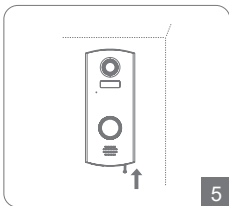Use a phillips screwdriver to remove the set screw.

Remove the device from the wall mount bracket. Fully charge the video door phone before installation.

Confirm position and mount the bracket via the screws supplied.
Placing video door phone at 150cm~160cm above the ground is the ideal position.
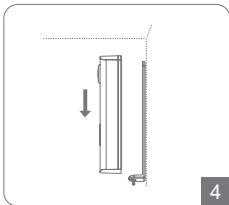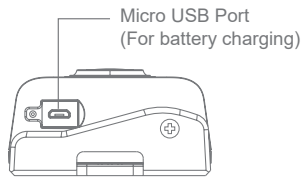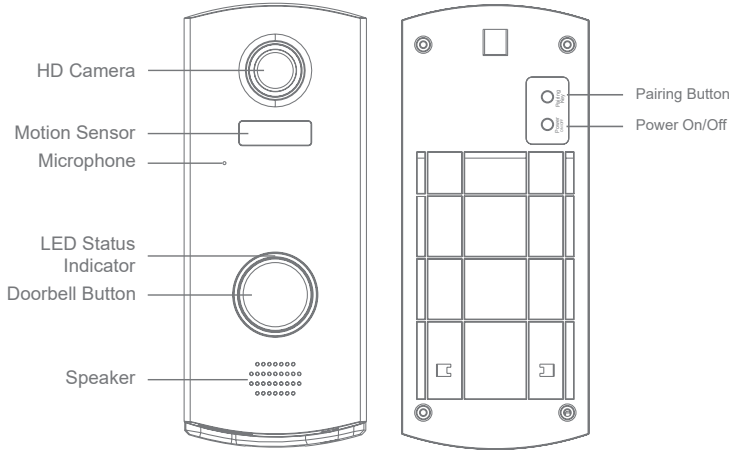
Install the device from the bracket.

Fasten the screw to secure video door phone to the bracket.

# VIDEO DOOR PHONE

HD Camera

Motion Sensor
Microphone

LED Status
Indicator
Doorbell Button

Speaker

Pairing Button

Power On/Off

Micro USB Port
(For battery charging)
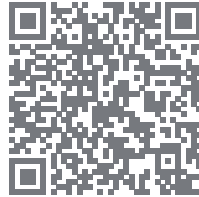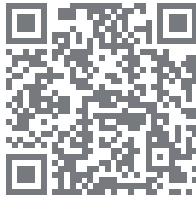
# APP DOWNLOAD AND INSTALL

The Wireless APP camera is designed to deliver live video footage directly to your smart phone or tablet device. Please follow these steps to download, setup and use the APP.

**Download the App**

Please download and install the "**ESP Smart**" APP to your device.
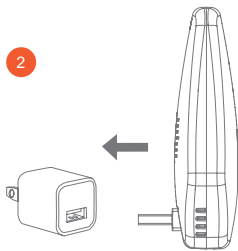
ESP Smart

# APP SETUP

(1) Download and install the "ESP Smart" APP to your device.

(2) Plug in the Wireless Hub to USB power adaptor which support 5V/1A power output.
When the Wireles Hub is booted The Blue status indicator will flash slowly. And you will hear a voice prompt "Ready for Router Setup".

(3) To connect wireless hub to your home Wi-Fi router by ESP Smart APP.

## Setup Steps

1. Open the app, and the press " ⊕ " button to add new system.
2. Select "**Battery Camera Kit**" and follow the wizard to complete setup.
3. If you are the first time to add the wireless hub to your device list, please select "New Device" to add the wireless hub. If you've set it up before, please select "Existing Device" to add it to your list by entering DID and security code information.
4. Please turn up the volume at least 70% above of your mobile phone, then swipe left.
5. Ensure to setup the device at the less noisy environment and keep the phone to the Wireless Hub /devices 30cm, then swipe left.
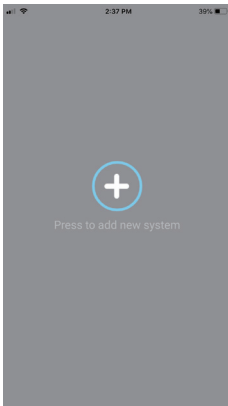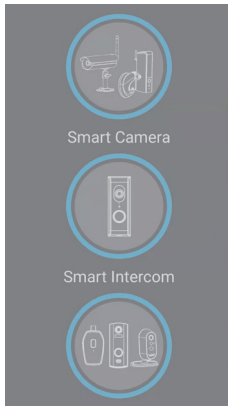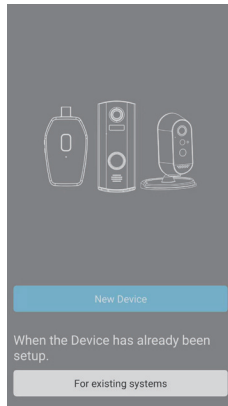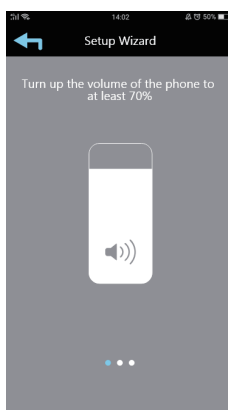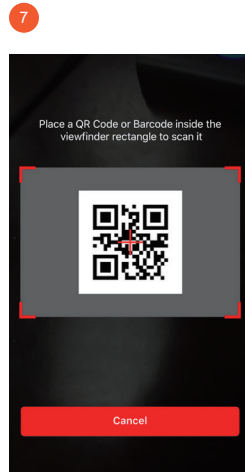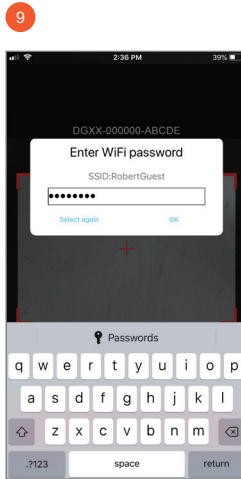
## Setup Steps

6. Ensure the router you wish to connect is 2.4GHz. Wireless Hub/ Device do NOT support 5G network, then press "**OK**".
7. Please scan the QR code label which be placed on the back of wireless hub.
8. If your mobile phone is not on the Wi-Fi, please follow the instruction in the pop-up window.

# Setup Steps

9. Please check the Wi-Fi SSID is correct and enter the password, then press "**OK**". After pressing OK, your mobile phone will transfer the Wi-Fi setup information to your wireless hub via ultrasonic. You will hear a voice prompt "**Receive Router Setup Information**".



10. It takes approximately 2 mins for wireless hub to connect to your home router. You will hear a voice prompt "**Router Connection Successful**" once it's connected.
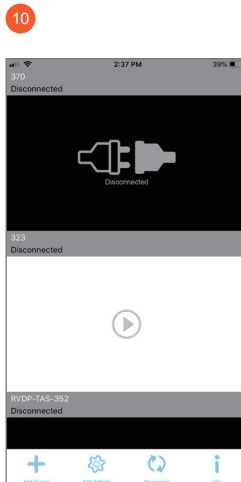
## Setup Steps

11. For you own security concern, please modify the sucurity code of your new added device. Please press "**OK**" for processing.

12. Please modify your security code. Default password "123456" is NOT recommended.
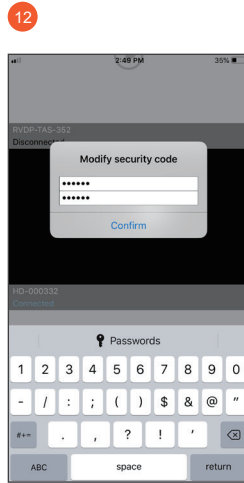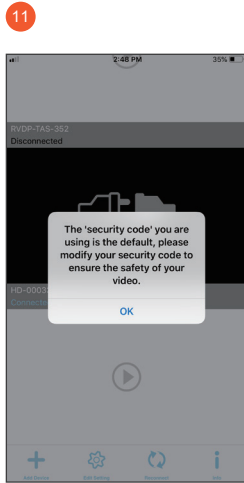




**Note:**

You are not able to use switch function while threre is only one camera be purchased and paired to your wireless router.

# Home Page / Device List

1. ADD Device: To add the new devices in list.
2. Edit Setting: To access "Setting", "Delete" & "Event".
3. Reconnect: Refresh connection of all the devices in list.
4. Quad： Select the devices and click the icon to combine the devices liveview into same image(It is available  for more than 1 devices).
5. Info: Setup PIN Lock, APP version information.

# PIN Lock

1. Enable/ Disable PIN Lock: You will be required for entering PIN when you launch APP.
2. Enter your PIN Code: 4 digits number for setup your PIN.
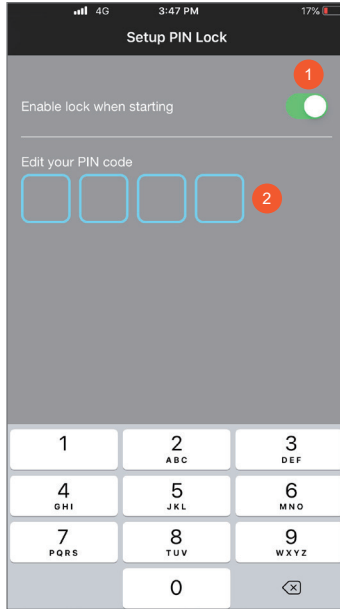


**Note:**
If you forget your PIN, please remove your APP and reinstall it.

# Live View

1. Connection status of the Wireless HUB.
2. RSSI between Wireless HUB and end device. (Received Signal Strength Indication)
3. Remaining Battery Indication: It turns to Red, while battery is below 15% of power.
4. Talk: Tap to enable the audio transmmition from smart phone to end device.
5. Snapshot: Tap to take snapshot of the live video. The captured snapshots will store in your mobile device.
6. Mute/Unmute: Mute or unmute the live audio.
7. Record: Record a short video clip. Your video is automatically saved to the camera's internal SD card memory.
8. Switch: This function in only available when two devices be paired with wireless hub. Tap to switch the live view of device.
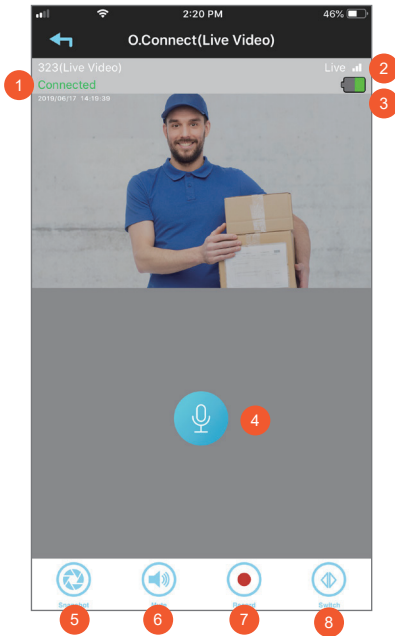
# Edit Setting

1. Setting: Tap to access Basic and Advance setting, Please refer to "**Basic & Advance Setting**" Section.
2. Delete: Tap to delete the device.
3. Event: Tap to review recording clips, please refer to "**Event**" section.
4. Circle: In case more than 1 pcs devices, select ◯ on the top left and click the Quard icon. The devices liveview will be combined into one image.
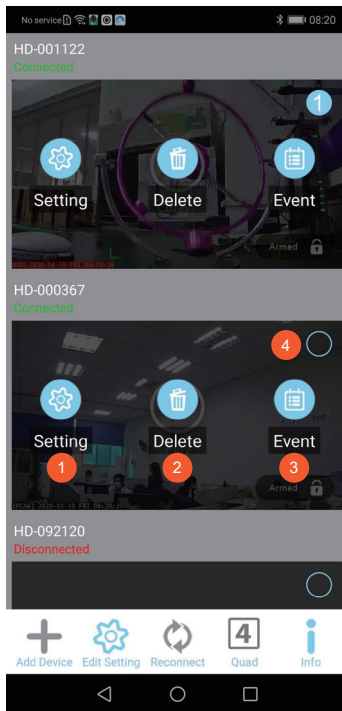
# Edit Setting_Basic Setting

1. Search: Auto search for available devices under your LAN (Local Area Network).
2. Cancel: Back to previous step.
3. OK: Save all the modifications you edited.
4. System Name: Name your device.
5. DID: Device Identification for making remote connection.
6. Security Code: Password for remote access to device.
7. Advanced: Access to advance setting, Admin Password is required.
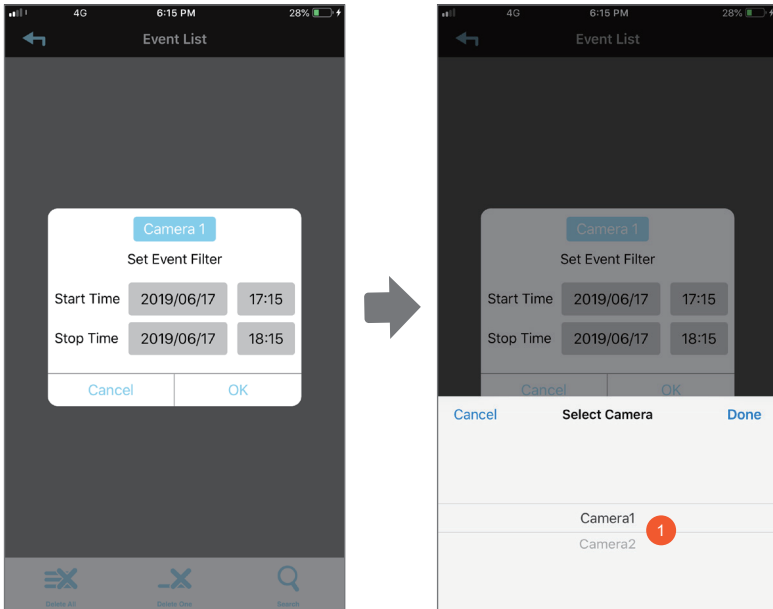   **(Default Admin Password is "123456")**

# Edit Setting_Event

The recorded video files on your camera are automatically saved to the memory SD card. You can remotely access the files for playback via your smartphone.

Tapthe to access the edit menu.

1. Set Event Filter

2. Play Back
    2-1. Select the event you would like to play back.
    2-2. Download the video clip into your mobile device.
    2-3. Delete All: Delete all the video clips in the event list.
    2-4. Delete One: Delete individual clip you selected.
    2-5. Search: Search the specific events by date & time sorting.
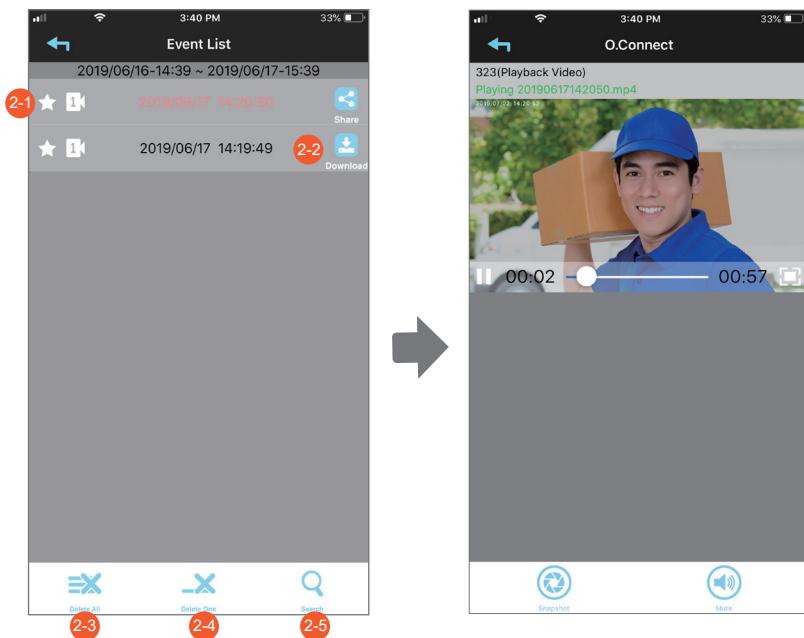


> **Note:**
> During the download process, system will stop both the live view streaming and recording functions. APP will automatically inform any user accessing the camera that the system is busy and the connection has been terminated.

# Play Back

1. Tap to pause/play video
2. Tap to view full screen
3. Tap to take snapshot of the playback video. The captured snapshots will store in your mobile device.
4. Mute/Unmute: Mute or unmute the audio.
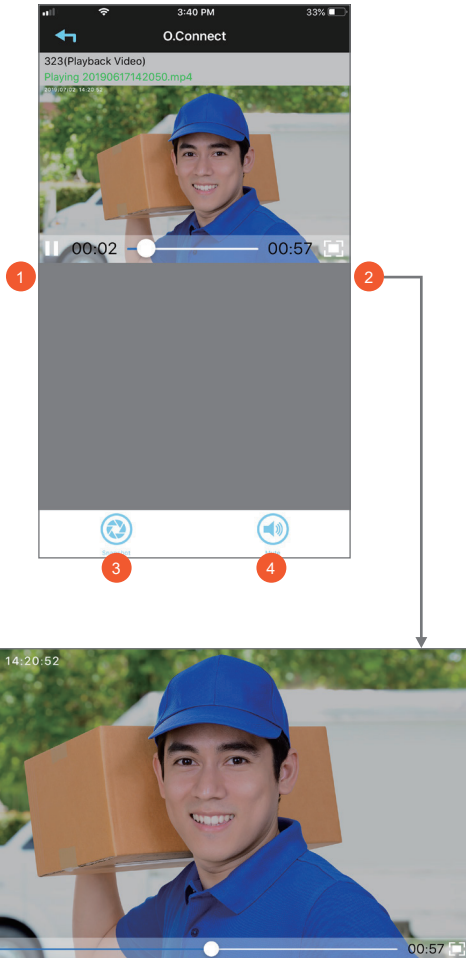
# APP ADVANCED SETTINGS

## 1. Wireless Hub Settings
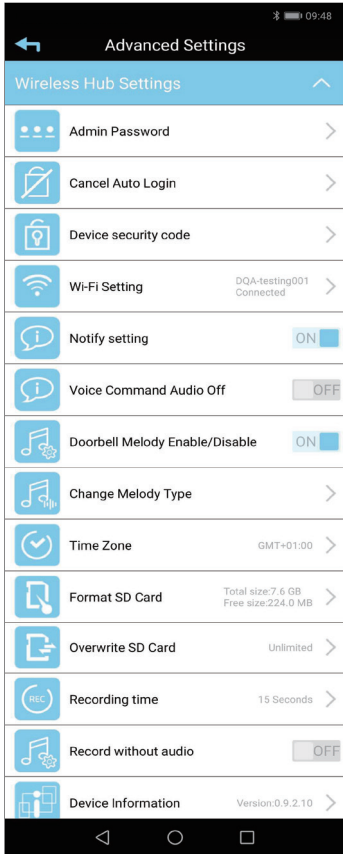
**(1-1) Admin Password**

The Admin Password is a specific security code for administrator to change the advanced settings. The default admin password is 123456.

Please use this function to change the default admin password into your personal admin password. For the protection of your system configuration, every time you change the advanced settings, you need to enter the admin password. Please change the admin password periodically.
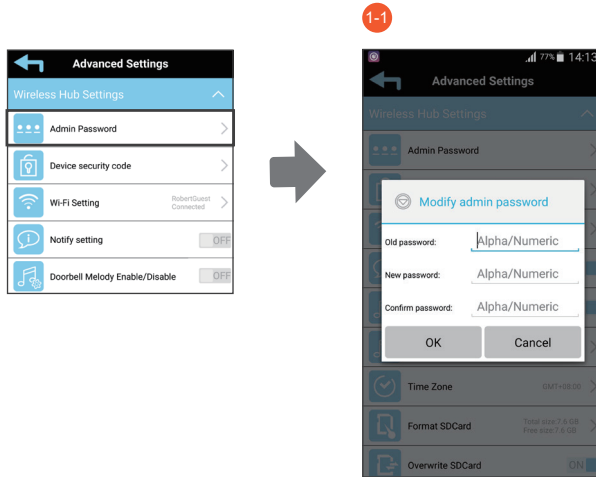


**(1-2) Cancel Auto Login**

Press to enable password to enter advance setting.
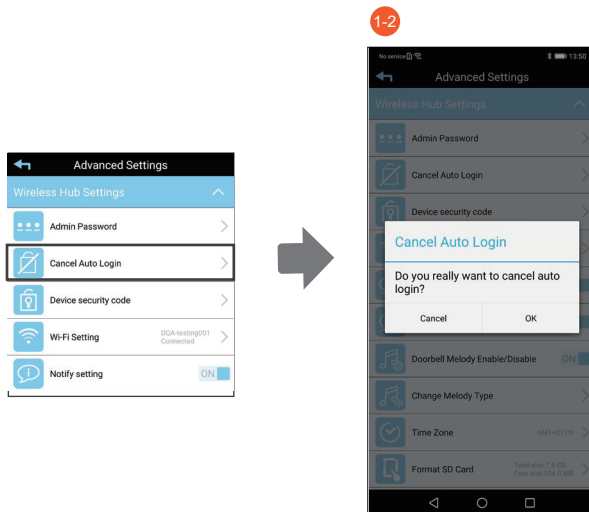
**(1-3) Device Security Code**

The Security Code is a specific security code to access the camera. The default password of the camera is 123456, you can enter character a~z, A~Z, 0~9, "_", "-" with max 31 characters. Please use this function to change the default password into your personal security code.
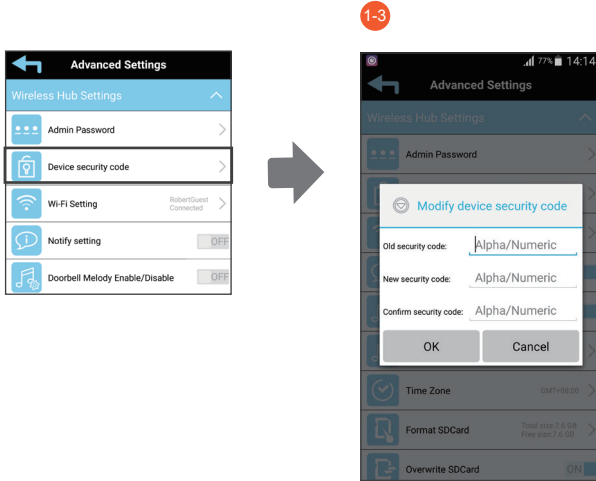


**(1-4) Wi-Fi Setting**

The Wi-Fi setting allows you to choose the wireless connection and setup the Wi-Fi environment.

When you tap the "Manage Wi-Fi network" button, the system automatically scans the nearby network and shows the available Wi-Fi routers in the drop-down list. Choose the appropriate Wi-Fi router and enter the Wi-Fi router password if necessary. Due to security concerns, it is suggested to use the WPA/WPA2/ WPA2-PSK protocol for Wi-Fi network.



24
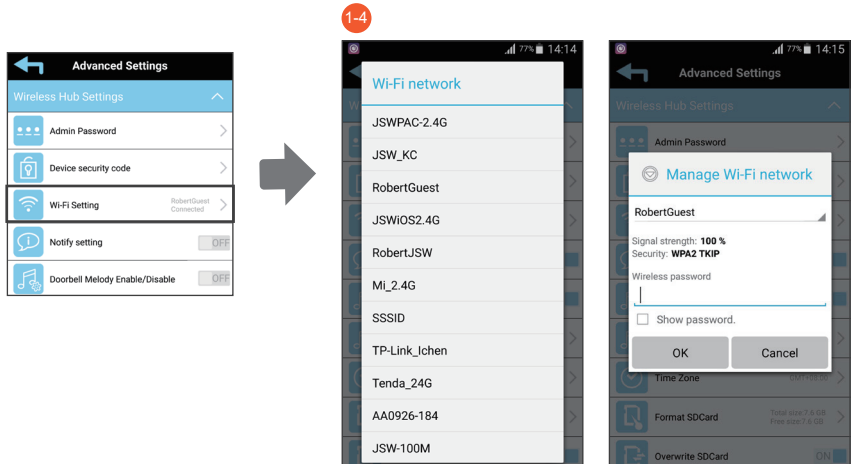
**Note:**
Wireless HUB is ONLY compatible with 2.4GHz, NOT 5GHz router.

**(1-5) Notify Setting**

Enable/ Disable the Notification while there is motion dected or PIR triggered on device.
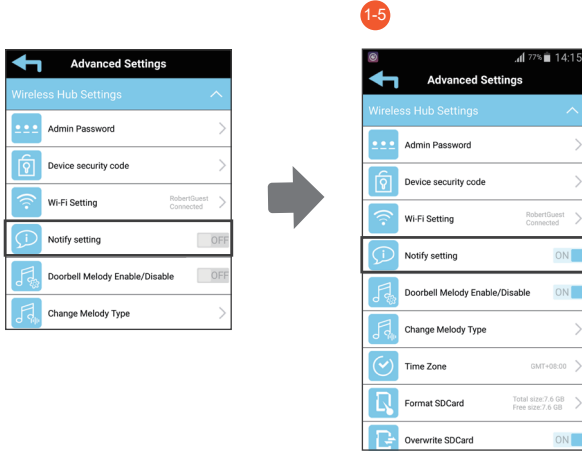


**(1-6) Voice Command Audio Off**

It can turn off the voice prompt in the setup and pairing (Wireless Hub)
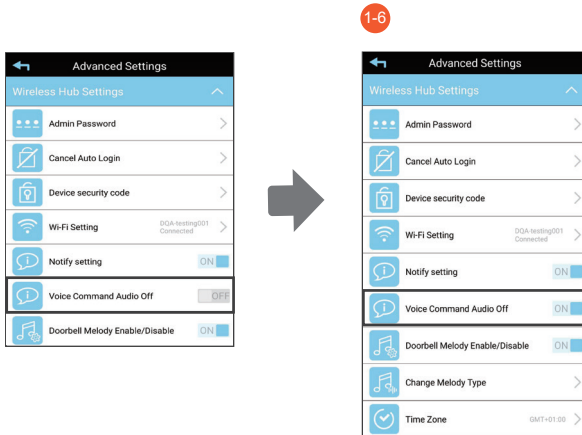
**(1-7) Doorbell Melody Enable/Disable**

Please note this function ONLY supports the Video Door Phone. Battery IP camera is NOT supported.
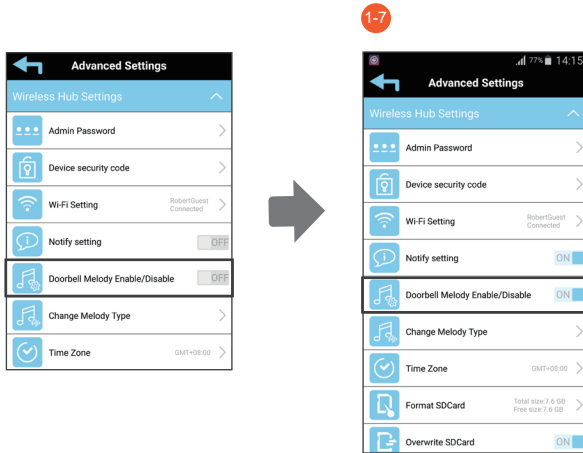


**(1-8) Change Melody Type**

There are 3 types of ringtone for your selection. the wireless hub will play each ringtone while you tap this function. please note this ringtone will only play while you enable melody and the call key be pressed on the Video Door Phone.
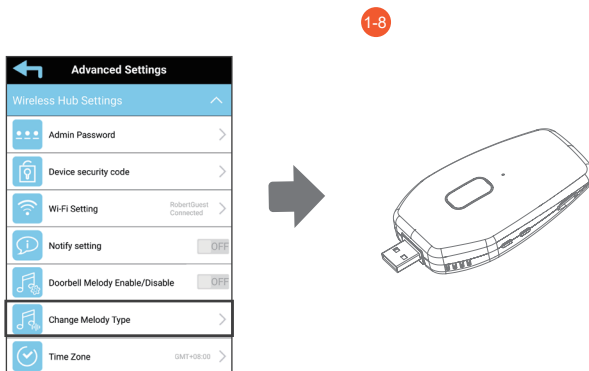


**Note:**
Please note this function ONLY supports the Video Door Phone. Battery IP camera is NOT supported.

**(1-9) Time Zone**

The drop-down list shows the world time zone. Select the time zone that will work the best for you.

If your date/time is during the daylight saving time period, please check the Daylight Saving box to adjust the system time properly.
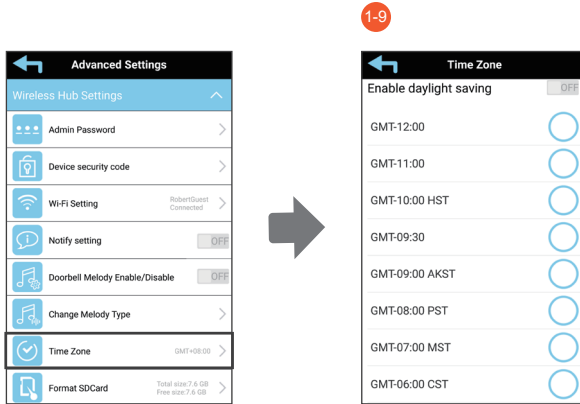


**(1-10) Format SD Card**

This function allows you to format your SD card. Please always format your SD card before using it. Class 10 SD card with better R/W speed is recommended.
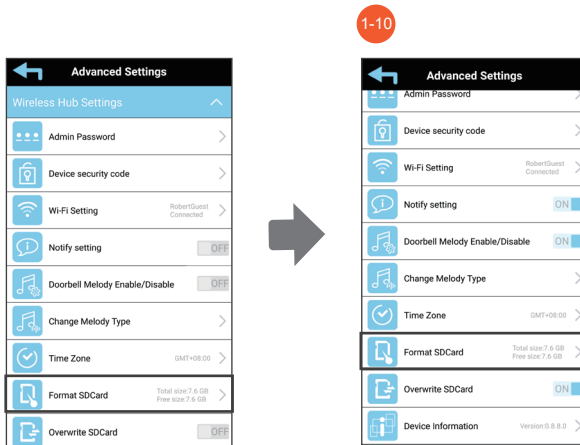


**Note:**

Formatting will erase all the recorded video clips in your SD card. Please make sure you have made copied of all the files in SD card before formatting.

**(1-11) Overwrite SD Card**

This function will overwrite the oldest files when the micro memory card is full. Turning on this function will enable the system to start overwriting the old files when the available memory card capacity is not enough. This ensures the most up to date video recordings can be saved so that you won't miss any important information.

1-11

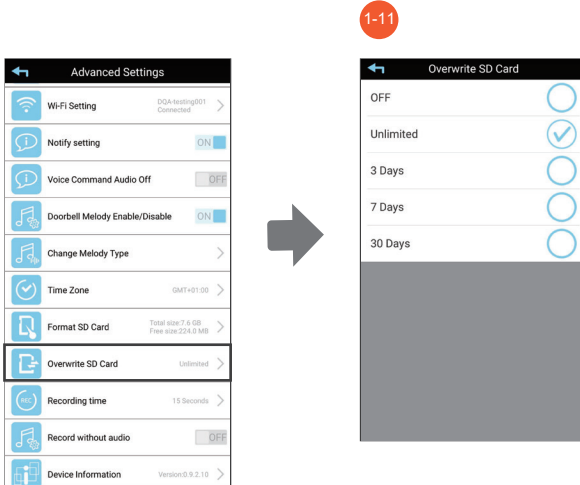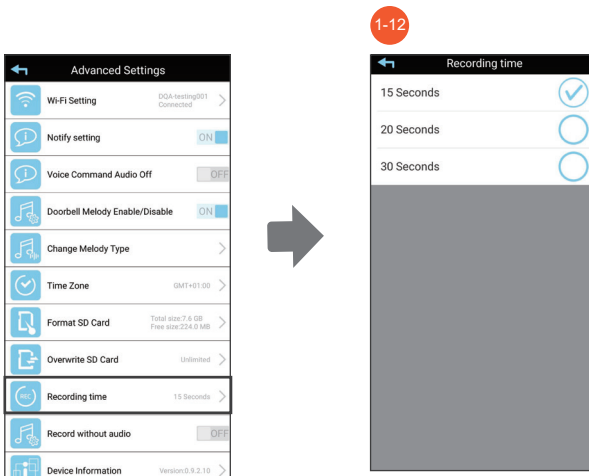| Advanced Settings | |
|---|---|
| Wi-Fi Setting | DQA-testing001 Connected > |
| Notify setting | ON |
| Voice Command Audio Off | OFF |
| Doorbell Melody Enable/Disable | ON |
| Change Melody Type | > |
| Time Zone | GMT+01:00 > |
| Format SD Card | Total size:7.6 GB Free size:224.0 MB > |
| Overwrite SD Card | Unlimited > |
| Recording time | 15 Seconds > |
| Record without audio | OFF |
| Device Information | Version:0.9.2.10 > |

| Overwrite SD Card | |
|---|---|
| OFF | ◯ |
| Unlimited | ✓ |
| 3 Days | ◯ |
| 7 Days | ◯ |
| 30 Days | ◯ |

**(1-12) Recording time**

There are three durations: 15 sec,20 sec & 30 sec.

1-12

| Advanced Settings | |
|---|---|
| Wi-Fi Setting | DQA-testing001 Connected > |
| Notify setting | ON |
| Voice Command Audio Off | OFF |
| Doorbell Melody Enable/Disable | ON |
| Change Melody Type | > |
| Time Zone | GMT+01:00 > |
| Format SD Card | Total size:7.6 GB Free size:224.0 MB > |
| Overwrite SD Card | Unlimited > |
| Recording time | 15 Seconds > |
| Record without audio | OFF |
| Device Information | Version:0.9.3.10 > |

| Recording time | |
|---|---|
| 15 Seconds | ✓ |
| 20 Seconds | ◯ |
| 30 Seconds | ◯ |

**(1-13) Record without audio**

This function would allow you to make video only recording (without audio).
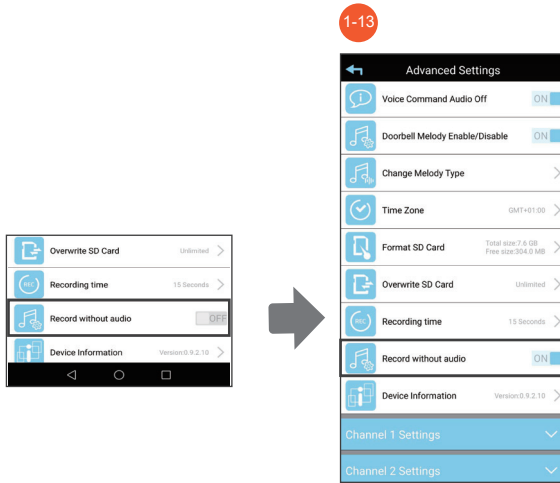


**(1-14) Device Information**

This section shows the device information about the including device version, total size and available size of the memory card.
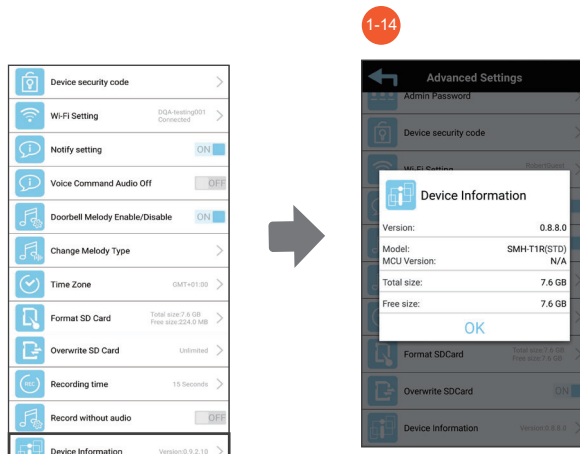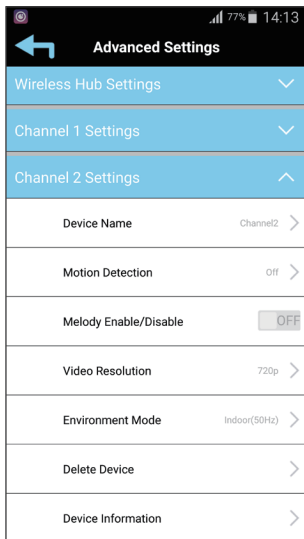
# 2. Channel 2 Settings (Door Station)



2

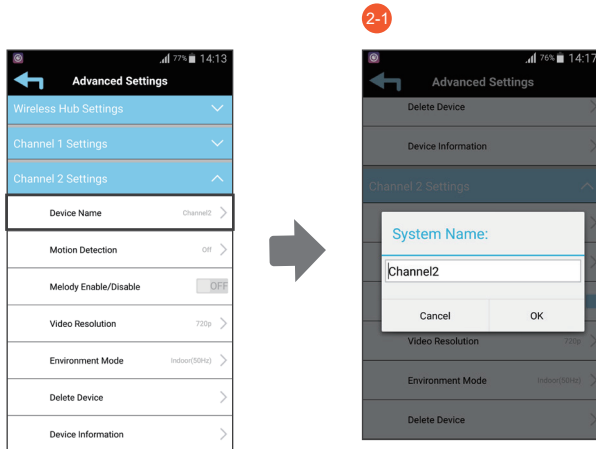| | |
|---|---|
| **Advanced Settings** | 77% 14:13 |
| Wireless Hub Settings | ∨ |
| Channel 1 Settings | ∨ |
| Channel 2 Settings | ∧ |
| Device Name | Channel2 > |
| Motion Detection | Off > |
| Melody Enable/Disable | OFF |
| Video Resolution | 720p > |
| Environment Mode | Indoor(50Hz) > |
| Delete Device | > |
| Device Information | > |

**(2-1) Device Name**

This function allows you to name your own device which is set up in your place.



**(2-2) Motion Detection**

The device comes with motion detection by the PIR sensor. You are able to enable/disable PIR detection.
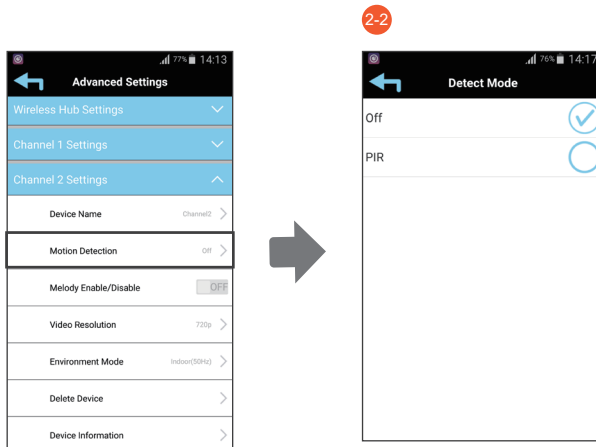


> **Note:**
> PIR detecting results are influenced by some particular factors, ex working environment temperature, sunlight reflection, etc.

**(2-3) Melody Enable/Disable**

The Video Door Phone will play the melody when the call key is pressed. This function allows you to enable/ disable the ringtone. the push notification will still deliver to the mobile device even the melody function is disabled.
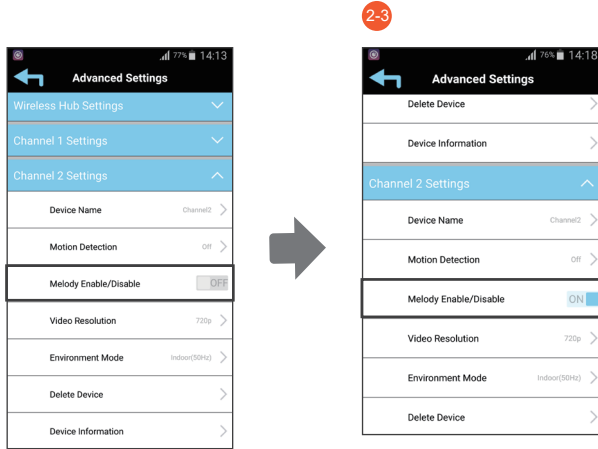


**(2-4) Video Resolution**

There are three resolutions for your selection, VGA (640 x 480), 720p (1280 x 720) and 1080p (1920 x 1080). Please select appropriate video resolution according to the network bandwidth you are using. the higher resolution video stream requires a better bandwidth network.
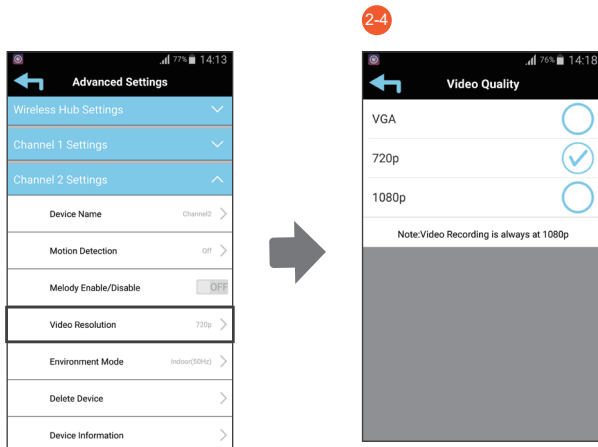
**(2-5) Environment Mode**

    There are 3 options for the place you hook up the device. Indoor(50Hz), Indoor(60Hz) and Outdoor. please select the correct option according to your household electricity frequency in order to avoid the video flicking when you set up the device indoor.
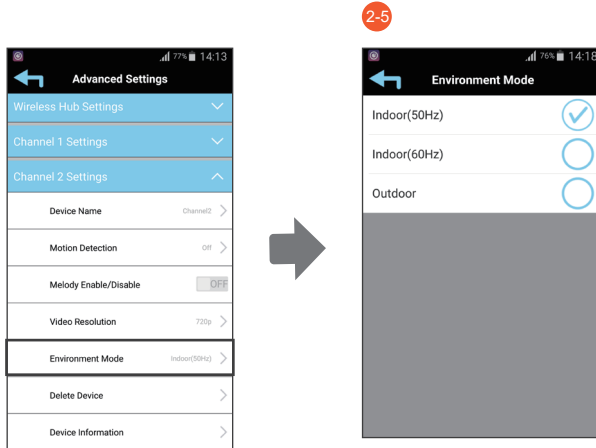


**(2-6) Delete Device**

    This function allows you to delete the device which is paired with your wireless HUB.
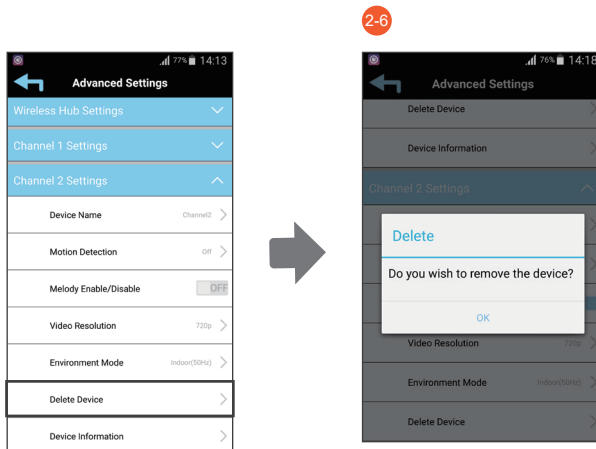


**Note:**
One Wireless Hub only supports Max. 2 devices be paired. If you have 2 Devices be paired please delete/ remove one of them before adding a new device.

**(Please follow the steps and recheck it in case the hub in the advanced setting is delected accidentally)**

1. Press and hold the pair button for 3 seconds. Wireless Hub will enter to pairing mode. You will hear a voice prompt "Waiting for Device Pairing". The LED status light will quicky flash.

2. Press and hold the pair button for 3 seconds, The Video Door Phone will enter pairing mode and the LED status indicator will quickly flash.

3. Once pairing complted, you will hear a voice prompt "Device Pairing Successful". The wireless hub status indicator will turn to solid light.
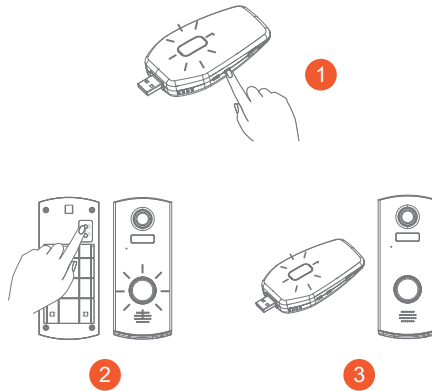


**(2-7) Device Information**

This section shows the IP cameras FW Version, Total capacity and Available Capacity of SD card.
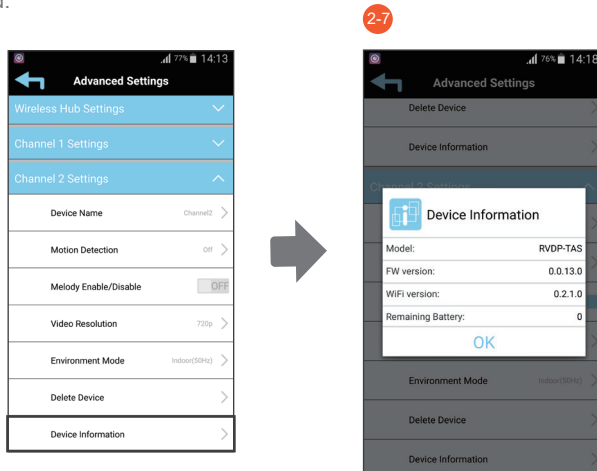
# PRODUCTION SPECIFICATION

| Wireless Hub | |
|---|---|
| | |
| Wireless Connectivity | Wi-Fi 802.11b/g/n (2.4GHz) |
| Transmission Range | Up to 150 Meters (LoS) |
| Door Bell Melody | 3 Selectable from APP |
| Data Storage | Micro SD Card up to 128GB (class10) |
| Power Option | USB 5V |
| Operating Temperature | -22°F/-10°C ~ 122°F/50°C |
| **Door Station** | |
| | |
| Wireless Connectivity 1 | Wi-Fi 2.4GHz |
| Transmission Range | Up to 150 Meters (LoS) |
| Two-Way Audio | Support |
| One-Way Video | Yes |
| Push Notification | Yes / iOS and Android |
| Night Vision | Full Color Night Vision |
| View Angle | Field of view 130° |
| Audio Input/output | Speaker & Microphone |
| Video Resolution | 1080p / 720p / VGA |
| Video FPS | Up To 15 FPS |
| Motion Detection Features | Smart Detection (PIR Detection + Motion Detection) |
| IP Rating | IP55 |
| Power Option | 5000mAh Built-in battery with Micro USB power charge |
| Battery Life | 6 months (Calculated based on 4 visitor per day @30 sec operation per event)<br>Battery life will vary based on device settings,usage, and environmental factors.<br>Actual results may vary. |
| Battery Charge Time | 4 hours |
| Accessories | Micro USB charging cable, Installation Hard ware and QSG |
| Operating Temperature | -22°F/-10°C ~ 122°F/50°C |