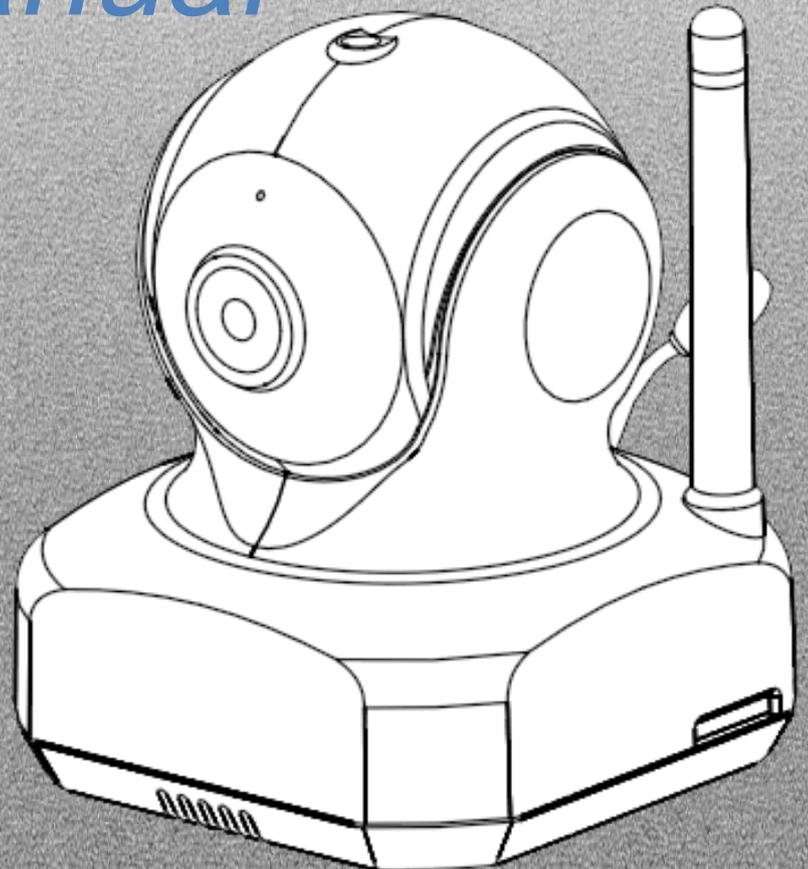


IoT RF

HC8301/HC8301A

User's Manual



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Wherever you go, everything is under control.

The IoT camera connects with your smart phone or tablet anytime, anywhere via wireless technology. It's great for store surveillance, office and home safety. Keep a watchful eye on your children, elders, and pets.

1. Before you start, please prepare:

1. Smart Phone / Tablet
2. IoT Camera
3. Wireless Router

2. Network Connection:

2.1 Download APP "AllCam":

Search the keyword "AllCam" in Google Play/Apple Store or scan the QR Code below. Please download it and install it on your smart phone/tablet.

2.2 Power Supply:

1. Connect the power supply to IoT camera and plug it into the power outlet. LED on IoT camera will turn red. Please wait 15 seconds for the startup test.
When the LED flashes green and orange, and camera's head moves for positioning, the camera will be in AP mode.

2.3 First Time Setup:

1 Connecting to the Camera with Wi-Fi Access Point mode:

On your smart phone/ tablet, access your “Settings” and under “Wireless & Networks” click “Wi-Fi” (Pic.1). Find “AllCam-XX:XX:XX:XX:XX:XX” and connect to it. The default password is “**12345678**”.

2 Adding camera to Application(APP):

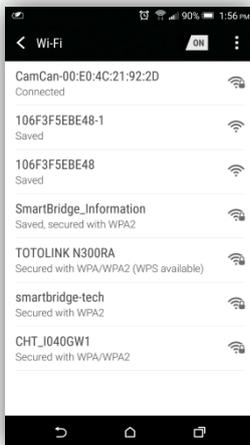
Open “AllCam” and it will show the message “**Do you want to connect to Wi-Fi Router**” (Pic.2); if you have a Wi-Fi router connected to the internet, please select “Yes”.

If not, please select “Cancel”; the camera will connect to your smart phone/tablet directly; but you cannot use our system out of the camera’s wireless area.

Turning IoT camera into client mode:

When it displays a “Configuration–Wireless” screen (Pic.3), select the Wi-Fi router you want to use and enter your Wi-Fi router’s password. Wait 30~40 seconds, when the LED turns to green, the setup was successful. Now, the camera will appear on “Camera List” page.

Pic.1



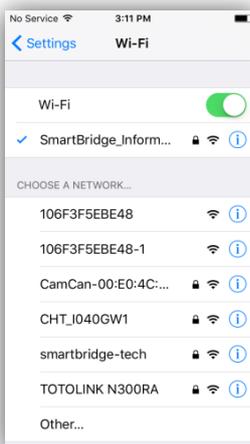
Pic.2



Pic.3



Android



iOS



Notice:

1. Wi-Fi SSID is the name of your Wi-Fi router.
2. Make sure your smart phone/tablet and IoT camera are connected to the same Wi-Fi Router
3. If you entered wrong SSID password, the IoT camera will “Beep” twice. Please close the application and try again.
4. If the APP does not show “Do you want to connect to Wi-Fi Router?” please follow process **2.4** (P. 7).

2.4 Add Camera

2.4.1 Adding a New IoT Camera under the Same Wi-Fi Router.

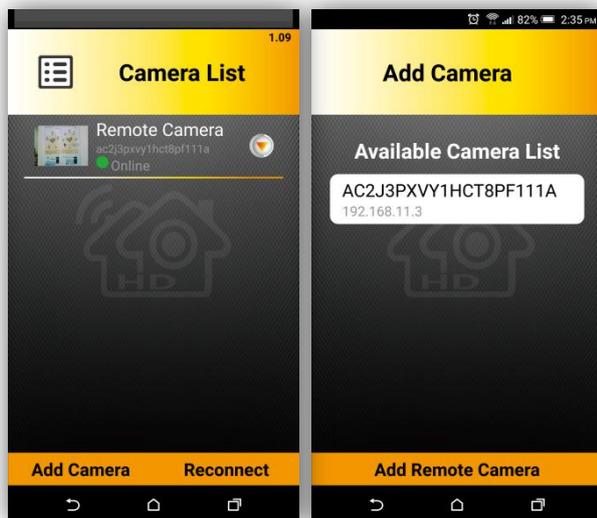
1. Use your Smart phone/Tablet and connect to your Wi-Fi router.
2. Run “AllCam”.

Please choose “Add Camera” under “Camera List” page.

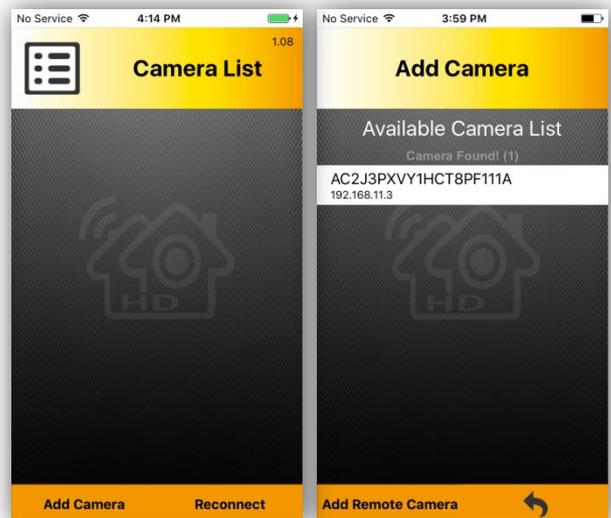
APP will scan the network to find all available IoT cameras. You may choose cameras listed in black to connect, and grayed-out ones are already connected to the router.

Key-in password and press “√”. APP will add this IoT camera.

The default password is “**admin**”. Please change your password after setup.



Android



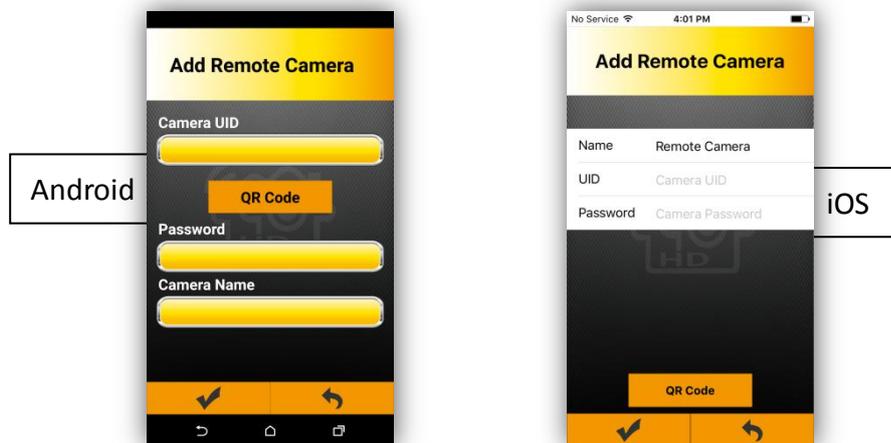
iOS



Notice: If you input the wrong password, please delete this IoT camera. Then APP will ask you to key-in the password again.

2.4.2 Adding a Remote Camera

1. Open "AllCam", click "Add Camera", then click "Add Remote Camera", and please fill 20 characters found beneath the camera, under the barcode into "UID". And type the default password "admin" into "Password".



2.4.3 QR Code to add Remote IoT Camera

1. Please get in to "Add Remote Camera" then click
2. Use your Smart phone/Tablet to scan the QR Code.
3. Please input the password.

This remote IoT camera will be added.



Notice:

1. For security issue, we don't have QR code label printed. You need to make it by yourself.

Please use this website:

<https://www.the-qrcode-generator.com/>

Input the 20 character UID into this website. Then, you can get the QR code picture.

2. The default password is "admin". Please change the password after setup.

2.5 Live View

1. Under “Camera List”, please click on the IoT camera you want to watch.
2. Sliding your finger to touch the area of the live video. You can tilt the IoT camera up and down, or turn the camera left and right.



Android



iOS

3. Please touch the live view and move your two fingers, you can zoom in or zoom out the video. When you turn to landscape; the live view will be full screen.



2.5 Resetting the Camera

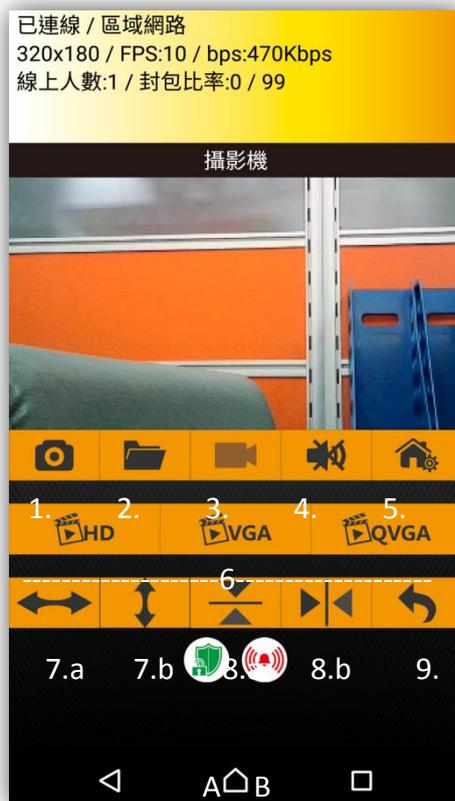
If you forget the password, it will take you about 1 minute to reset to the original settings.

Please follow the process below:

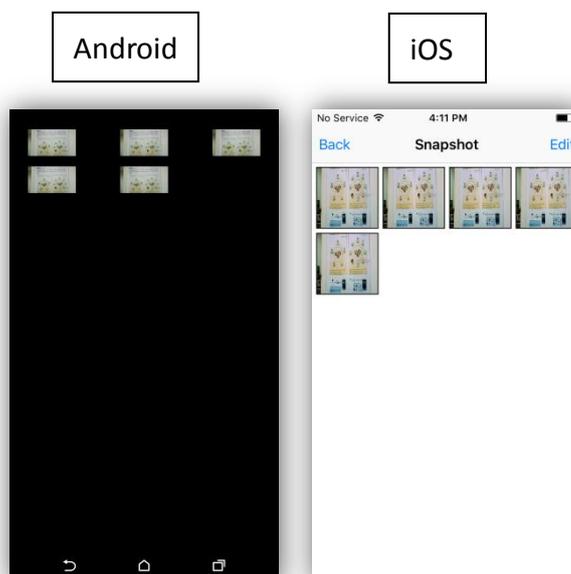
1. Please press the “reset button” for 5 seconds, and it will “beep” three times.
2. System will reset immediately.
3. Follow the step at **P5 (2.3)**

3. Operation:

3.1 Live View:



1. Snapshot.
2. Snapshot Folder. (Picture below)
3. Video Record (*Must to have SD card inserted.)
4. Two-way Audio: Mute, Listen, and Speak.
5. IoT Devices
6. Resolution of Live View.
7. Cruise Mode (7.a pan left-right, 7.b tilt up-down.)
8. Mirror for Live View (8.a up-down inverse, 8.b left-right inverse.)
9. Return to Previous Screen
 - A. All system alarms On/Off (Green = ON, Red = OFF)
 - B. Alarm sounds On/Off(Green = ON, Red = OFF)



3.2 Camera Settings:

When you need to configure any camera, please click the “⌵” button on the right side of your camera to get into “Camera Settings”.



01. Camera Name

Modify IoT Camera name.

02. Delete Camera

Delete IoT Camera from Camera List.

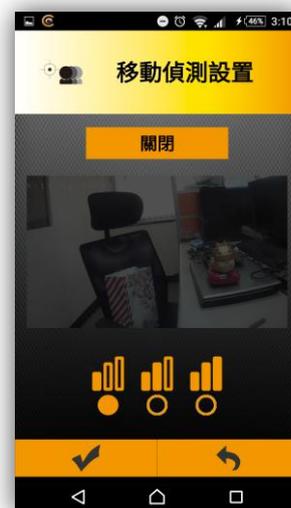
03. Event Viewer

Check all events log from Motion Detection, Vox Detection and IoT Devices alerts.

04. Motion Detection

When Motion Detection is triggered, the IoT Camera will record a video (*must have SD card inserted). It will also take a snapshot and send it to your email if you have email settings properly configured. You will also get a push notification on your phone/tablet.

1. “Enable” on motion detection.
2. Drag your finger to set the area of motion detection.
3. Email Settings. Please check your email settings in SMTP function.



05. Video Setting / Configuration - Video

Power Frequency : 50Hz、60Hz。 (Please check your country to know 50Hz or 60Hz.)

Video Resolution : QVGA(320X180), VGA(640X360), HD (1280X720).

HD - H.264 Bit Rate : 2Mbps, 1.5Mbps, 1Mbps.

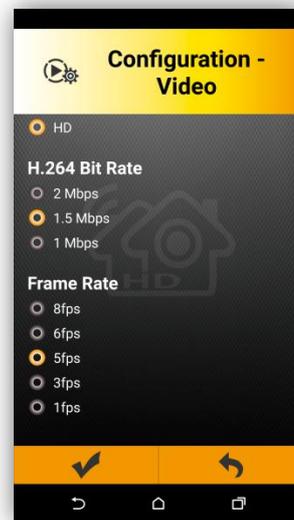
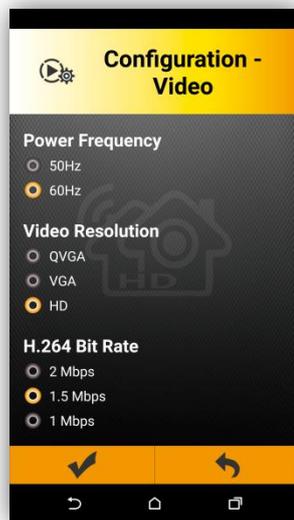
HD - Video Frame Rate : 8fps, 6fps, 5fps, 3fps, 1fps

VGA - H.264 Bit Rate : 1Mbps.

VGA - Video Frame Rate : 15fps,12fps,10fps,8fps,6fps, 5fps, 3fps

QVGA - H.264 Bit Rate : 512Kbps, 256 Kbps, 192Kbps.

QVGA - Video Frame Rate : 30fps, 25fps, 20fps, 15fps, 10fps, 5fps



06. Camera Password / Configuration - Password



Modify/Change password.

Old: Enter your old password here, the default password is “**admin**”.

New: Enter your new password here.

Confirm: Re-enter your password to confirm.

07. Email Settings

Gmail

SMTP Server Name: smtp.gmail.com

Port Number: 465

SMTP Account: Your Gmail. XXX@gmail.com

SMTP Password: Your Gmail Password

Receiver Email: Who will receive this mail

Security Type = SSL/TLS

Yahoo

SMTP Server Name: smtp.gmail.com

Port Number: 465

SMTP Account: Your Yahoo mail. XXX@yahoo.com

SMTP Password: Your Yahoo mail Password

Receiver Email: Who will receive this mail

Security Type = SSL



Notice: SMTP mail might be spam mail. Please set SMTP mail as reliable mail.

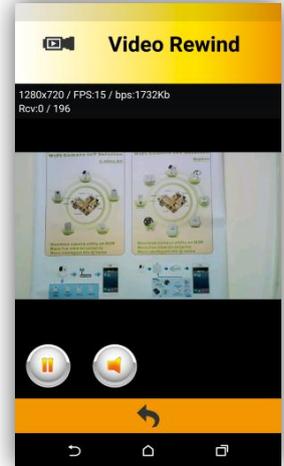
08. SD Safety Remove

 Please use this function before removing the SD card to protect your data on the SD card.

09. Video Playback

You can playback your videos on the SD card.

1. Play / Pause.Sound On/Off.



3.3 RF Device Pairing and Configuration

3.3.1 IoT Devices:

Our system can be paired with 8 of each sensor. (Currently, the maximum is 9 different sensors; so 72 total available pairings.)

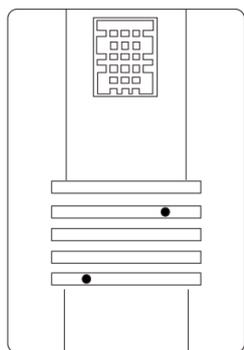
1. In Live View, please click the  icon. To enter IoT Devices.



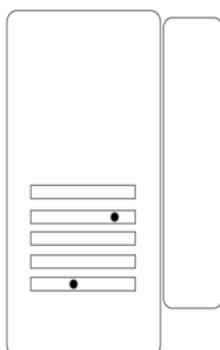
2. If sensors are successfully paired, you will see the sensors on the IoT Device list. If it was not successful, you will receive a pop-up message that reads “Timeout”.
3. Click “Remove all”. The camera will delete **all** currently paired RF sensors.



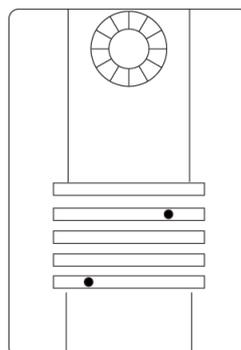
3.3.2 RF Devices:



Thermal/Humidity Sensor



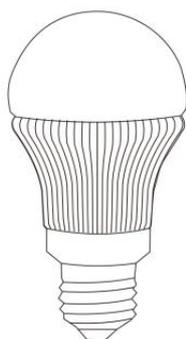
Door/Window Sensor



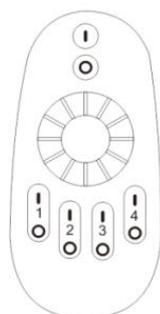
PIR Sensor



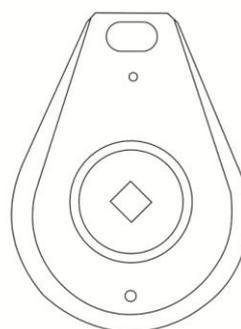
Smart Plug



LED Bulb



LED Bulb Control

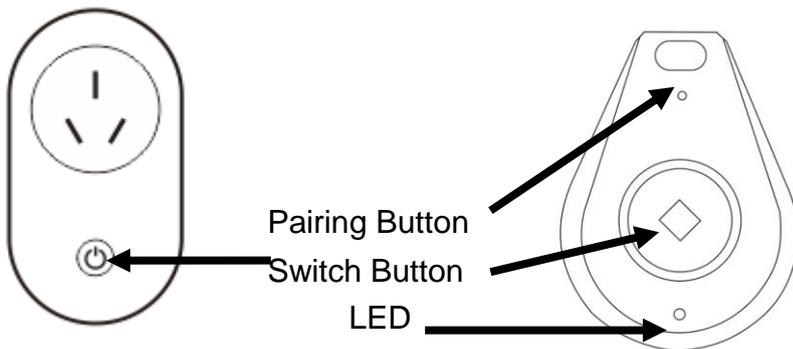
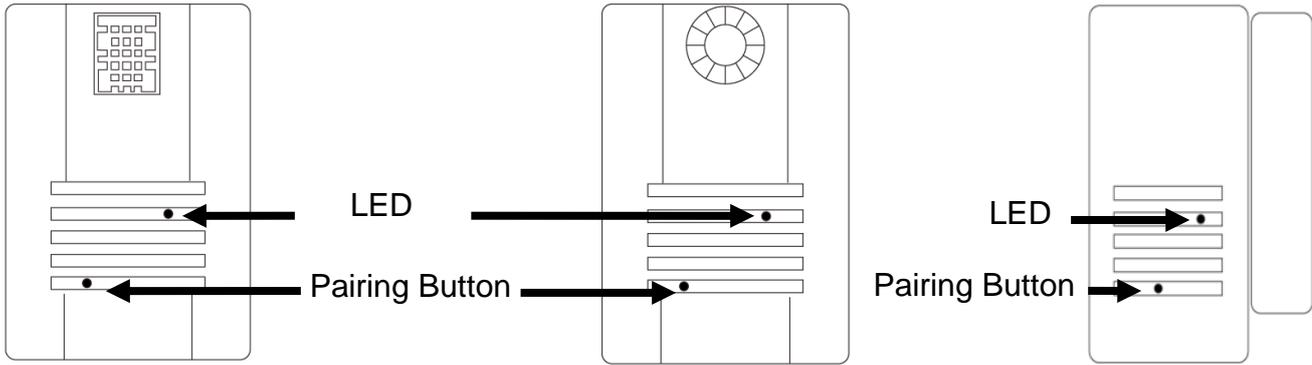


Beacon

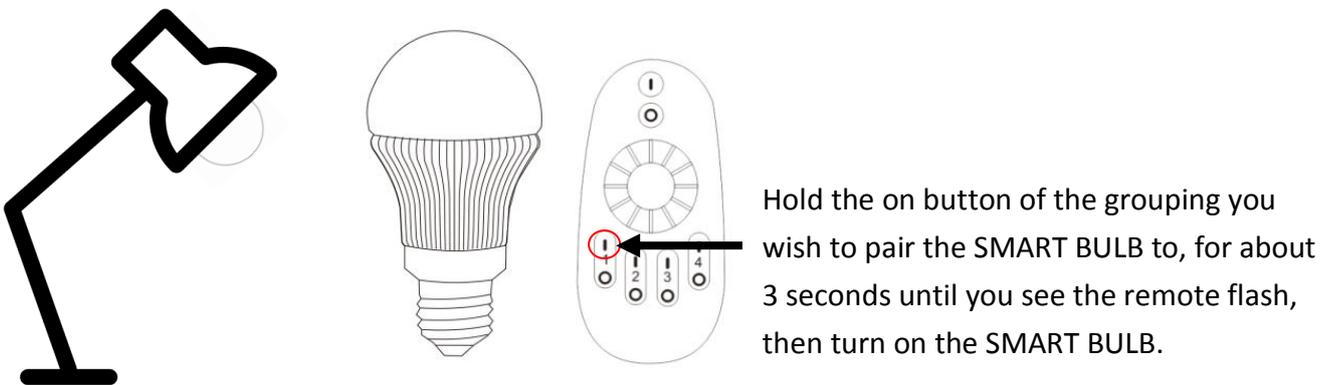
3.3.3 Pairing RF Device

Please place RF Sensors **within 2 meters** of the camera. Click “Pair” on the APP, the camera will start pairing and run for around 60 seconds. Then, insert a pin into “Pairing Button” for at least **two seconds**. After releasing the button, if the LED lights up constantly for 3 seconds, the pairing is successful; after that, you will see your sensors on “IoT Devices” list. If not, please check to see if the batteries are properly secured, and try again. When batteries are low, our system will send a push message alert.

You can place the sensors/devices in your desired locations after pairing.



Turn the LED Bulb into the Lampholder. The first five seconds is for pairing remote control. Next five seconds is for pairing IoT Camera.



3.4 RF Device Configuration

3.4.1 PIR Sensor Configuration

On the IoT Devices page; click on “PIR” device.

- Unit: device number. It will start from “0”.
- Nickname: name for device.
Click ***Set*** to save.
- Alarm:
 - Enable: Enable PIR alarm system. (ON)
 - Disable: Disable PIR alarm system. (OFF)



- Locate:
Please slide your finger to assign a location where you want the camera to point to when the PIR alarm is triggered; the camera will automatically turn to the location you assigned when the PIR alarm is triggered. To operate just slide your finger like in Live View. After setup, please click the “**Locate**” button. The system will save your location setting.

3.4.2 Door/Window Sensor Configuration

On the IoT Devices page; click on “Door Open Detector”.

- Unit: device number. It will start from “0”.
- Nickname: name for device.
Click ***Set*** to save.
- Alarm:
 - Enable: Enable detector’s alarm system. (ON)
 - Disable: Disable detector’s alarm system. (OFF)



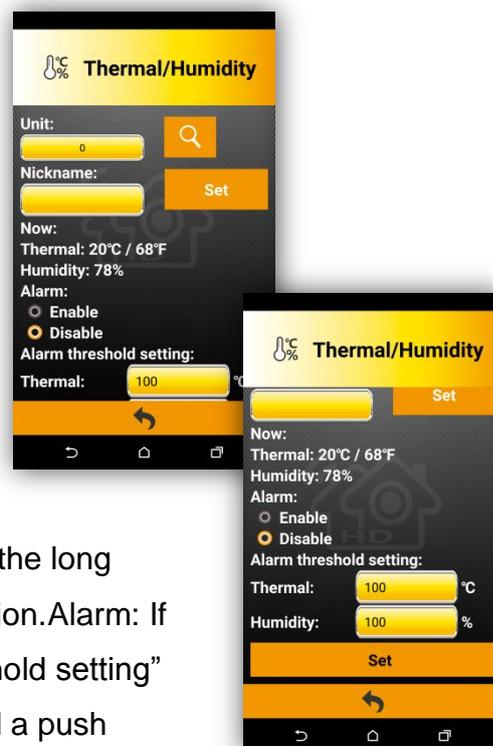
- Locate:

Please slide your finger to assign a location where you want the camera to point to when the alarm is triggered; the camera will automatically turn to the location you assigned when the alarm is triggered. To operate just slide your finger like in Live View. After setup, please click the “**Locate**” button. The system will save your location setting.

3.4.3 Thermal/Humidity Sensor Configuration

On the IoT Devices page; click on “Thermal/Humidity”.

- Unit: device number. It will start from “0”.
- Nickname: name for device.
Click ***Set*** to save.
- Control:
 - Enable: enable sensor’s alarm system. (ON)
 - Disable: disable sensor’s alarm system. (OFF)
 - After entering the threshold settings, please press the long “**Set**” button in **black** to save all threshold information. Alarm: If the temperature or humidity is above “Alarm threshold setting” you set. The system will sound the alarm and send a push message to your smart phone/tablet.



3.4.4 Smart Plug Configuration

On the IoT Devices page; click on “Smart Plug”.

- Unit: device number. It will start from “0”.
- Nickname: name of Smart Plug device.
Click *Set* to save
- Control:
 - On: Turn Smart Plug power ON.
 - Off: Turn Smart Plug power OFF.

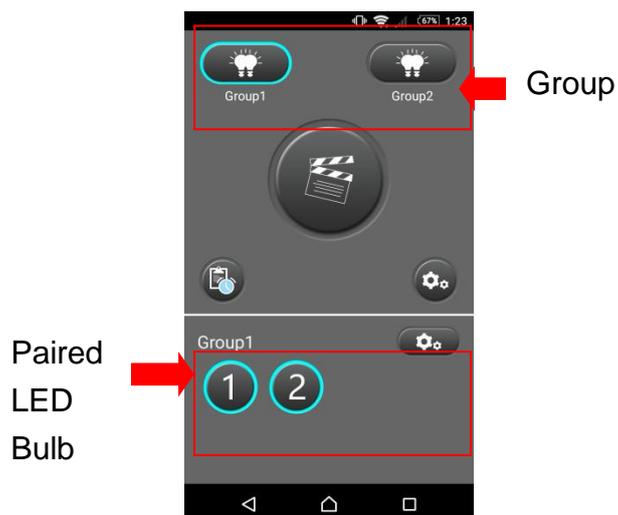


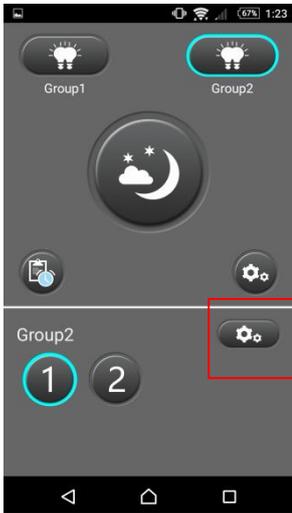
3.4.5 Beacon

On the IoT Devices page; click on “Smart Plug”.

3.4.6 LED Bulb

LED Bulb can “Group” different LED bulb to help the control more easier.

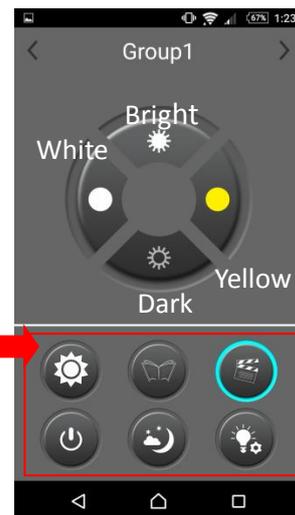




APP can setup two group, please choose the LED Bulb you need.
Press set button to complete.

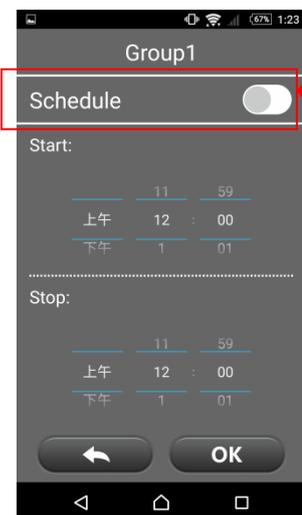
Set Button

Choose different mode you need.



Situation Mode

Setup the timing you need.



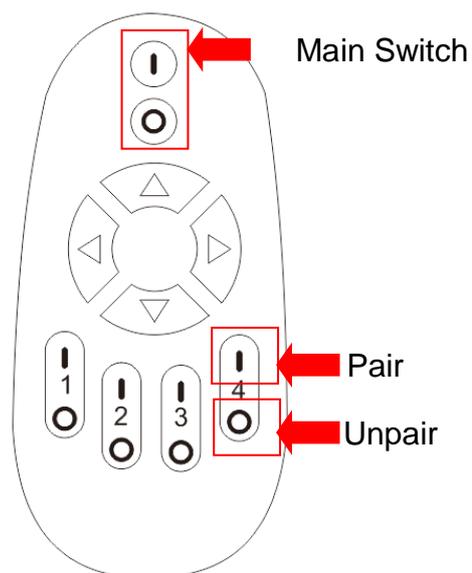
Schedule On/Off

3.4.6 LED Bulb Control

LED Bulb Control can individually control the LED Bulb.

Hold the on button of the grouping you wish to pair for about 3 seconds until you see the remote flash, then turn on the SMART BULB.

LED Bulb will flash in yellow if the pairing success.



The top I/O is main switch. I/O below are different 4 group. Every LED Bulb Control can pair 16 LED Bulbs. Each group can group 0-16 LED Bulbs as you wish.

4. FAQ

When I want to watch Live View, but the APP could not connect to the IoT camera:

- Does your IoT camera have power? Please check to see if the power adaptor is connected.
- Do you see a constant green light from the IoT camera's LED?
- Is your smart phone/tablet connected to the internet or home Wi-Fi router?

5. Maintenance and Service

- Please keep children away from all parts and accessories.
- Fingerprints or dirt on lens have an adverse effects on picture quality, avoid touching the lens' surface.
- If the lens is dirty, wipe the lens with a clean, soft cloth.
- Keep the IoT camera dry and away from precipitation, humidity, and other liquids containing minerals will erode the circuits.
- Please do not use in dusty, dirty areas.
- Please avoid dropping the camera, the impact will damage both the enclosure and the circuits.
- Do not put it in high-temperature areas. High temperature can shorten of the lifespan of the electronic components and lead to deformation or melting of certain parts
- Do not put in ultra-low temperature areas. When the temperature warms back up and moisture is formed inside the enclosure, it may cause damage to the circuit board.
- Do not open the enclosure.
- Do not overload the power outlets or extension cords, it will be an electric shock or fire hazard.