Z-Wave Home Gateway™

FG3200/FG2200

(Z-Wave® Home gateway)

User's Manual

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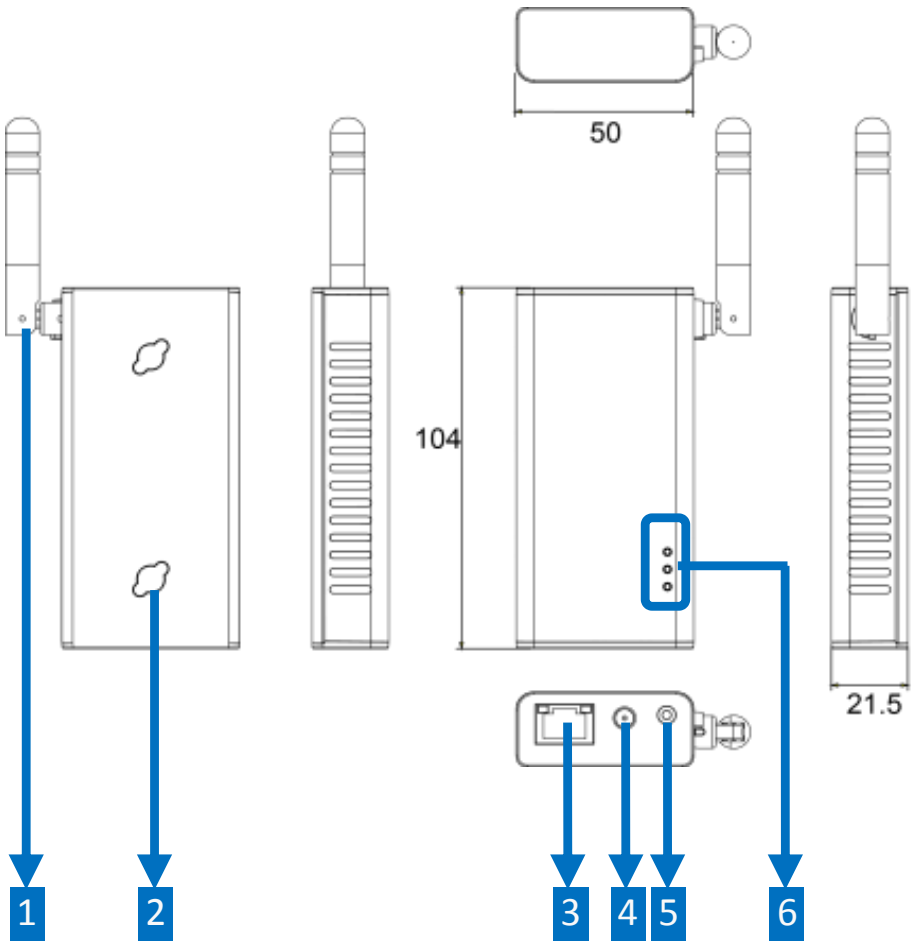
Introduce

This gateway is a Z-Wave® enabled controller and security enabled Z-Wave plus product. Z-Wave® enabled devices displaying the Z-Wave® logo can also be used with it regardless of the manufacturer, and ours can also be used in other manufacture's Z-Wave® enabled networks.
All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.
Our Z-Wave® Home Gateway is designed to connect and communicate multi Z-Wave devices. Feature packed, tiny and powerful Z-Wave® home gateway to communicate. Monitor and control your home remotely from anywhere in the world using a mobile phone or tablet PC. Enhanced expansion capability plus stylish appearance, the Home Gateway series are the most versatile accessories to the Z-Wave® users.

Product Description and Specification



Item	Description
1 Antenna	2.4GHz Wi-Fi (Only FG3200)
2 Wall Mount Hole	Mounts the device to the wall
3 RJ45 port	Connects to an Ethernet
4 DC-in jack	Connects to the power adapter
5 Reset	Restores to the default settings
6 LED	Power (Red); LAN / WAN (Green); Z-Wave® (Blue)

Specification		
Core	CPU Clock Rate	400MHz
	DDR2 SDRAM	64M Bytes
	Flash	8M Bytes
Wireless -Only FG3200	Wi-Fi Standard	IEEE 802.11 b/g/n Wireless Local Area Networks
	Wi-Fi Frequency Range	2.4G~2.5GHz
	Measured Data Rates	1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps in 802.11b Modes
		6Mbps, 36Mbps, 48Mbps, 54Mbps in 802.11g Modes
		MCS0~MCS7 in both HT20 and HT40 in 802.11n Modes (up to 150Mbps)
	Measured	2.412, 2.442, 2472GHz in 802.11 b/g and 802.11n HT20

	Channels	modes
		2.422, 2.437, 2.452, in 802.11n HT40 mode
Ethernet	Interface	RJ-45
	Standard	IEEE 802.3
	Speed	10/100Mbps
	LAN	For Bridge or Wireless ISP Mode
	WAN	For Gateway Mode
Z-Wave®	RF Frequency	908.42 MHz (US)
		868.42 MHz(EU)
		922.5 MHz (JP)
	Data Rate	9.6 / 40 / 100 kbit/s
	Output Power	-21…+2.5 dBm
	High Sensitivity (Typical Values)	-99 dBm @9.6 kbit/s
		-97 dBm @40 kbit/s
		-93 dBm @100 kbit/s
LED Indicator Display	Red	Power
	Green	LAN / WAN
	Blue	Z-Wave®
Micro SD Slot (Option)	TF Card	Support up to ver. 2.0 (SDHC)
		Compatible with ver. 3.0 (SDXC)
Power		
DC Jack	Input	5VDC
Power Adapter	Input	AC 100-240V
	Output	DC 5V/2.5A

Power Consumption	Normal Mode	1.70W
Housing		
Physical Properties	Material	ABS (Plastic)
	Dimension	104(L) x 50(W) x 17.5(H) mm
	Weight	64.5g
Working Environment	Operation Temperature	0~60 degree
	Storage Temperature	-20~85 degree
	Relative Humidity	5~90% (Non-condensing)
Compliance	CE, FCC	

Package Contents

- Z-Gate™
- Built-in Antenna
- 5V/2.5A Adapter

Icon and Command Classes

Heat(Sensor)		Luminance	
Smoke		Power	
CO2		Humidity	
Water		PM25	
Tamper		Distance	
Door Window		Ultraviolet	
Motion		CO	
General		Alarm Heat	
Air temperature		Siren	
Non Support Notification			

Gateway Z-Wave Support Command Classes

COMMAND_CLASS_ZWAVEPLUS_INFO	V2
COMMAND_CLASS_VERSION	V2
COMMAND_CLASS_MANUFACTURER_SPECIFIC	V1
COMMAND_CLASS_DEVICE_RESET_LOCALLY	V1
COMMAND_CLASS_ASSOCIATION	V2
COMMAND_CLASS_ASSOCIATION_GROUP_INFORMATION	V1
COMMAND_CLASS_APPLICATION_STATUS	V1
COMMAND_CLASS_CRC_16_ENCAP	V1
COMMAND_CLASS_POWERLEVEL	V1
COMMAND_CLASS_SECURITY	V1

Gateway Z-Wave Controlled Command Classes:

COMMAND_CLASS_ZWAVEPLUS_INFO	V2
COMMAND_CLASS_ASSOCIATION	V2
COMMAND_CLASS_ASSOCIATION_GROUP_INFORMATION	V1
COMMAND_CLASS_BASIC	V1
COMMAND_CLASS_BATTERY	V1
COMMAND_CLASS_SWITCH_BINARY	V1
COMMAND_CLASS_SENSOR_BINARY	V2
COMMAND_CLASS_CONFIGURATION	V1
COMMAND_CLASS_CRC_16_ENCAP	V1
COMMAND_CLASS_MANUFACTURER_SPECIFIC	V1
COMMAND_CLASS_METER	V4
COMMAND_CLASS_MULTI_CHANNEL	V4
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION	V3
COMMAND_CLASS_SENSOR_MULTILEVEL	V5
COMMAND_CLASS_SWITCH_MULTILEVEL	V1
COMMAND_CLASS_NOTIFICATION	V4
COMMAND_CLASS_NO_OPERATION	V1
COMMAND_CLASS_SECURITY	V1

COMMAND_CLASS_VERSION	V2
COMMAND_CLASS_WAKE_UP	V2

If FG3200/FG2200 controller receives a Basic command, it will ignore the command.

Z- Wave's Groups (Association Command Class Version 2)

The gateway will send DEVICE_RESET_LOCALLY_NOTIFICATION to associated Z-Wave devices when it is reset or factory-reset.
It supports 1 association group which supports only one (maximum) associated node.
Group 1 support command DEVICE_RESET_LOCALLY_NOTIFICATION of COMMAND_CLASS_DEVICE_RESET_LOCALLY.
This only group supports

Connection:

1. Android APP Download

1. Turn on any QR code APP on your mobile phone to scan QR code below to automatically download and install the application.

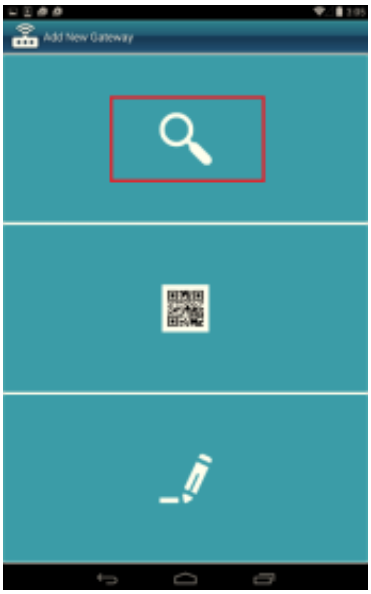
For Android

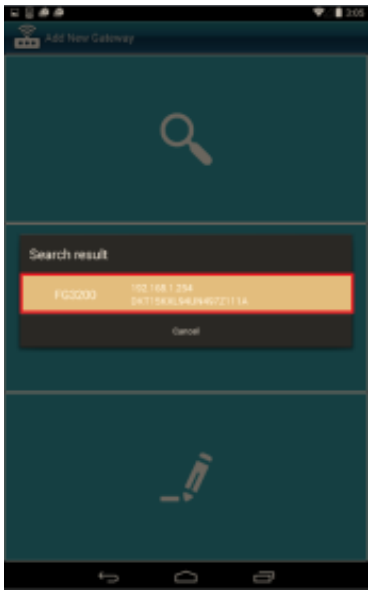
2. The APP is called “Z-Butler”. When the application is activated, it will automatically search Z-Wave Home Gateway IP address. The login account is ***admin***, and the password is ***1234***. The user can modify the account and password in the settings section after logged in.

NOTE:
Before using APP, please activate the Wi-Fi function of mobile device. The device should be able to locate the network ***FG3200/FG2200***, please input the default password ***89191200***, and make sure it is successfully connected.

2. Add Gateway

1. Start Z-Butler app. Follow the instruction to Add New Gateway. You can search gateway signal.
2. Click the pop-up gateway information bar.
3. Setup name, account and password. Account and password default as "***admin***"/ "***1234***".



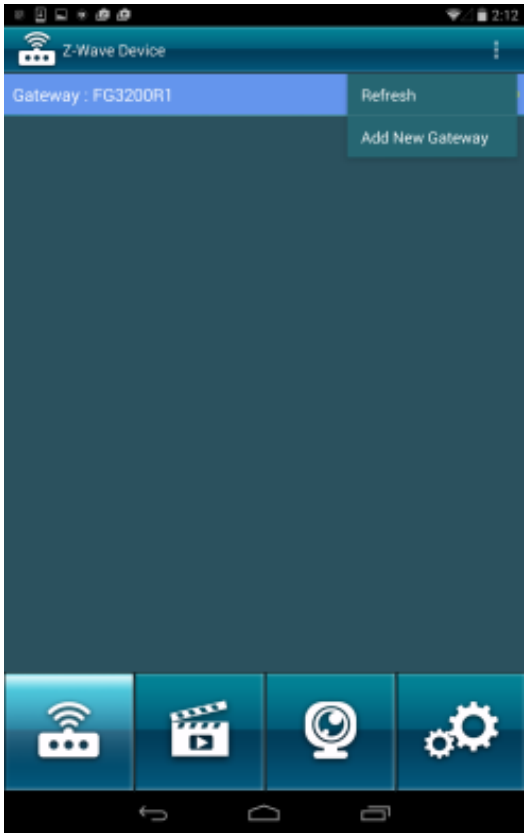


3. Dashboard

Enter Home page when Gateway is connected, Home page shows Dashboard, Device, Setting Scenarios, IP Camera, Settings, total 4 sections.

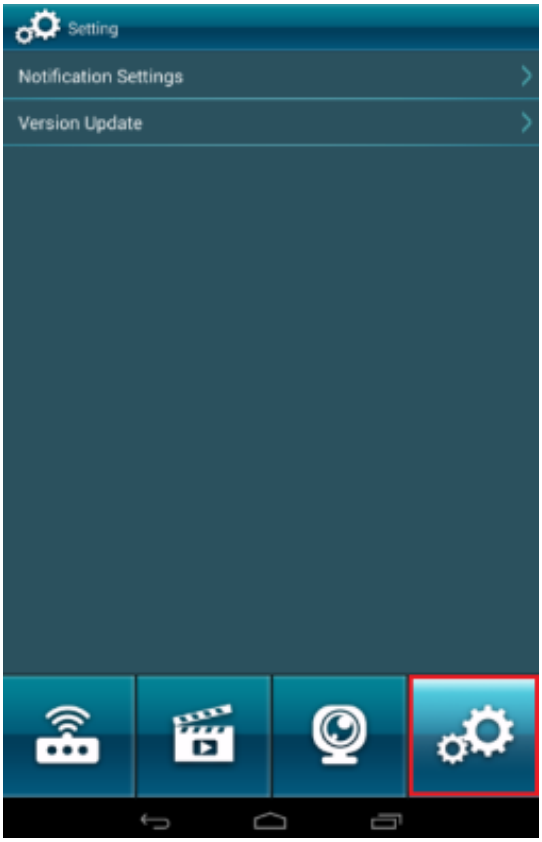
4. Edit

On Homepage, top center shows connected Gateway, click top right corner Refresh/Add Gateway.



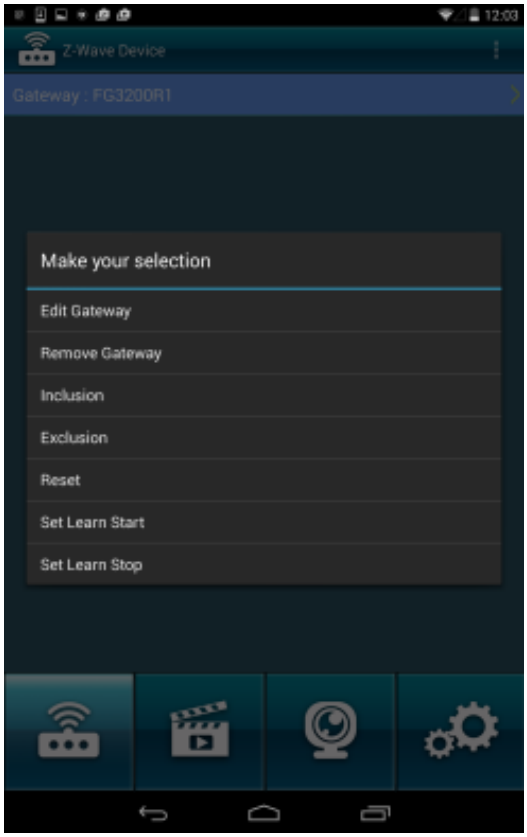
5. Setting pages

Including “Notification Settings”, ”Version Update”.



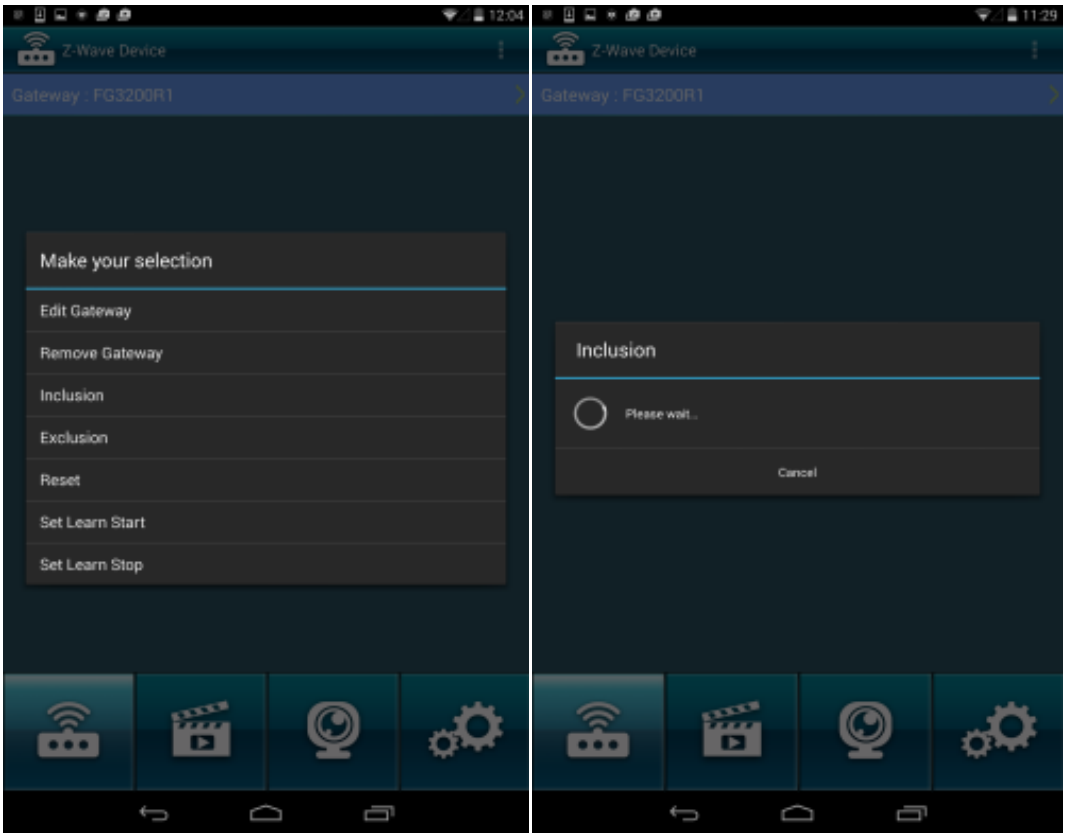
5.1 Gateway Management

Including “Edit Gateway”, ”Remove Gateway”, ”Inclusion”, ”Exclusion”, ”Reset”, ”Set learn Start”, ”Set learn Stop”.



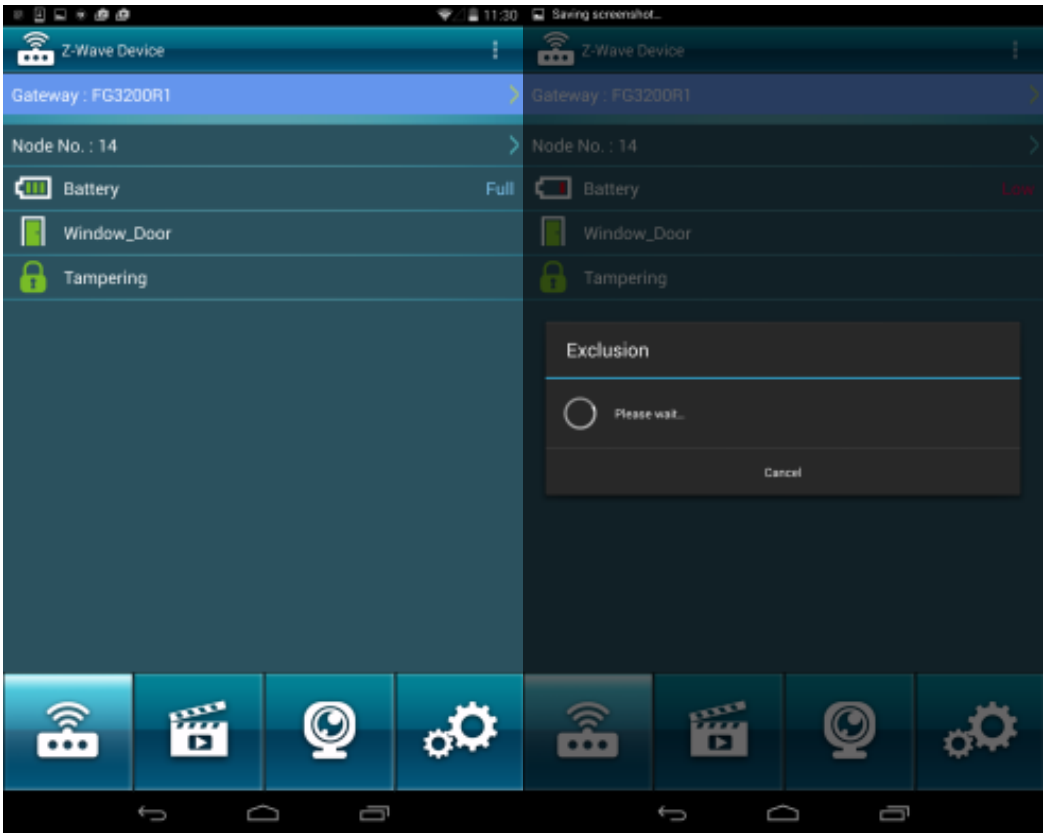
5.1.1 ADD(Inclusion)

Ensure Gateway is connected, enter device page and click “Inclusion” to include devices. After the inclusion show window is finished, you can view the device at the device interface.



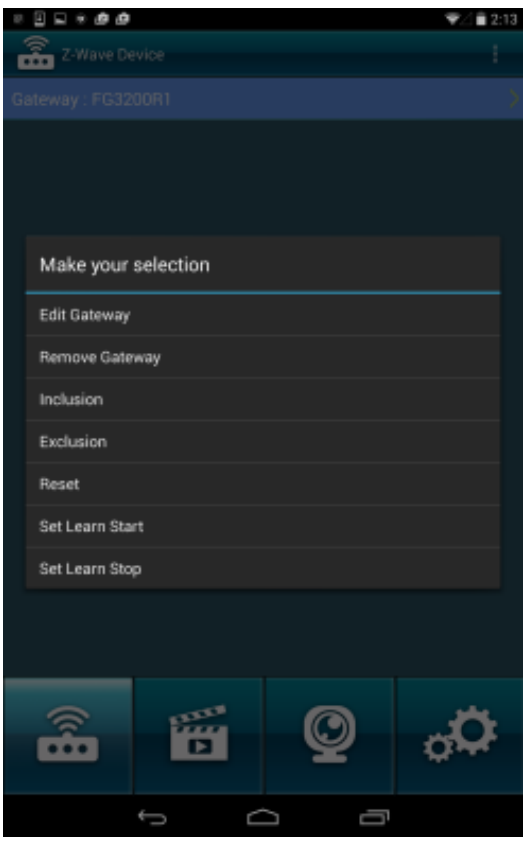
5.1.2 Remove(Exclusion)

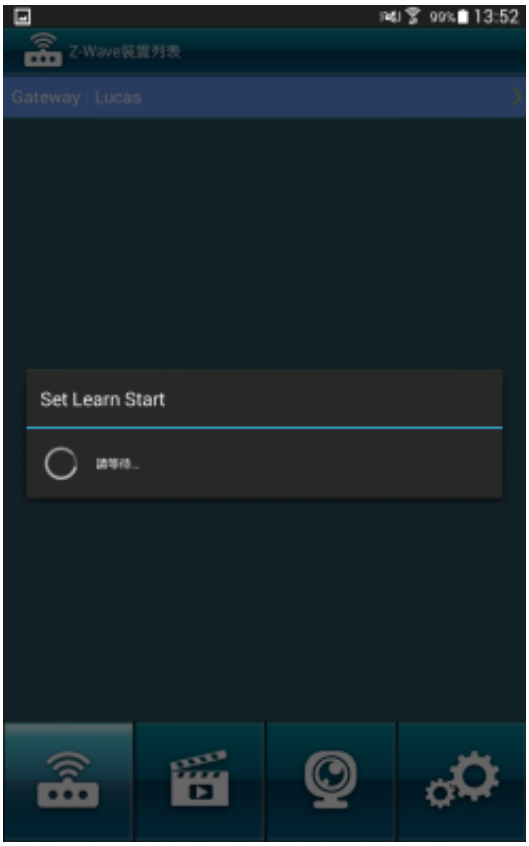
Ensure Gateway is connected, enter device page and click “Exclusion” to exclude devices. After the exclusion show window is finished, you can view the device is remove from the device interface.

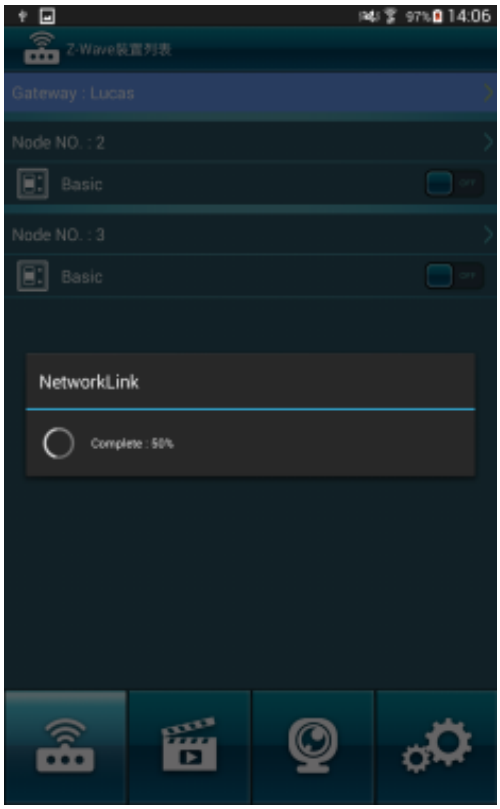


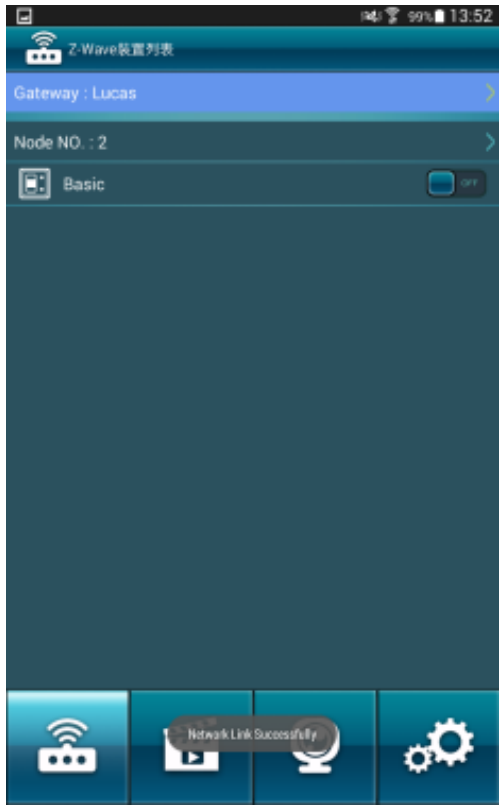
5.1.3 Learn Mode

Ensure the Gateway not include any device or Reset the Gateway. You can review and control the device for learned Gateway. Into the Learn Mode, show “Processing…”, operate another Controller into add device mode, after the completion of the study to be prompted to add success. When you need initiate a replication of network information from the controller to another controller or want to receive network information, please enter "include" and "learn mode".





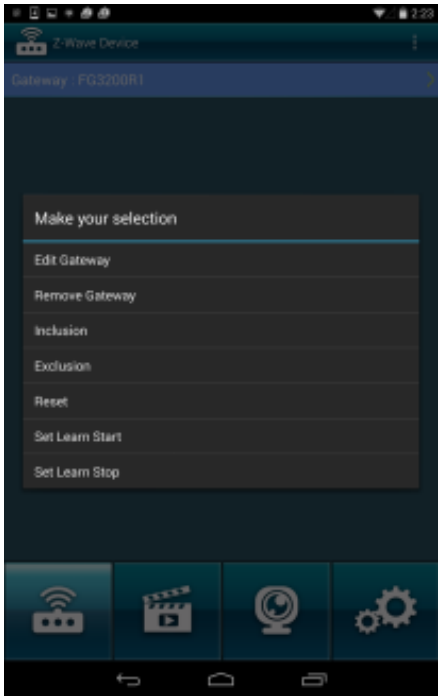

14:06
Z-Wave裝置列表
Gateway : Lucas
Node NO. : 2
Basic
Node NO. : 3
Basic
NetworkLink
Complete : 50%

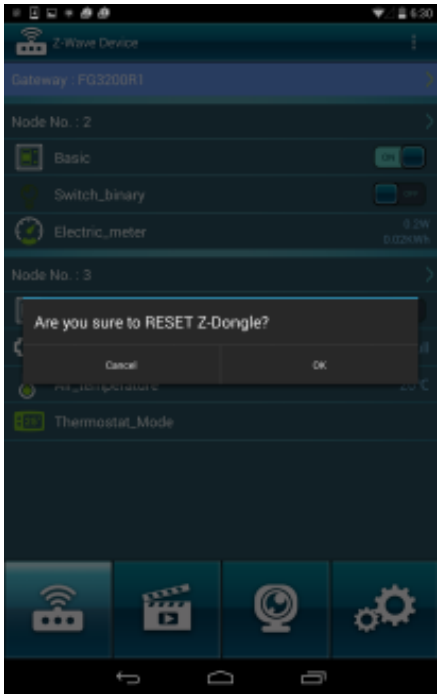

13:52
Z-Wave裝置列表
Gateway : Lucas
Node NO. : 2
Basic
Network Link Successfully

14:47
Z-Wave Device
Gateway : Lucas
Device including process fails. Please remove the device from the Z-Wave network, and try to include the device again.

5.1.4 Reset

Click “Reset”, show “Are you sure to reset Z-Dongle?”and click OK to reset the Z-Wave network.





5.1.5 Factory Reset:

FG3200/FG2200 Reset button 10 seconds after the reset to reset the factory default

* If this controller is the primary controller for your network, resetting it will result in the nodes in your network being orphaned and it will be necessary after the reset to exclude and re-include all of the nodes in the network. If this controller is being used as a secondary controller in the network, use this procedure to reset this controller only in the event that the network primary controller is missing or otherwise inoperable.

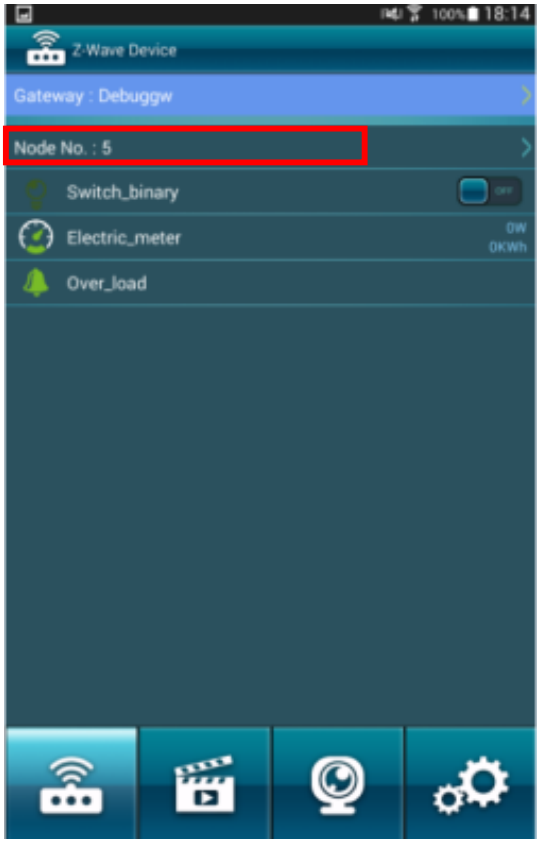
6. Device page

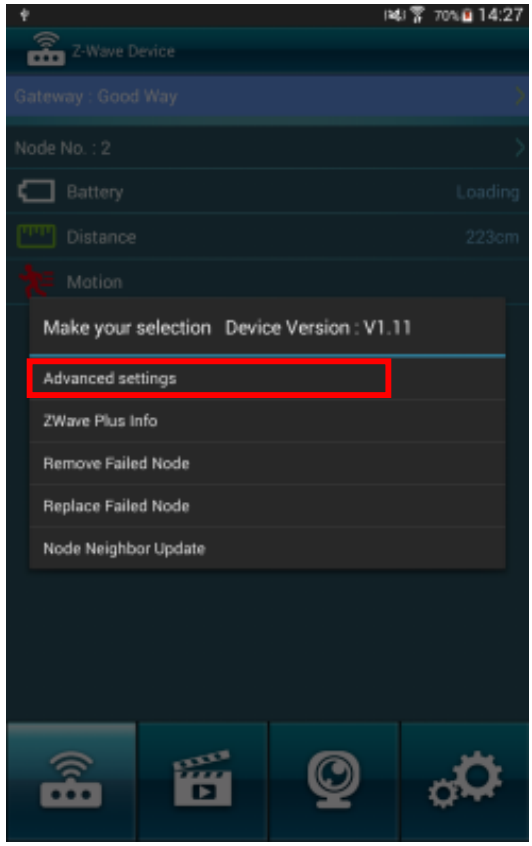
Will show the trigger device and related device icon on the device page. You can also get the information of property for each device from this page.

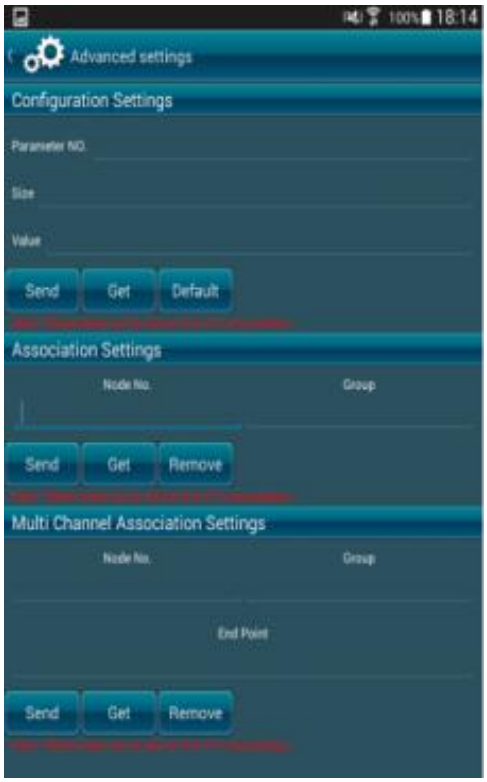
You can click the node number “>” to show the device node settings:
“Advanced settings”, ”Remove Failed Node”, ”Node Neighbor Update”, ”Replace Failed Node” as attached photo.

Click the Basic icon will get the current state of the Device.

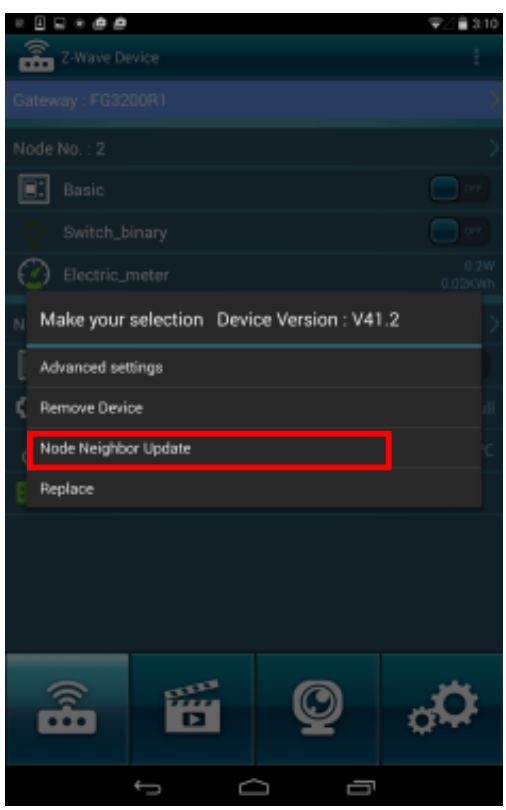
Press Node number bar then select advanced stings and will show the Configurations and Association







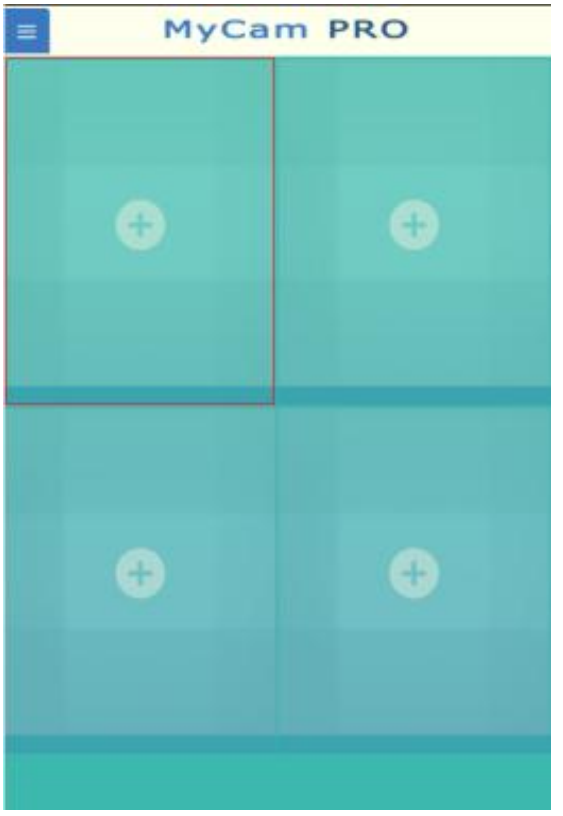
6.1 The Network Rediscovery



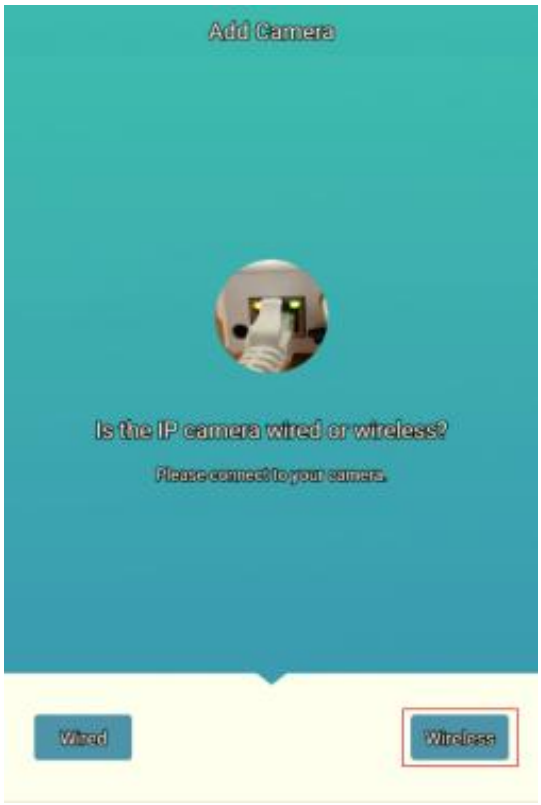
7. ADD IP Camera

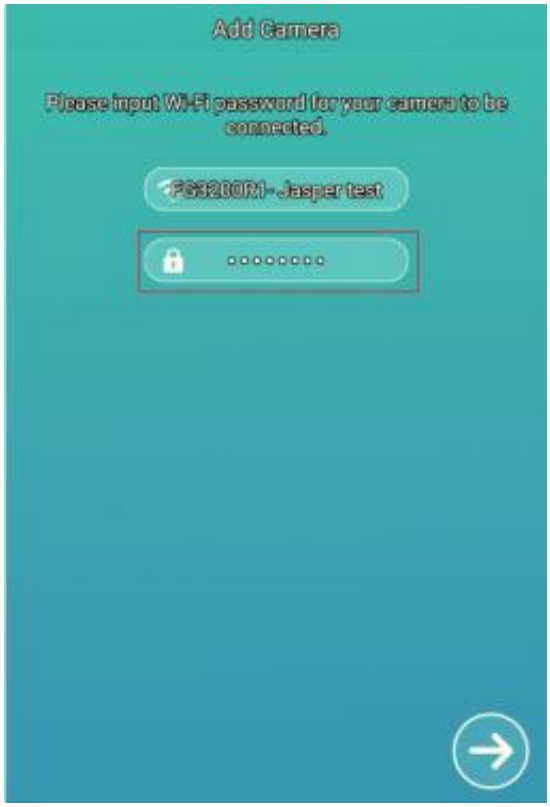
First, please download the APP MyCamPro, and ensure Gateway is connected.

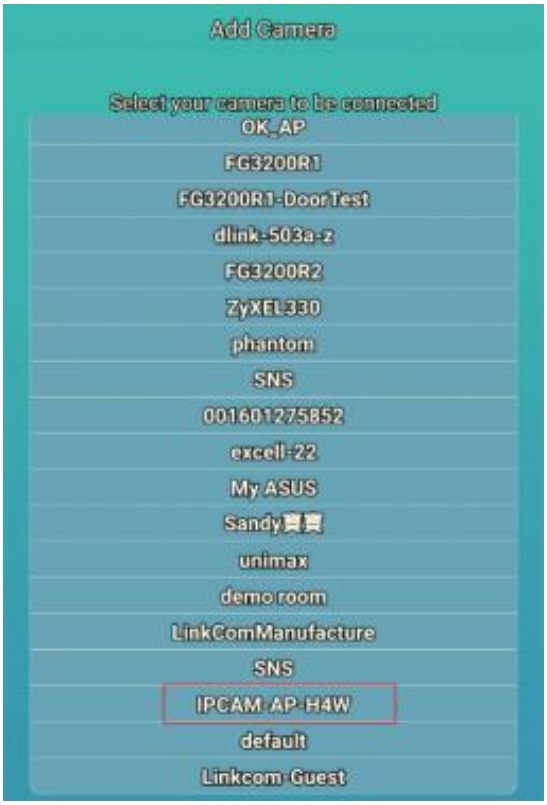
1. Execute MyCamPro and click the “skip”.
2. Click the “+” .
3. Click the “Add manually”.
4. Click the “Wireless”.
5. Please input the default password 89191200 for FG3200/FG2200 and click the next step.
6. Select the connected IPCAM(ex: IPCAM-XX-XXX)
7. Click the “+”.
8. Enter the default password and click “Add”.
9. Click the “live view”.



MyCam Pro
No device on the list.
Please add a device.
Cloud import
Add manually

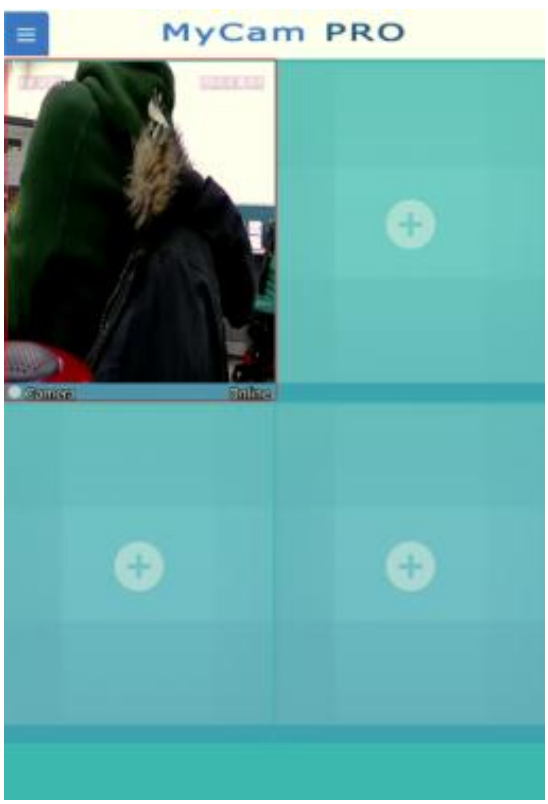

Add Camera
Is the IP camera wired or wireless?
Please connect to your camera.
Wired
Wireless


Add Camera
Please input Wi-Fi password for your camera to be connected.
FG3200R1 - Jasper test
••••••••

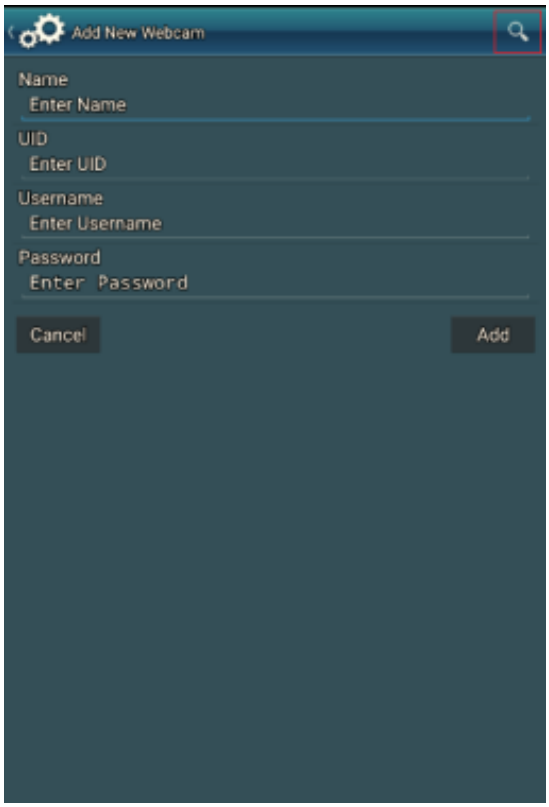

Add Camera
Select your camera to be connected
OK_AP
FG3200R1
FG3200R1-DoorTest
dlink-503a-z
FG3200R2
ZyXEL330
phantom
SNS
001601275852
excell-22
My ASUS
Sandy
unimax
demo room
LinkComManufacture
SNS
IPCAM-AP-H4W
default
Linkcom-Guest

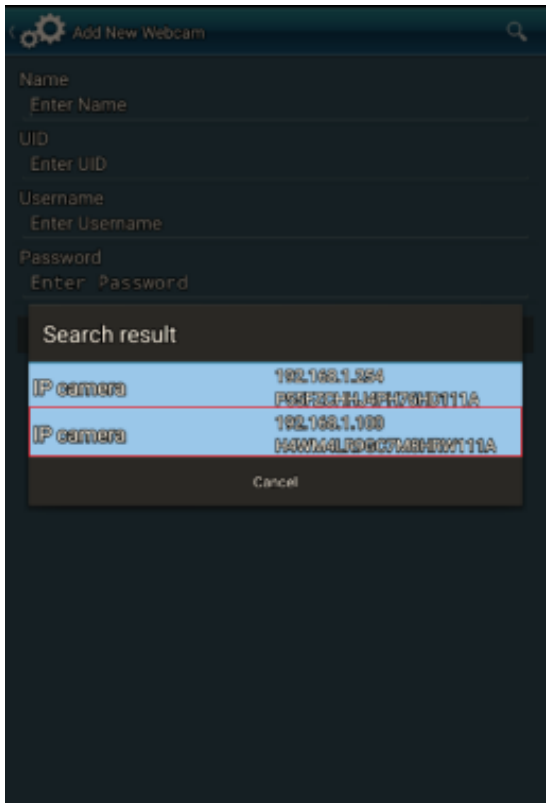
Add Camera
IPCAM-AP-H4W

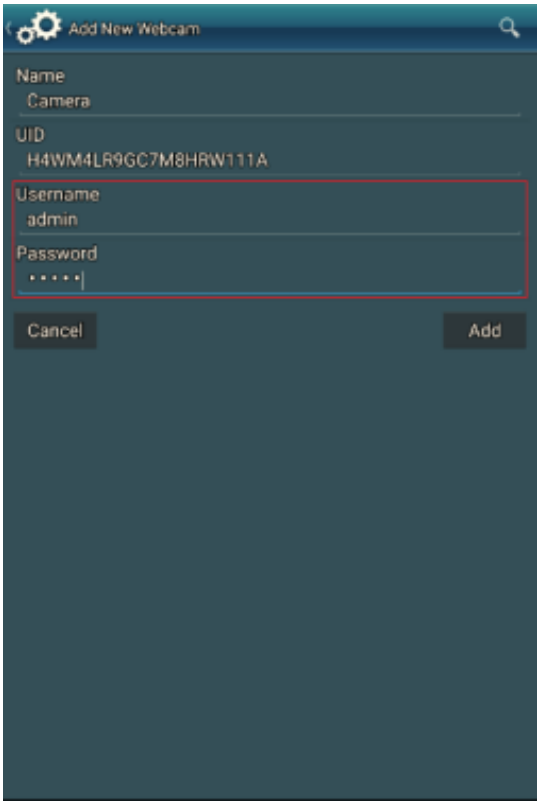
Add Camera
IPCAM-AP-H4W
Camera
Add
Cancel

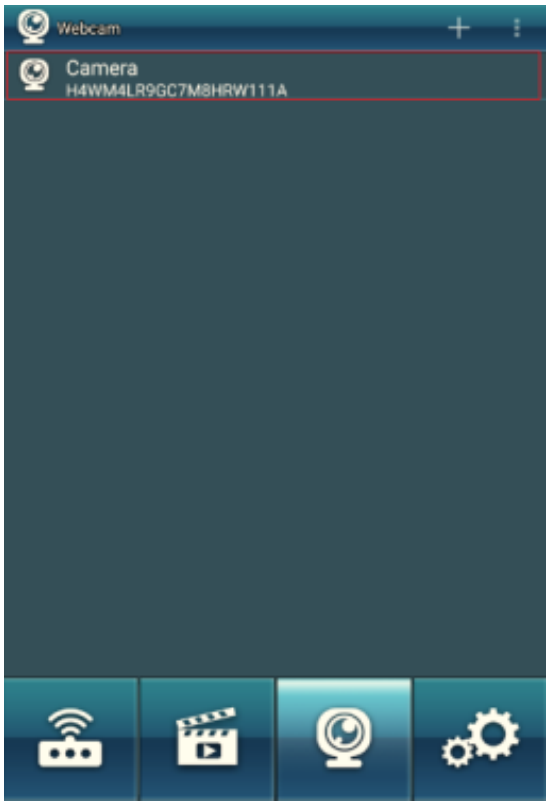

MyCam PRO

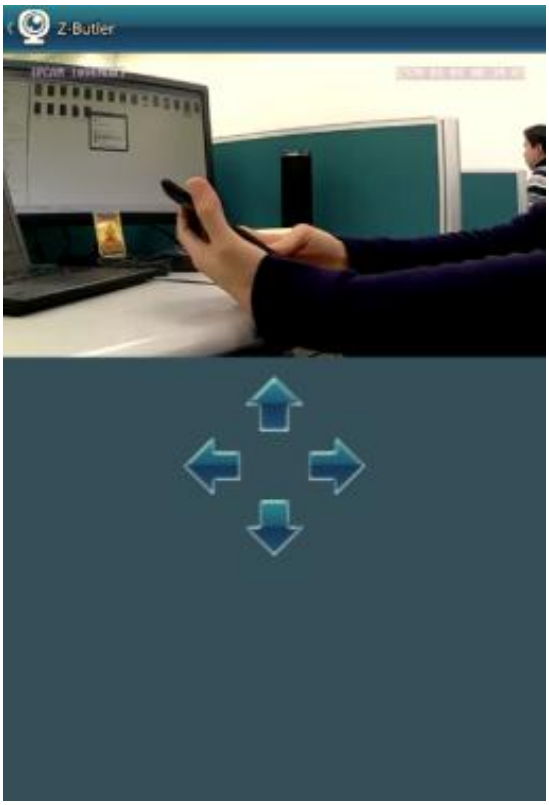
1. Execute the Z-Butler APP.
2. Input the default account/password(admin/1234).
3. Enter the webcam page and click “+”.
4. Click the icon “magnifier”.
5. Click to join the IPCAM which you want.
6. Input the default username/password(admin/admin) and click “Add”.
7. If success, you can view the IPCAM item in the webcam page and then click this item you can see the live view.


Add New Webcam
Name
Enter Name
UID
Enter UID
Username
Enter Username
Password
Enter Password
Cancel
Add


Add New Webcam
Name
Enter Name
UID
Enter UID
Username
Enter Username
Password
Enter Password
Search result
IP camera
IP camera
Cancel


Add New Webcam
Name
Camera
UID
H4WM4LR9GC7M8HRW111A
Username
admin
Password
Cancel
Add

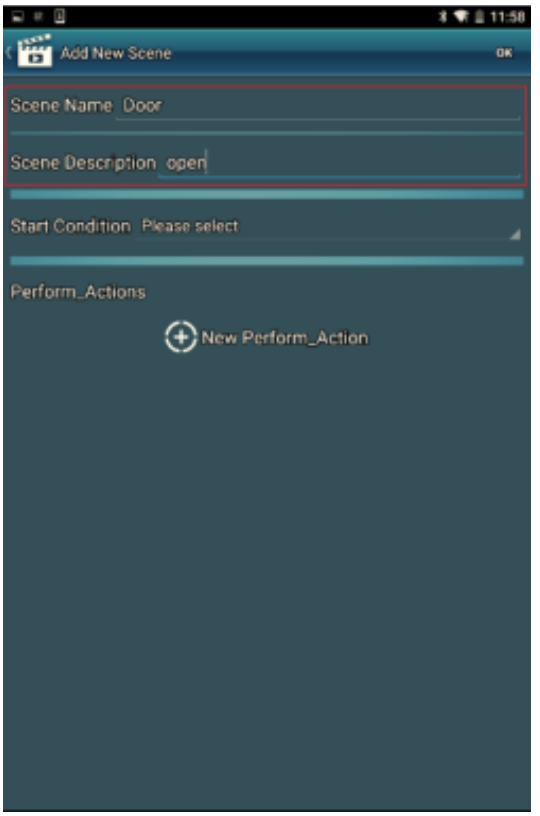

Webcam
Camera
H4WM4LR9GC7M8HRW111A

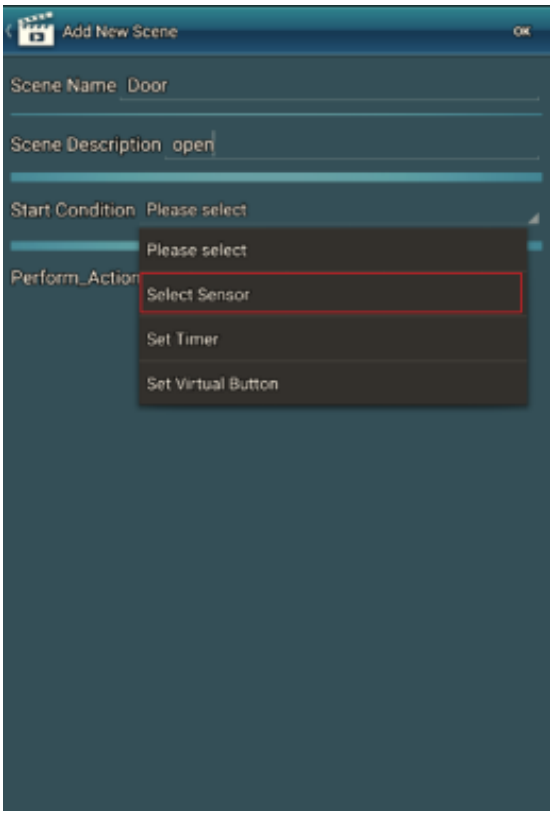


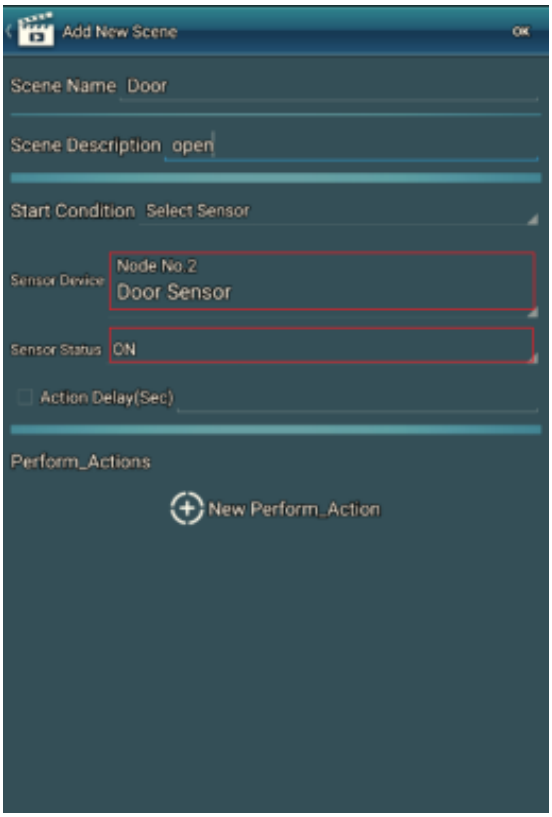
8. Automator: Setting Scenarios

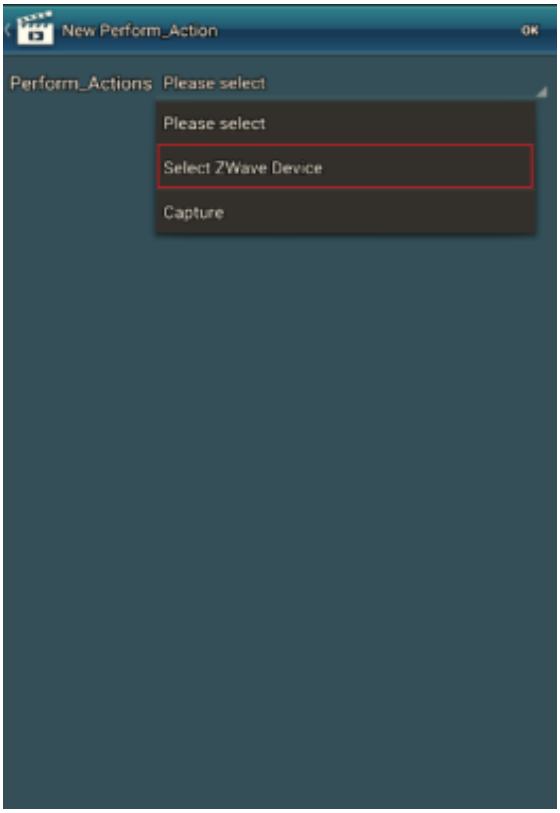
1. Select Scene settings from function bar.
2. Give the name to the scene task.
3. Click Select Sensor from ***Start Condition***.
4. Select Door Sensor from ***Sensor Device***.
5. Select On from ***Sensor Status***. Click *New* ***Perform Action*** to implement.
6. Click Select ZWave device from ***Perform Actions***.
7. Choose Siren from ***Action Device***. Select On from ***Sensor Status***.
8. Press ***OK***.
9. Please Click “+” if you want to add more scene setting.

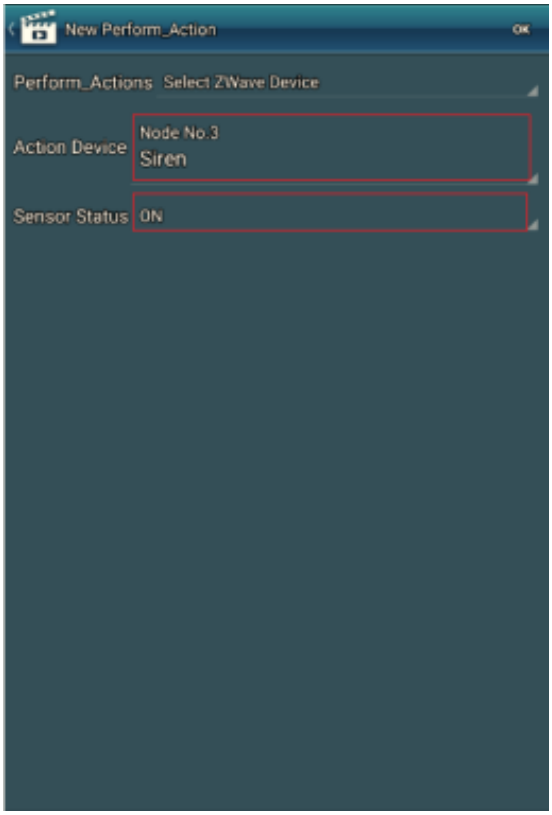
10. Give a name to the new scene.
11. Click Select Sensor from ***Start Condition***.
12. Choose Door Sensor from ***Sensor Device***. Click OFF from ***Sensor Status***. Click ***New Perform Action***.
13. Click Select ZWave Device from ***Perform Actions***.
14. Select Siren from ***Action Device***. Click OFF from ***Sensor Status***. Press ***OK***.
15. Press ***OK***.
16. You will see all the scene setting that you have made from the list.




Add New Scene
OK
Scene Name Door
Scene Description open
Start Condition Please select
Perform_Action
Please select
Select Sensor
Set Timer
Set Virtual Button

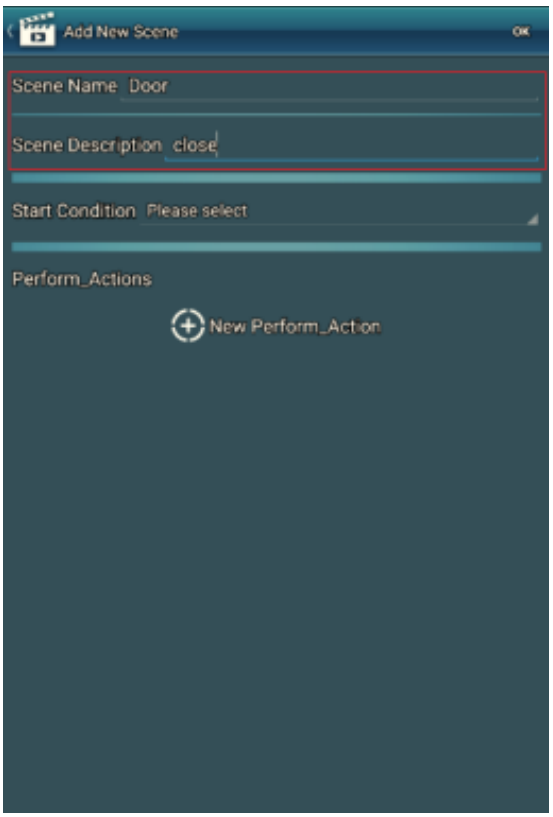

Add New Scene
OK
Scene Name Door
Scene Description open
Start Condition Select Sensor
Sensor Device
Node No.2
Door Sensor
Sensor Status ON
Action Delay(Sec)
Perform_Actions
New Perform_Action

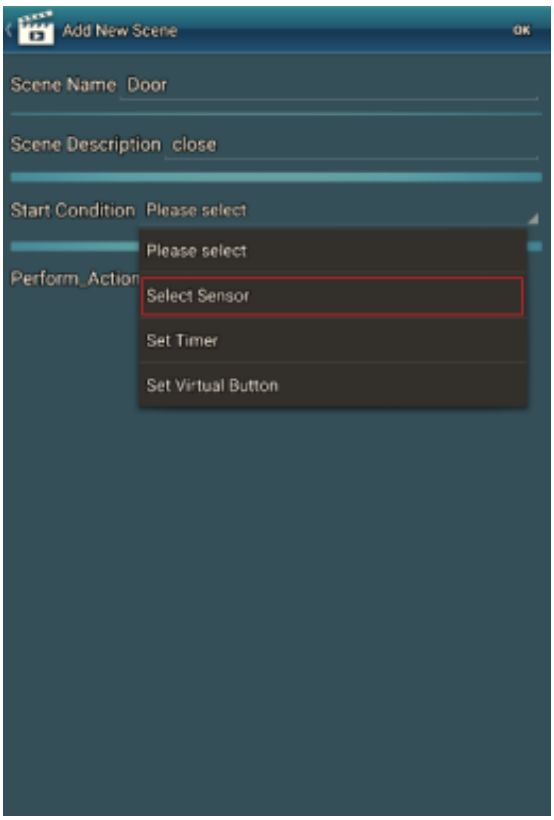

New Perform_Action
OK
Perform_Actions Please select
Please select
Select ZWave Device
Capture


New Perform_Action
OK
Perform_Actions Select ZWave Device
Action Device
Node No.3
Siren
Sensor Status ON

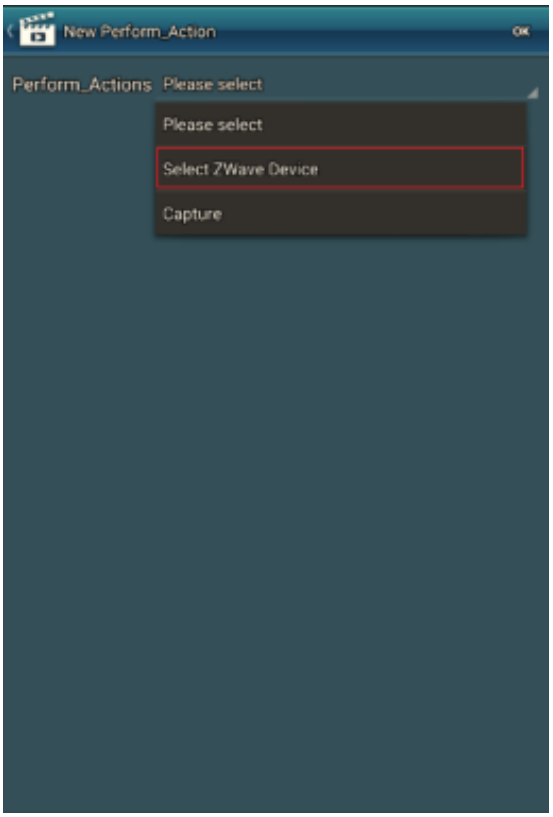
Add New Scene
OK
Scene Name Door
Scene Description open
Start Condition Select Sensor
Sensor Device
Node No.2
Door Sensor
Sensor Status ON
Action Delay(Sec)
Perform_Actions
ONNode No.3 Siren
New Perform_Action

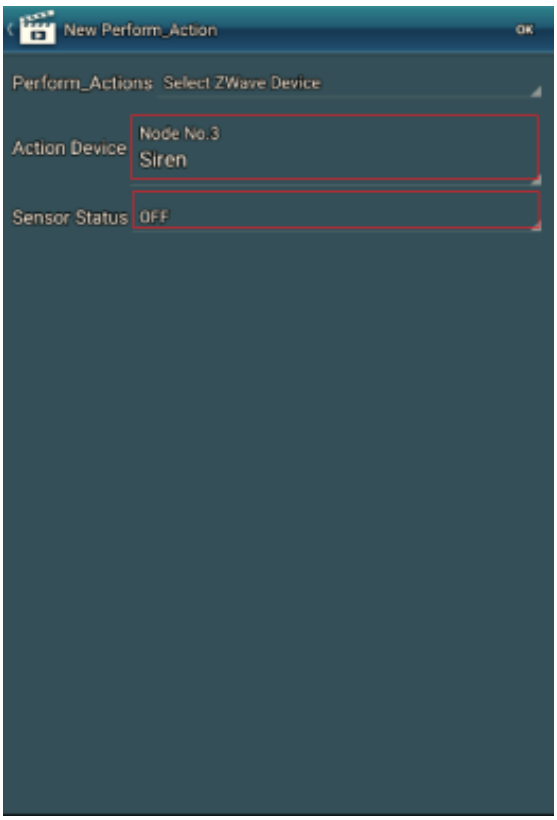
Scenes
Door
open
ON


Add New Scene
OK
Scene Name Door
Scene Description close
Start Condition Please select
Perform_Actions
New Perform_Action


Add New Scene
OK
Scene Name Door
Scene Description close
Start Condition Please select
Please select
Select Sensor
Set Timer
Set Virtual Button

Add New Scene
OK
Scene Name Door
Scene Description close
Start Condition Select Sensor
Sensor Device
Node No 2
Door Sensor
Sensor Status OFF
Action Delay(Sec)
Perform_Actions
New Perform_Action


New Perform_Action
OK
Perform_Actions Please select
Please select
Select ZWave Device
Capture


New Perform_Action
OK
Perform_Actions Select ZWave Device
Action Device
Node No.3
Siren
Sensor Status OFF

Add New Scene
OK
Scene Name Door
Scene Description close
Start Condition Select Sensor
Sensor Device
Node No 2
Door Sensor
Sensor Status OFF
Action Delay(Sec)
Perform_Actions
OFF Node No.3 Siren
New Perform_Action

Scenes
Door
open
ON
Door
close
ON