

KC868-H16W Device User Manual (V0508)

I . Software Downloading

II . Device Wi-Fi Config Operation

III. Remote Controlling Operation

1. Mobile APP controlling manual

2. Computer Program controlling manual (WAN mode)

IV. Local Controlling Operation (LAN mode)



I . Software Downloading

1. Use mobile phone to scan the below QR code to download the APP



2. KC868-H16W software (Phone APP QR code, PC Program, Vircom Network Tool) downloading link:

www.kincony.com/download/Disk_KC868-H16W.rar

Please download the file to have the software firstly, as below, it is default you already have and know them.

II . Device Wi-Fi Config Operation (Necessary before any other controlling)

1. Make sure your router has the “DHCP” function or has opened the function

2. To setup the Wi-Fi, one computer with Wireless function is necessary

3. Power on the device and install the antenna

4. To set the config of Wi-Fi as below steps:

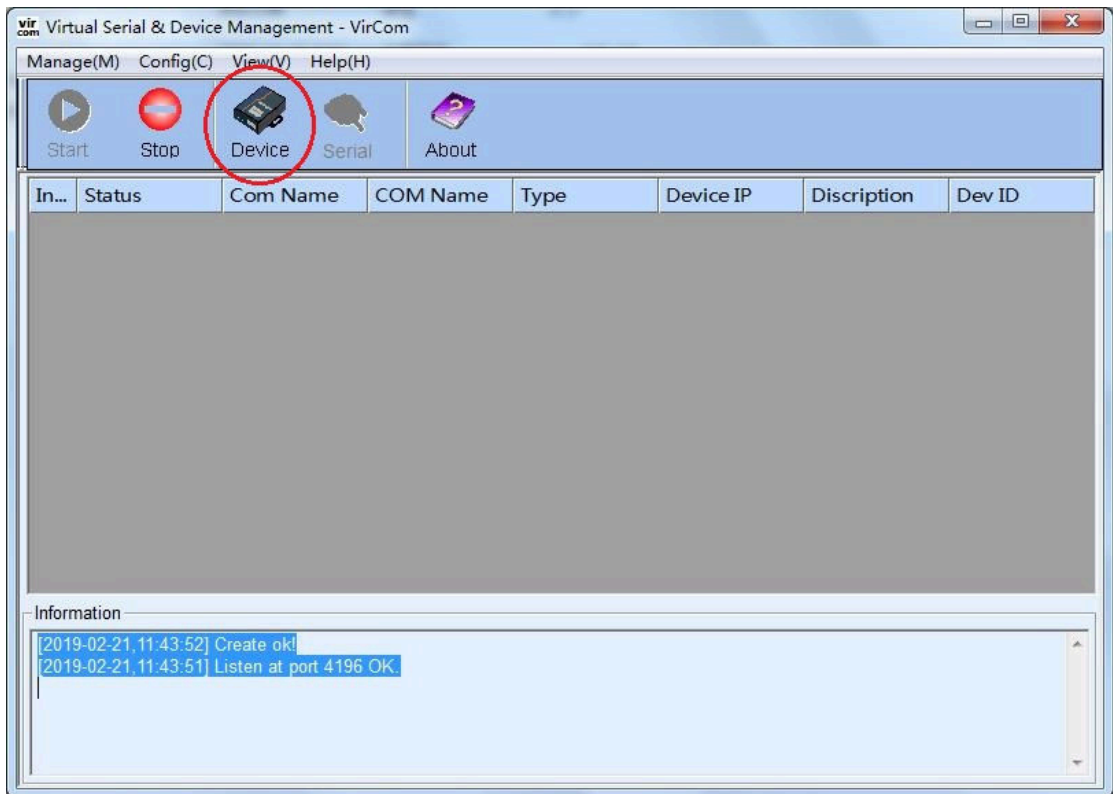
Step 1: Use your computer to connect the wireless network of “ZLAN”



Step 2: Open the "Vircom Network Tool"

vir.com 2----VirCom4.88_en_ne

and click 【Device】



Step 3: Click 【Auto Search】 and double click the row

Device Management

In...	Ty...	Name	Dev-IP	Dest-IP	Work ...	TCP ...	Virtual ...	Vircom-St...	Dev-ID	TXD ...	RXD ...
1	Su...	ZLDEV00...	192.168.1.254	114.55.89.143	UDP	UDP	Haven't ...	Not Linked	002A0...	0	1744...

Auto Search

Add Manually

Search Serial

P2P Device

Edit Device

Search List

Back

Double click this row

Step 4: Click 【More Advanced Settings】

Device Settings

Device Info

Virtual Serial: Not Use

Dev Type:

Dev Name: ZLDEV0001

Dev ID: 2850002A0EE3

Firmware Ver: V1.409

Function of the device

☐ Web Download

☒ DNS System

☒ REAL_COM Protocol

☒ Modbus TCP To RTU

☒ Serial Commnad

☒ DHCP Support

☐ Storage Extend

☒ Multi-TCP Connection

Network

IP Mode: Static

IP Address: 192 . 168 . 1 . 254

Port: 4196

Work Mode: UDP

Net Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 1 . 1

Dest. IP/Domain: 114.55.89.143 Local IP

Dest. Port: 5555

Serial

Baud Rate: 115200

Data Bits: 8

Parity: None

Stop Bits: 1

Flow Control: None

Advanced Settings

DNS Server IP: 192 . 168 . 199 . 1

Dest. Mode: Dynamic

Transfer Protocol: None

Keep Alive Time: 60 (s)

Reconnet Time: 12 (s)

Http Port: 80

UDP Group IP: 230 . 90 . 76 . 1

☐ Register Pkt: ASCII

☐ Restart for no data every 300 Sec.

☐ Enable send parameter every 5 Min.

More Advaced Settings...

Framing Rule

Max Frame Length: 1300 (Byte)

Max Interval(Smaller will better) 3 (Ms)

Get Default Save As Default Load Default Load Firmware Restart Dev Modify Setting Cancel

Step 5: Choose "Station" for 【WIFI Work Mode】 , Input your router's name for 【AP/STA SSID】
And input your router's password for 【AP/STA SSID】 , then click 【OK】

More Advanced Settings

WIFI Settings WIFI Work Mode: Station AP/STA SSID: KINCONY1 Encrypt Type: Auto AP/STA Key: XXXXXXXXXX AP Mode Channel: 4 DHCP Server: Disable RJ45 WIFI Relay: Disable	Function Selection <input type="checkbox"/> Modify setting will need key <input type="checkbox"/> Enable receive broadcast <input type="checkbox"/> Enable P2P <input type="checkbox"/> Send MAC when TCP establish <input type="checkbox"/> Detect net using Ping Proxy Function Proxy Server IP: 0 . 0 . 0 . 0 Port: 0 <input type="checkbox"/> Need Authentication Name: Key: RS485 Bus Collision Detection Function <input type="checkbox"/> Enable. Send data only when RS485 bus is idle for 0 ms Wait max. of 3 (S) before timeout and send if bus always busy	Multi Dest-IP And Port <table border="1"> <tr><td></td><td>0</td><td>Client Dest.</td></tr> <tr><td></td><td>0</td><td>Client Dest.</td></tr> <tr><td></td><td>0</td><td></td></tr> <tr><td></td><td>0</td><td></td></tr> <tr><td></td><td>0</td><td></td></tr> <tr><td></td><td>0</td><td></td></tr> <tr><td></td><td>0</td><td></td></tr> </table> The Advanced Functions Supported <input type="checkbox"/> IO Port Control <input checked="" type="checkbox"/> UDP Group <input checked="" type="checkbox"/> Multi-Dest IP <input type="checkbox"/> Proxy Function <input type="checkbox"/> SNMP Function <input type="checkbox"/> P2P Function		0	Client Dest.		0	Client Dest.		0			0			0			0			0	
	0	Client Dest.																					
	0	Client Dest.																					
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VLAN Settings Enable VLAN: <input type="checkbox"/> VLAN Priority: 0 Net Media Type: Ethernet VLAN ID: 200 Frame End Type: Not Use End Byte: 0x 00	RS485 Multi-Host Support <input type="checkbox"/> Support Maximum wait time of RS485 query command: 0 ms (0~8191)
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OK Cancel

Step 6: Choose “DHCP” for 【IP Mode】, and “UDP” for 【Work Mode】, keep others unchanging.

Device Settings

Device Info Virtual Serial: Not Use Dev Type: Dev Name: ZLDEV0001 Dev ID: 2850002A0EE3 Firmware Ver: V1.409	Network IP Mode: DHCP IP Address: 192 . 168 . 1 . 254 Port: 4196 Work Mode: UDP Net Mask: 255 . 255 . 255 . 0 Gateway: 192 . 168 . 1 . 1 Dest. IP/Domain: 114.55.89.143 Local IP Dest. Port: 5555 Serial Baud Rate: 115200 Data Bits: 8 Parity: None Stop Bits: 1 Flow Control: None	Advanced Settings DNS Server IP: 192 . 168 . 199 . 1 Dest. Mode: Dynamic Transfer Protocol: None Keep Alive Time: 60 (s) Reconnect Time: 12 (s) Http Port: 80 UDP Group IP: 230 . 90 . 76 . 1 <input type="checkbox"/> Register Pkt: <input type="checkbox"/> Restart for no data every 300 Sec. <input type="checkbox"/> Enable send parameter every 5 Min. More Advanced Settings... Framing Rule Max Frame Length: 1300 (Byte) Max Interval(Smaller will better) 3 (Ms)
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Get Default Save As Default Load Default Load Firmware Restart Dev **Modify Setting** Cancel

Step 7: Click 【Modify Setting】 to return, and then re-power on the device, wait for approx one minute
Now the device is online, the other controlling can be operated.

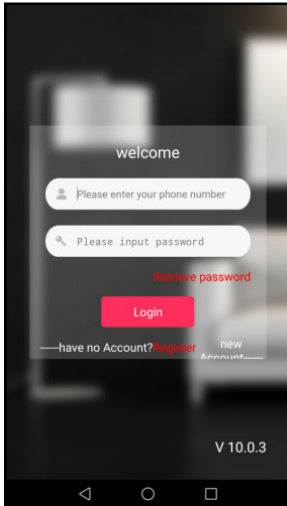
III. Remote Controlling Operation

1. Mobile APP controlling manual

1.1 According to the Wi-Fi config setup, it's necessary to config the Wi-Fi firstly.

1.2 Register

After downloading and installing the APP, Register your account (11 digitals) and password, (Pls make a note for your password in case forgotten).



1.3 Adding device

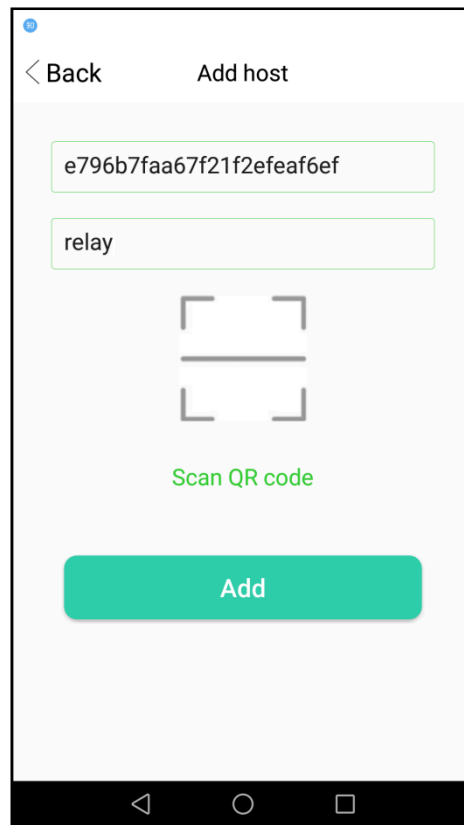
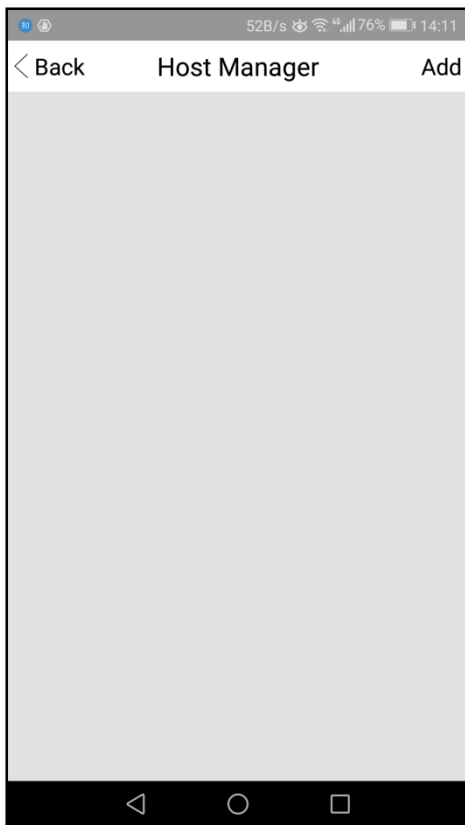
Login in, choose **【Mine】-【My Room】**, add floor and room(this step is necessary, please make sure this)



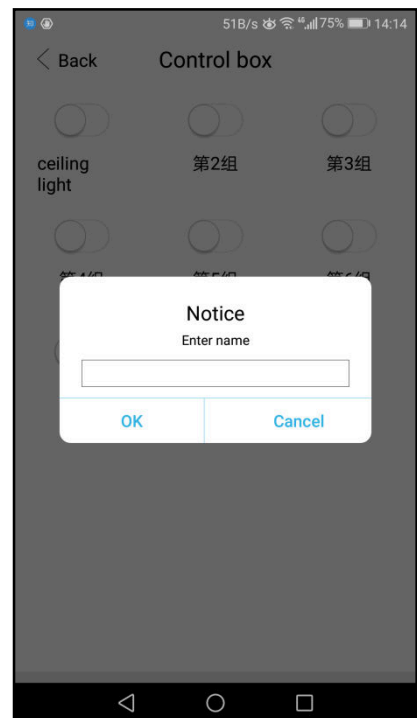
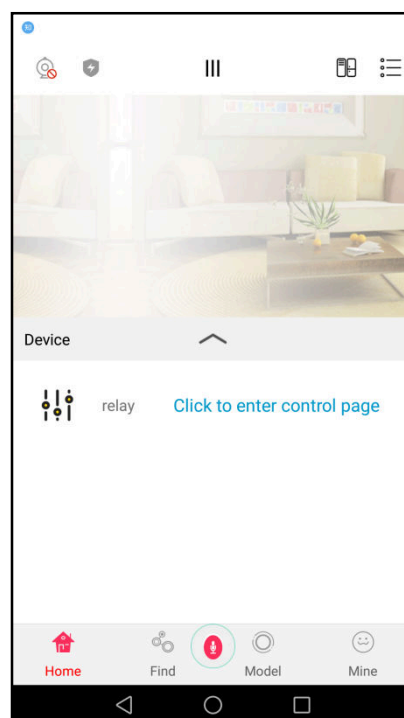
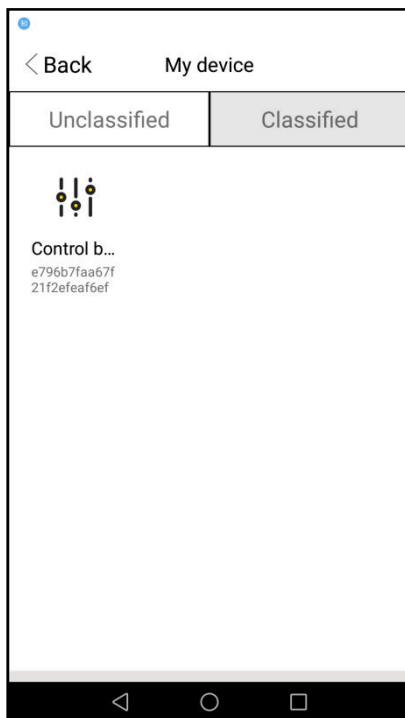
Floor and Room can be renamed randomly, then click **【OK】**

Choose **【Mine】-【Host Manager】**, click **【add】**, scan the QR code on the device, and input a name.

Click **【Add】** to finish adding device



Click **【Mine】** - **【My Device】** - **【Unclassified】** ,Hold pressing the ICO to choose one room
And give a name for the device.



Hold pressing the number of the relay, the name can be renamed.

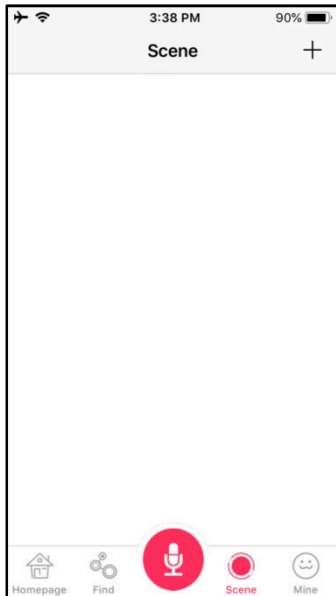
Now adding device is completed, the device can be controlled by mobile APP.

1.4 Create Scene Mode

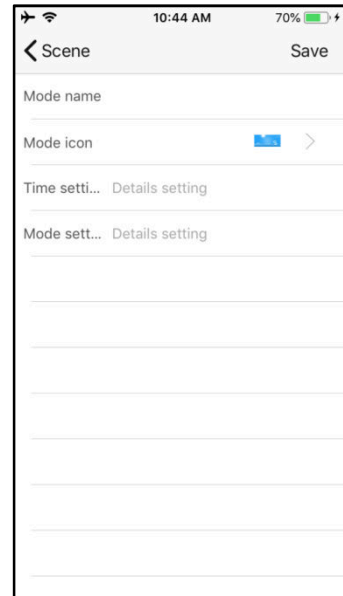
Login in APP, Click **【Scene】** — **【+】** or **【Add】** --Input Mode name, choose Mode icon,

Time setting Optional(Function of timing), at **【Mode setting】**, input the actions you want to control, click**【Save】**;

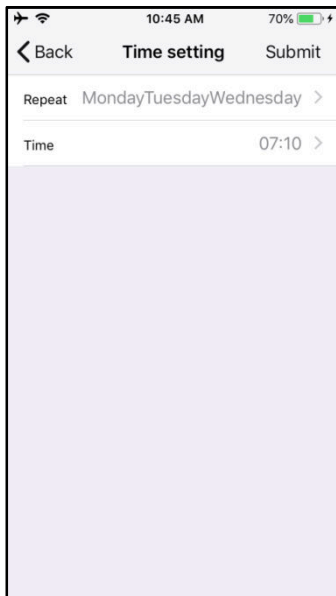
see below pic4-2, pic4-3, pic4-4, pic4-5.



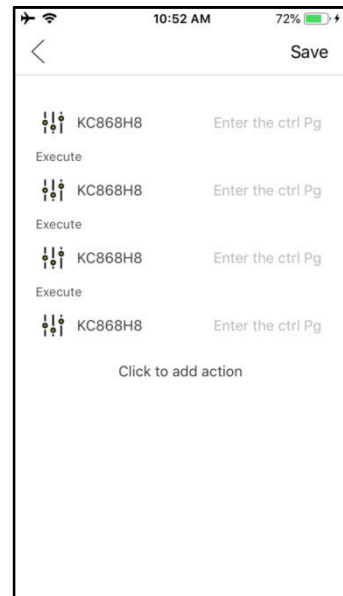
Pic4-2 Add Scene



Pic4-3 Add Scene 2



Pic4-4 Time setting (Optional)



Pic4-5 Mode setting (Actions controlled)

“Mode name” can be named; e.g.: Back Home, Leaving Home, Meeting;

“Mode icon” can be changed;

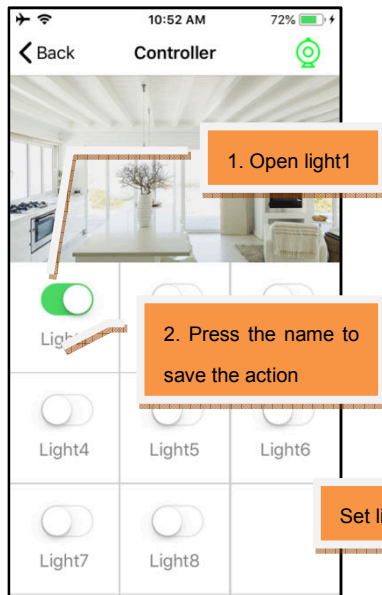
“Time setting” is for timing (optional), Pic4-4, Repeated time: Monday, Tuesday, Wednesday and 7:10 am.

Meaning the scene mode is opened at 7:10 am each Monday, Tuesday and Wednesday.

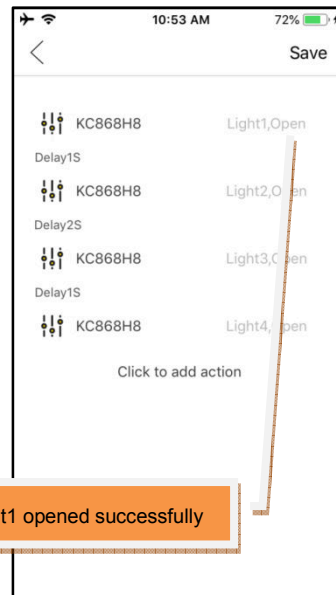
“Mode setting” is for adding the actions required to control

1. Press ‘Click to add action’, choose KC868H8
2. Press [Enter the ctrl pg], you can set the actions, see Pic4-7
 - a. Open light1
 - b. Press the name, it will save the action
3. Press Execute, you can set Delay time
4. Press ‘Save’

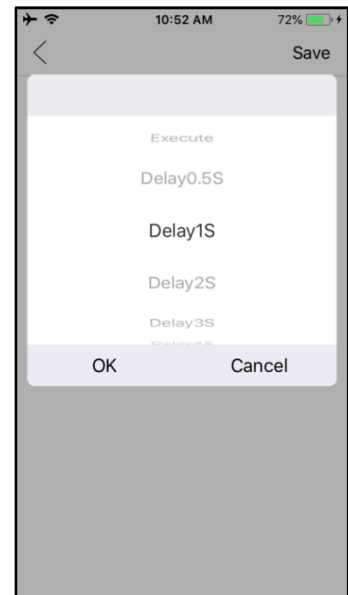
See Pic4-6, Pic4-7, Pic4-8.



Pic4-6



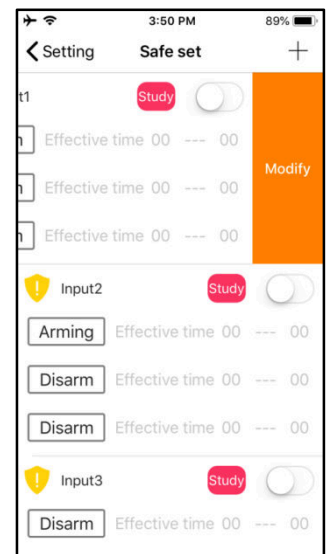
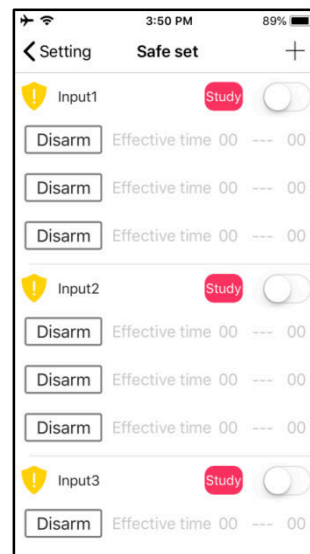
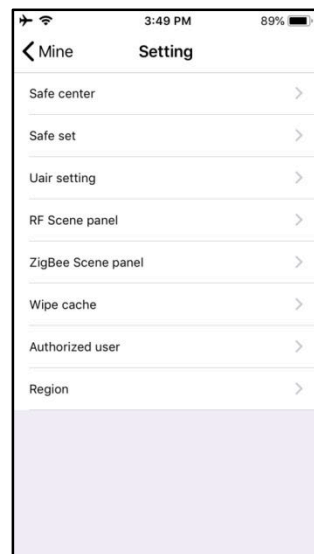
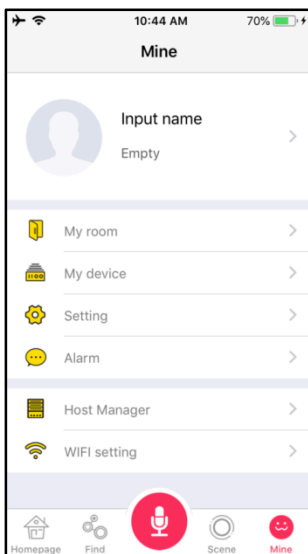
Pic4-7



Pic4-8

II. Inputting terminals trigger linkage of the scene mode

Click **【Mine】** ---- **【Setting】** -- **【Safe set】** ,Hold pressing **【input1】** to left,
The parameters can be modified.



【Device name】 : input one name

【Related scene】 click to choose one scene mode to linkage

【Alarm message】 Input message text sent to mobile(setting message allowed);

When inputting terminals are triggered, the phone will receive 【Alarm message】 ;

And the actions of the scene mode will be opened

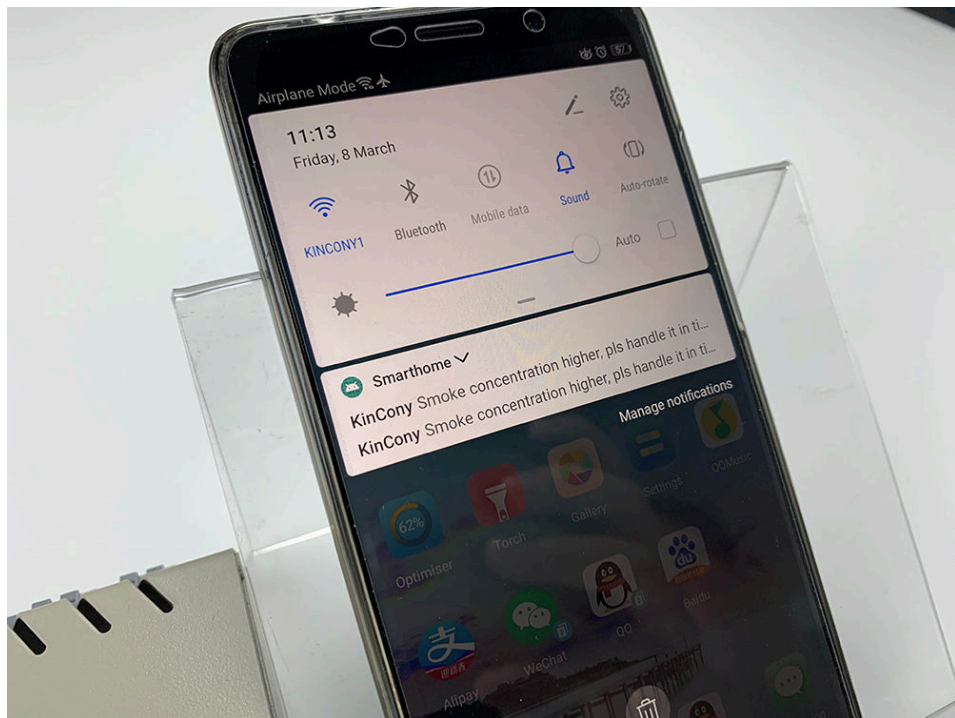
3:50 PM 89%

< Save

Device name Input1

Related scene: Select a trigger scene mode

Alarm message



< Back Safe set +

Input1 Study ☒

Start 00 End 23 Arming

Start 00 End 00 Disarm

Start 00 End 00 Disarm

Input2 Study ☒

Start 00 End 23 Arming

Start 00 End 00 Disarm

Start 00 End 00 Disarm

Input3 Study ☒

Start 00 End 23 Arming

Start 00 End 00 Disarm

1、Turn on the alarm button

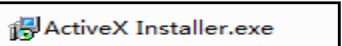
2、Start 00-23 and Arming

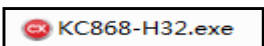
(00-23 means Arming the whole day.

00—08 means Arming from 00:00 to 08:59)

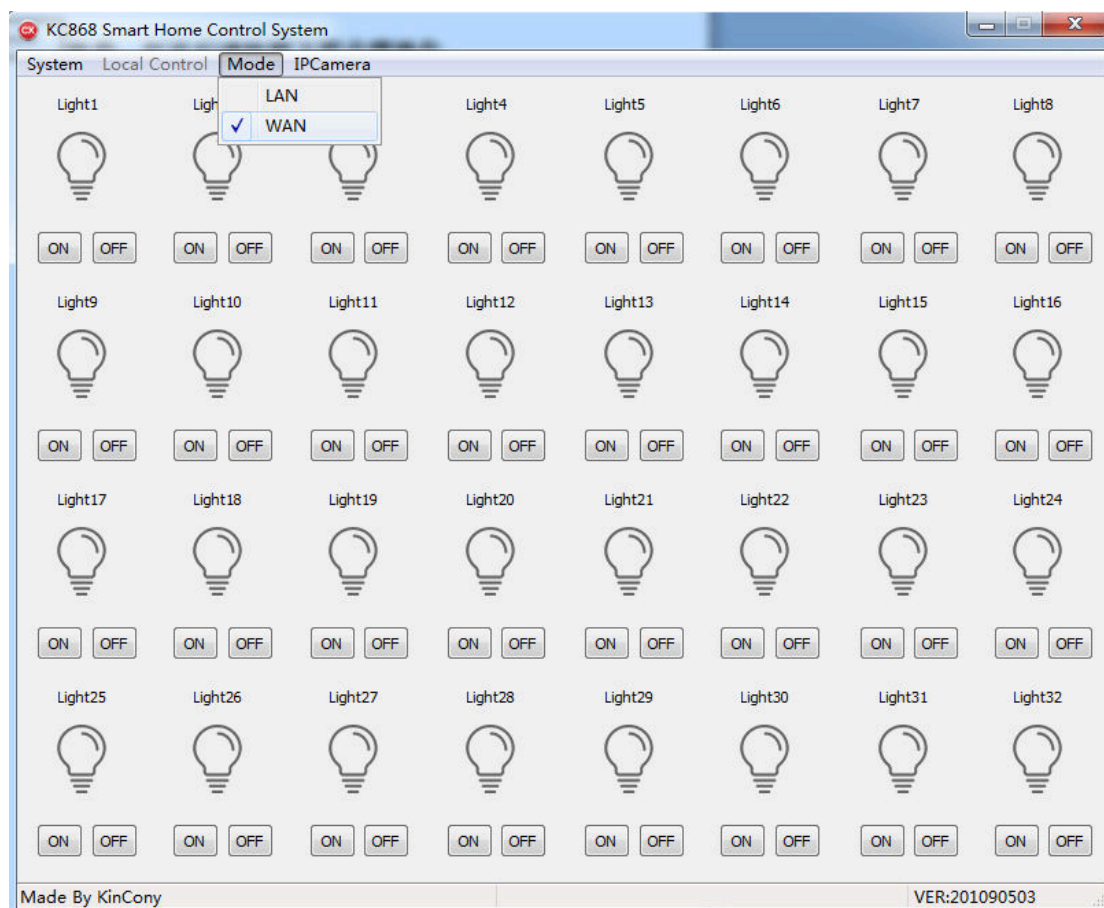
2. Computer Program controlling manual (WAN mode)

2.1 According to the Wi-Fi config setup, it's necessary to config the Wi-Fi firstly.

2.2 The first time to use the program, double click  to install the ActiveX Installer.

2.3 Then double click  to open the program and setup the configuration

Step 1: Choose **【Mode】** - **【WAN】**



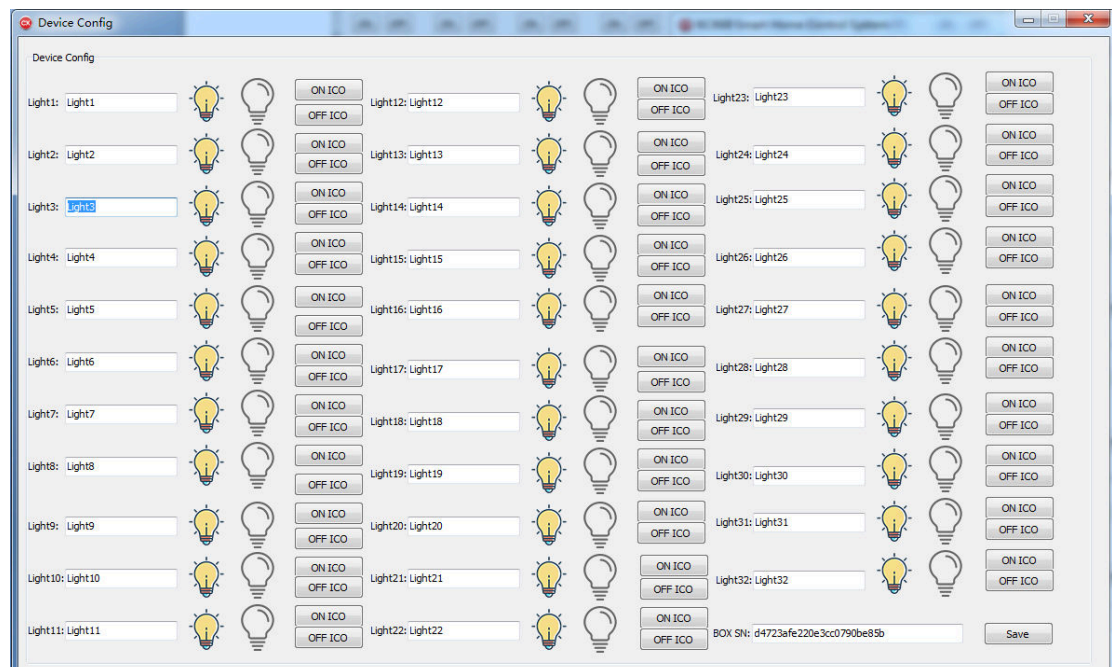
Step 2: click **【System】** - **【Parameter Config】**



Step 3: Input Serial Number of the device at the right bottom, and then click **【Save】**

(Serial Number is the 24 digitals on the QR code on the device)

Here, you can give new name for each relay if required.




Step 4: Now re-start the program, then choose **【Mode】** - **【WAN】** .

Now the program can control the device remotely

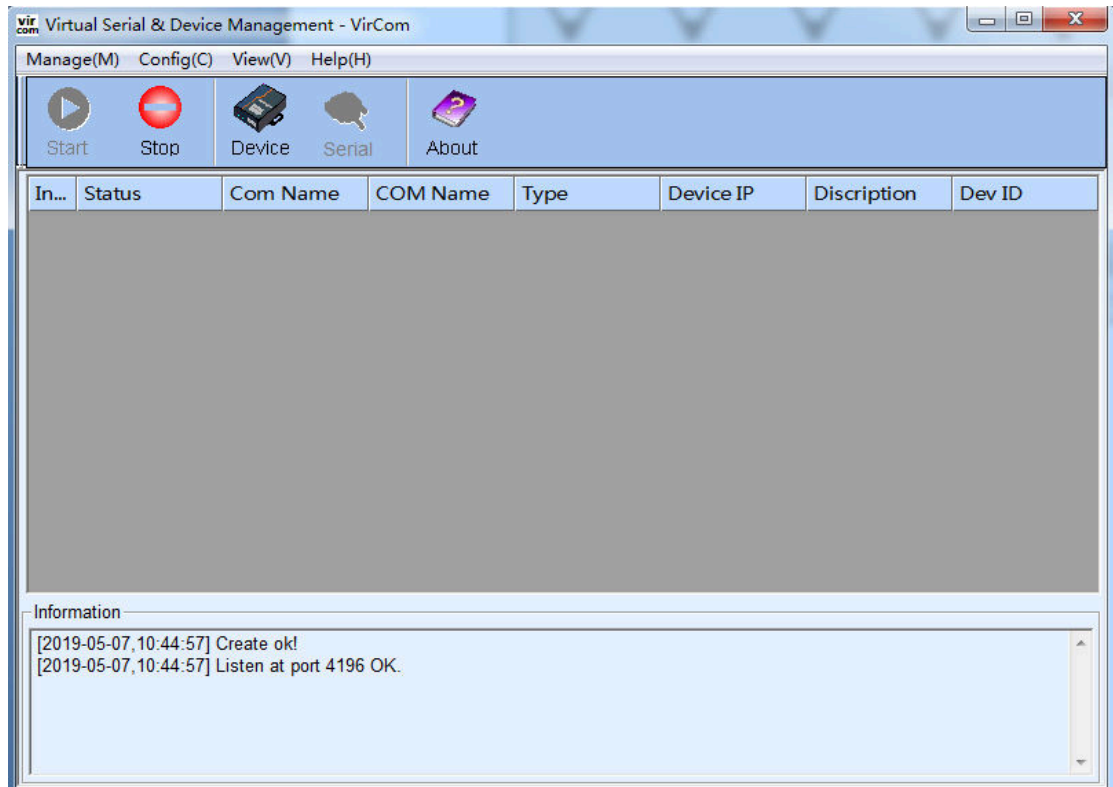
IV. Local Controlling Operation (LAN mode)

1.1 According to the Wi-Fi config setup, it's necessary to config the Wi-Fi firstly.

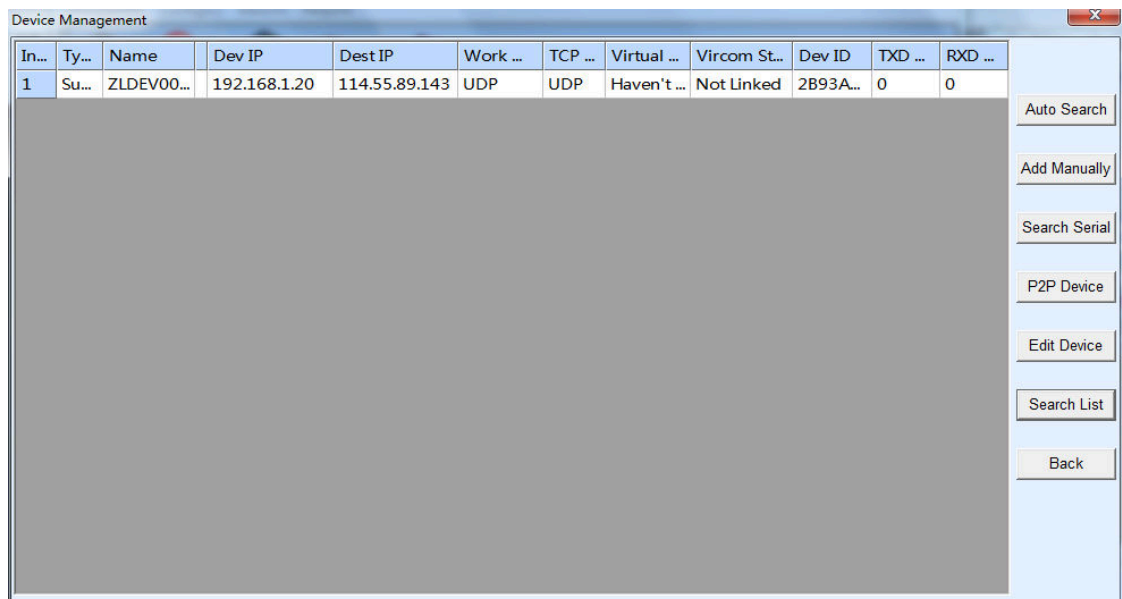
1.2 Make sure your computer and the device are belonging to the same local internet

1.3 Open the “Vircom Network Tool”  2----VirCom4.88_en_ne , and setup the configuration of the device

Step 1: Click **【Device】**



Step 2: Click **【Auto Search】**



Step 3: Click **【Edit Device】**

The screenshot shows the 'Device Settings' window with the following configurations:

- Device Info:** Virtual Serial (Not Use), Dev Type, Dev Name (ZLDEV0001), Dev ID (28522B93A015), Firmware Ver (V1.598).
- Function of the device:** Web Download (unchecked), DNS System (checked), REAL_COM Protocol (checked), Modbus TCP To RTU (unchecked), Serial Commnad (checked), DHCP Support (checked), Storage Extend (unchecked), Multi-TCP Connection (checked).
- Network:** IP Mode (DHCP), IP Address (192.168.1.20), Port (4196), Work Mode (UDP), Net Mask (255.255.255.0), Gateway (192.168.1.1), Dest. IP/Domain (114.55.89.143), Local IP (checked), Dest. Port (5555).
- Serial:** Baud Rate (115200), Data Bits (8), Parity (None), Stop Bits (1), Flow Control (None).
- Advanced Settings:** DNS Server IP (192.168.1.1), Dest. Mode (Dynamic), Transfer Protocol (None), Keep Alive Time (0 s), Reconnet Time (0 s), Http Port (0), UDP Group IP (0.0.0.0), Register Pkt. (unchecked), Restart for no data (every 0 Sec.), Enable send parameter (every 0 Min.), Framing Rule (Max Frame Length 1300 Byte, Max Interval 3 Ms).

Buttons at the bottom: Get Default, Save As Default, Load Default, Load Firmware, Restart Dev, Modify Setting, Cancel.

Step 4: Choose “TCP Server” for the 【Work Mode】, instead of “UDP”

The screenshot shows the 'Device Settings' window with the following configurations:

- Device Info:** Virtual Serial (Not Use), Dev Type, Dev Name (ZLDEV0001), Dev ID (28522B93A015), Firmware Ver (V1.598).
- Function of the device:** Web Download (unchecked), DNS System (checked), REAL_COM Protocol (checked), Modbus TCP To RTU (unchecked), Serial Commnad (checked), DHCP Support (checked), Storage Extend (unchecked), Multi-TCP Connection (checked).
- Network:** IP Mode (DHCP), IP Address (192.168.1.20), Port (4196), Work Mode (TCP Server), Net Mask (255.255.255.0), Gateway (192.168.1.1), Dest. IP/Domain (114.55.89.143), Local IP (checked), Dest. Port (5555).
- Serial:** Baud Rate (115200), Data Bits (8), Parity (None), Stop Bits (1), Flow Control (None).
- Advanced Settings:** DNS Server IP (192.168.1.1), Dest. Mode (Dynamic), Transfer Protocol (None), Keep Alive Time (0 s), Reconnet Time (0 s), Http Port (0), UDP Group IP (0.0.0.0), Register Pkt. (unchecked), Restart for no data (every 0 Sec.), Enable send parameter (every 0 Min.), Framing Rule (Max Frame Length 1300 Byte, Max Interval 3 Ms).

Buttons at the bottom: Get Default, Save As Default, Load Default, Load Firmware, Restart Dev, Modify Setting, Cancel.

Step 5: Make sure keeping the others unchanging, meanwhile remember the IP Address and Port

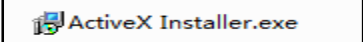
The screenshot shows the IP Address field set to 192.168.1.20 and the Port field set to 4196.

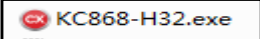
The IP and port will be required as following;

You can open the tool and check back when you forget.

Step 6: Click 【Modify Setting】 to finish the setup, then power off the device and power on again.

You may not close the Vircom network tool program in case you want to check the IP and Port.

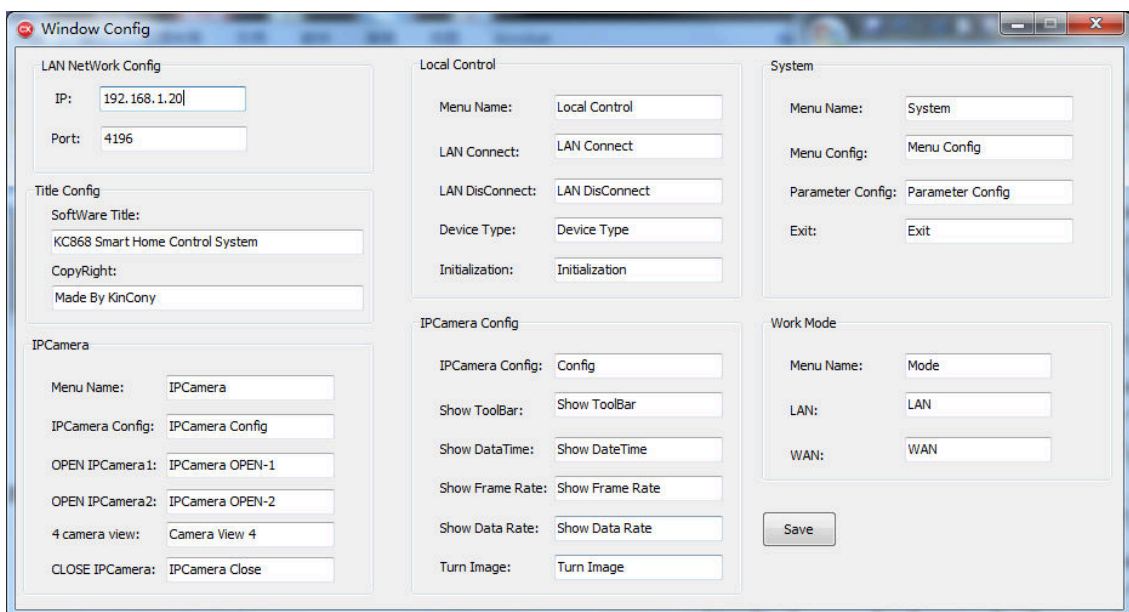
1.4 The first time to use the program, double click  to install the ActiveX Installer.

1.5 Then double click  to open the program and setup the configuration

Step 1: Choose **【System】** - **【Menu Config】**

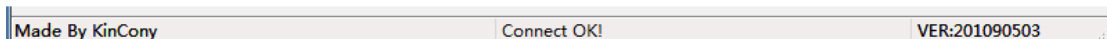


Step 2: Input the IP number and Port number as remembered from the Vircom network tool.

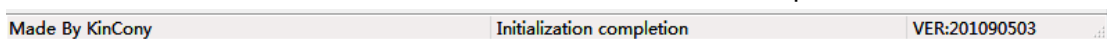


Then click **【Save】** to return

Step 3: Click **【Local Control】** - **【LAN Connect】** , **【Connect OK!】** is showed at the bottom



Step 4: Click **【Local Control】** - **【Initialization】** , **【Initialization completion】** is showed at the bottom



Step 5: Now you can control the device by the program locally.