Wireless Home Security System

User Manual

Rev. 1

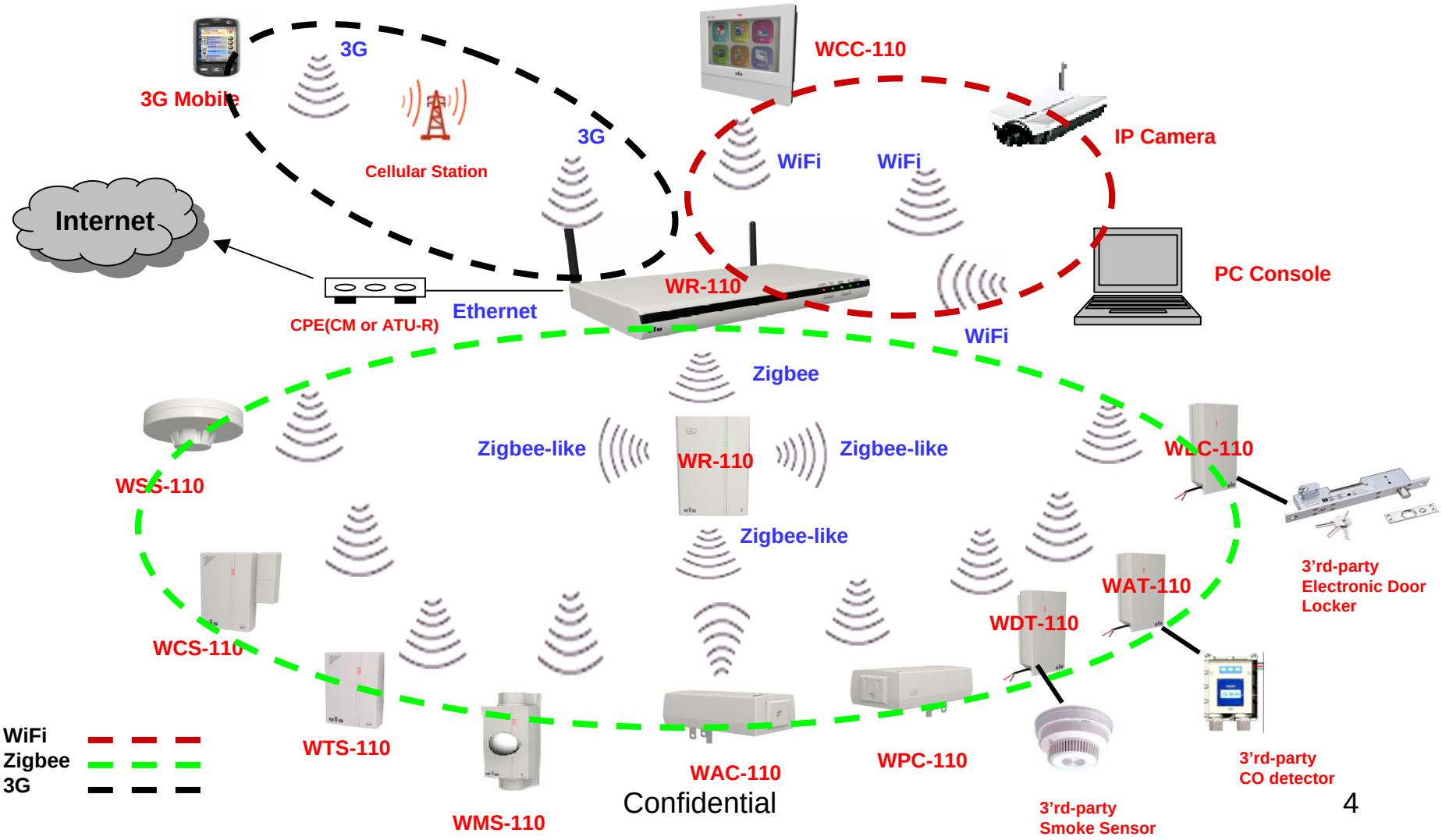
Content

1. System Installation Guide
2. User Operation Guide
3. Troubleshooting Guide
4. Application Guide

WR-110

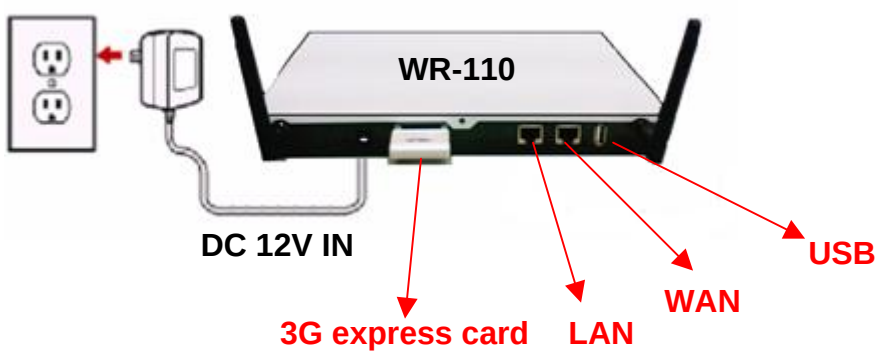
PC/HTTP Console Configuration Guide

System Architecture

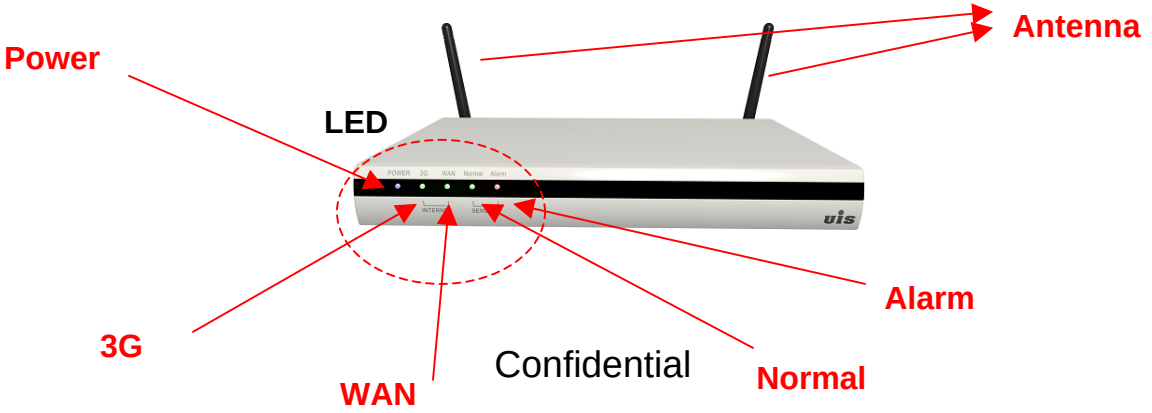


System Setup

Step 1：**Power on the Gateway(WR-110) - plug adapter into the wall power socket**



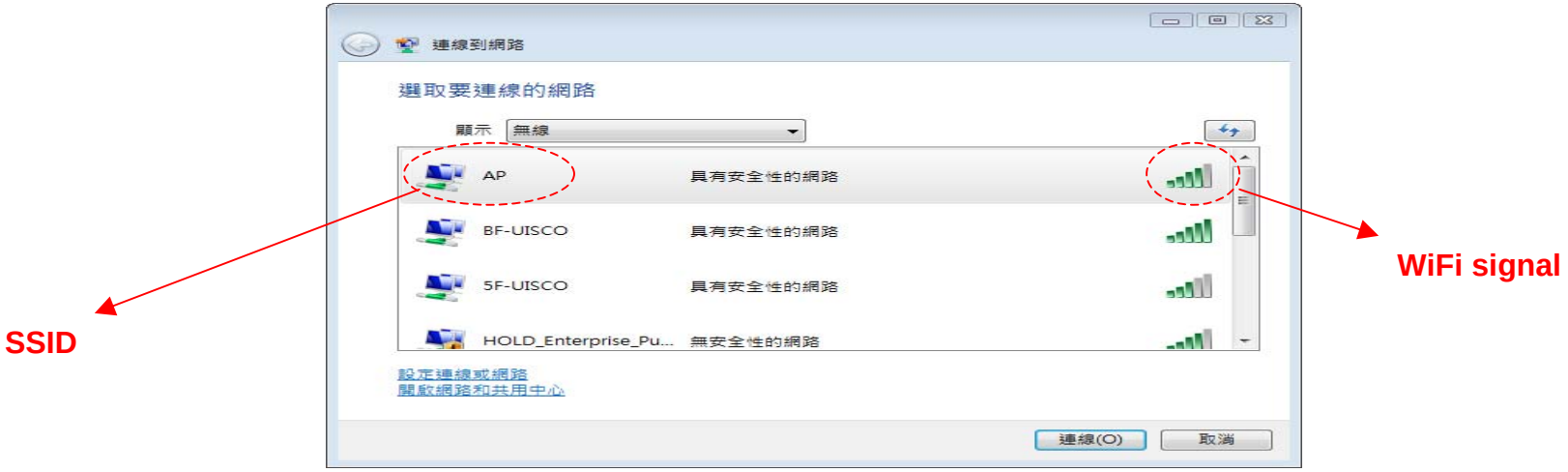
Step 2：**It takes around 40 sec for Gateway to boot up and get ready, you may check out the LEDs of Power(blue) / Normal(green) to identify**



System Setup

Step 3：Set up WiFi connection between the PC and Gateway

- **Power on your PC and enable WiFi(only 802.11b/g supported) network access**
- **Set PC's WiFi interface IP by using DHCP(dynamic IP)**
- **Search Gateway's SSID (you may see the default SSID value on the bottom side of Gateway while doing the first time setup) and get connected with Gateway (PC's WLAN IP address will be assigned by Gateway)**



System Setup

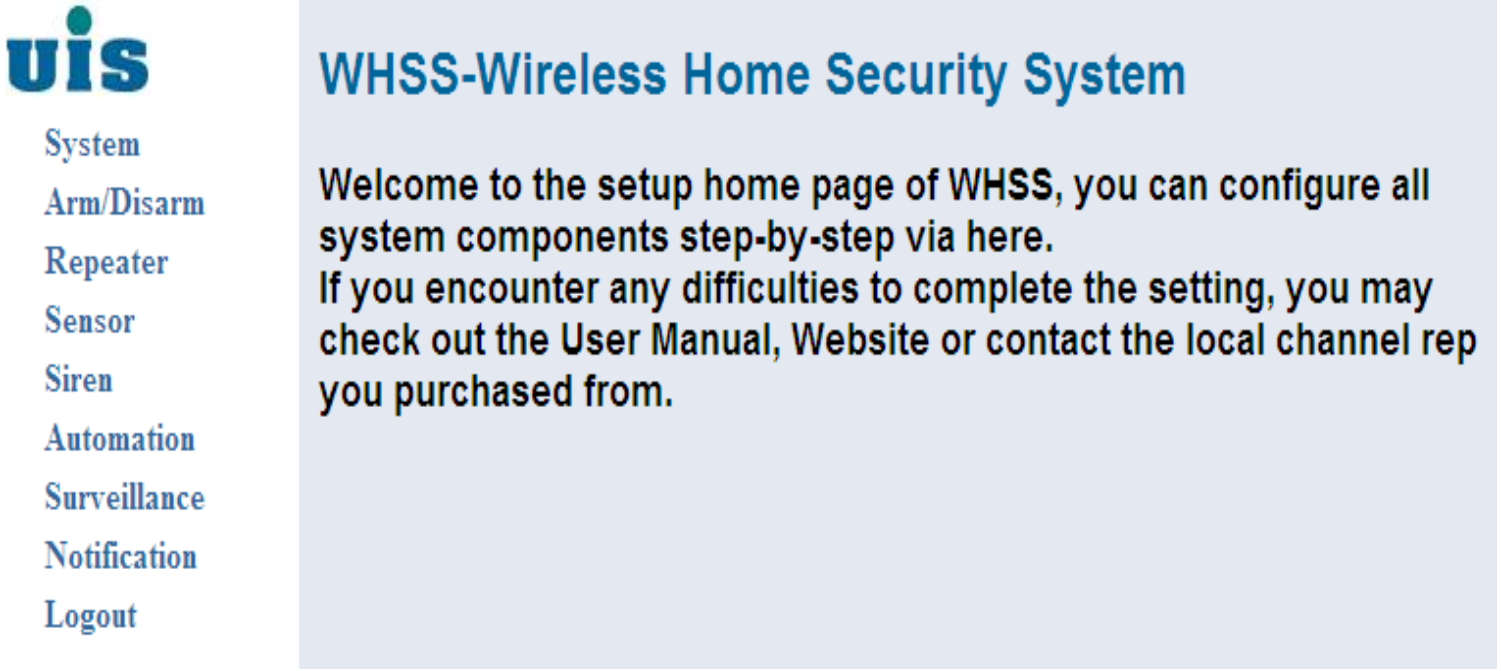
Step 4：**Set up PC console**

- Open the IE browser(6.0 or above) and enter the Gateway IP (you may see the default IP address on the bottom side of Gateway while doing the first time setup)

- Key in the login password “123” (factory default) to enter the main page

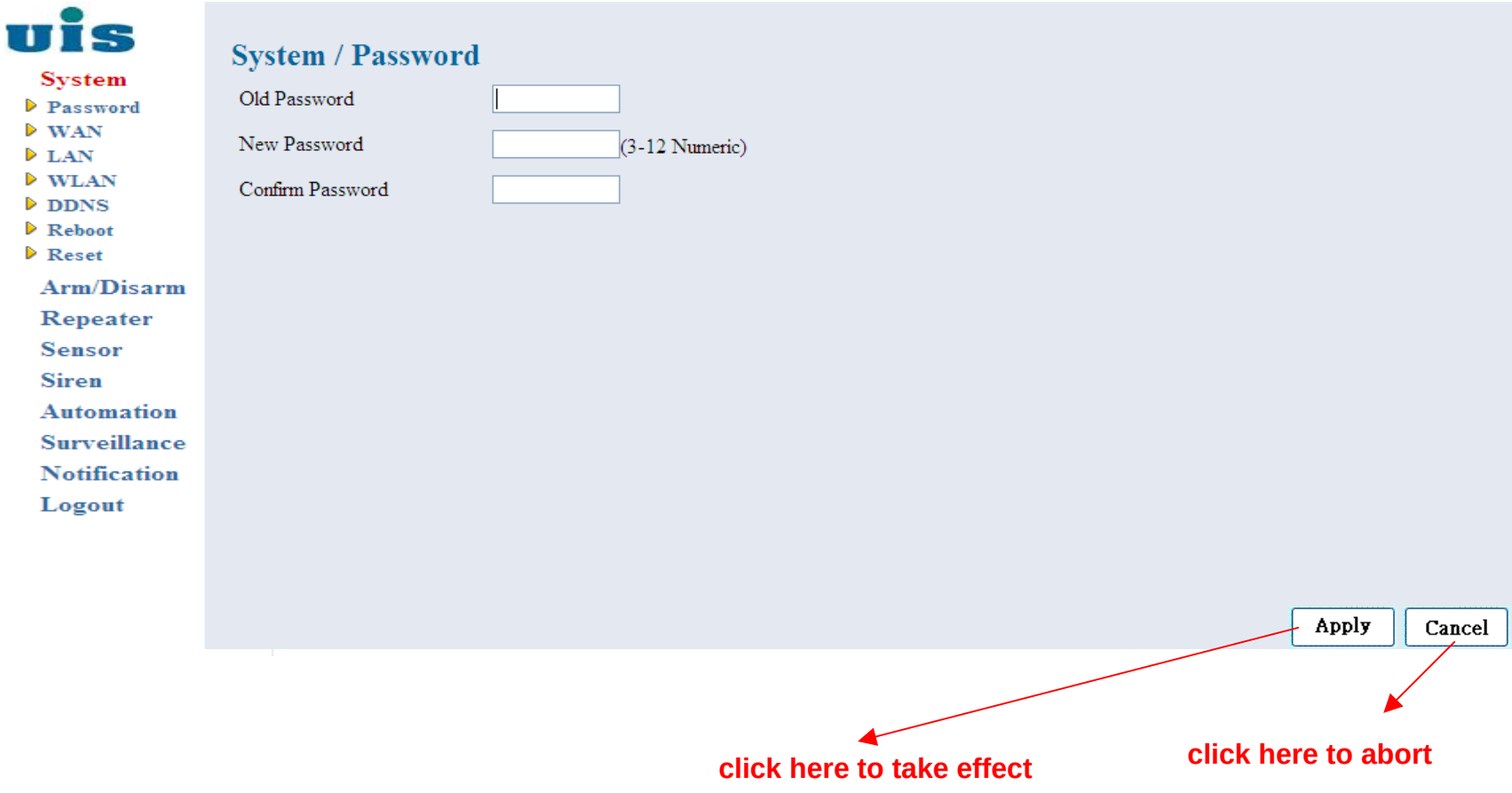
System Setup

Step 5：**Enter the main console of Gateway**



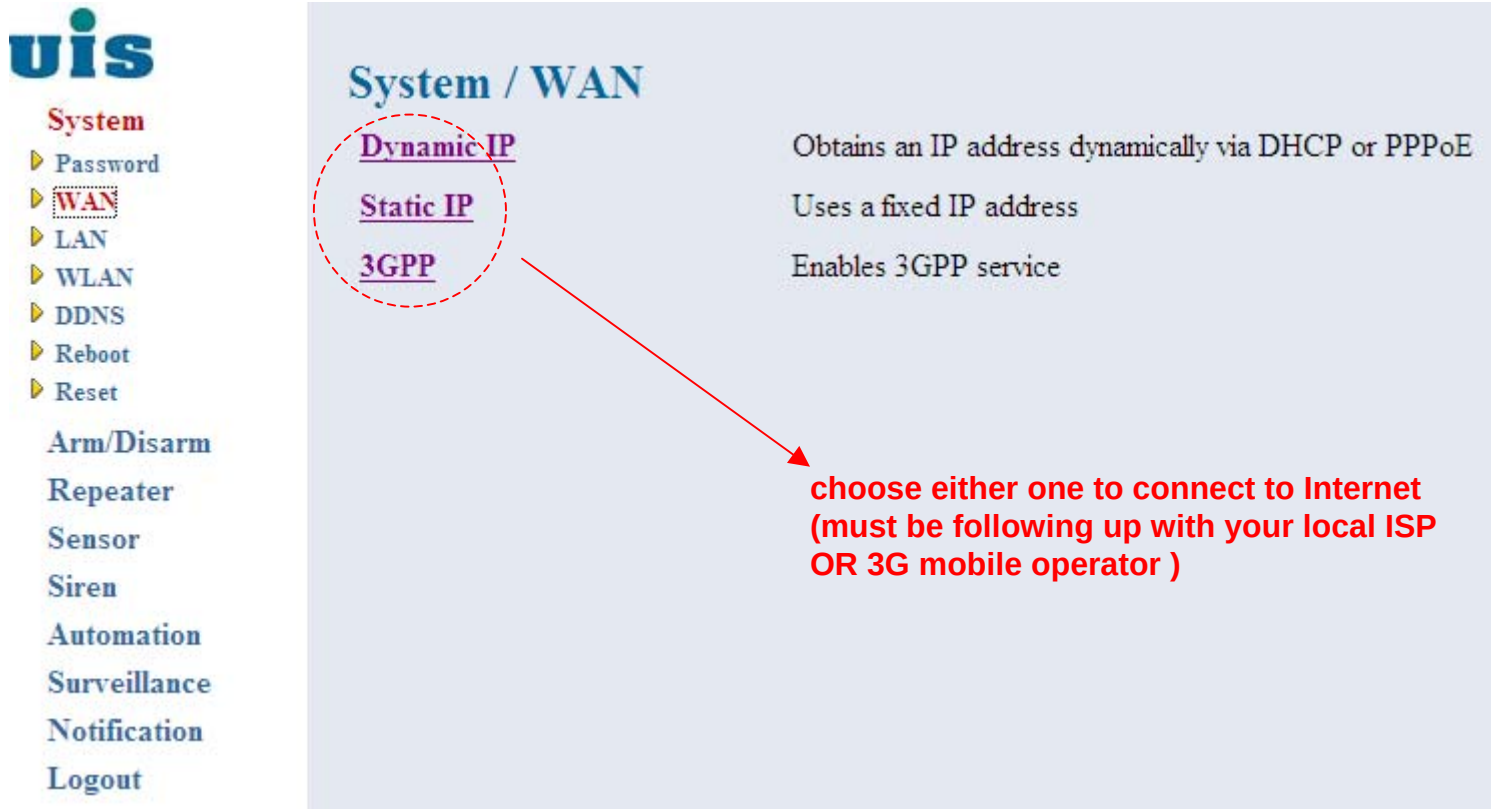
System Setup

Step 6：**Click “System” to change the console login password**



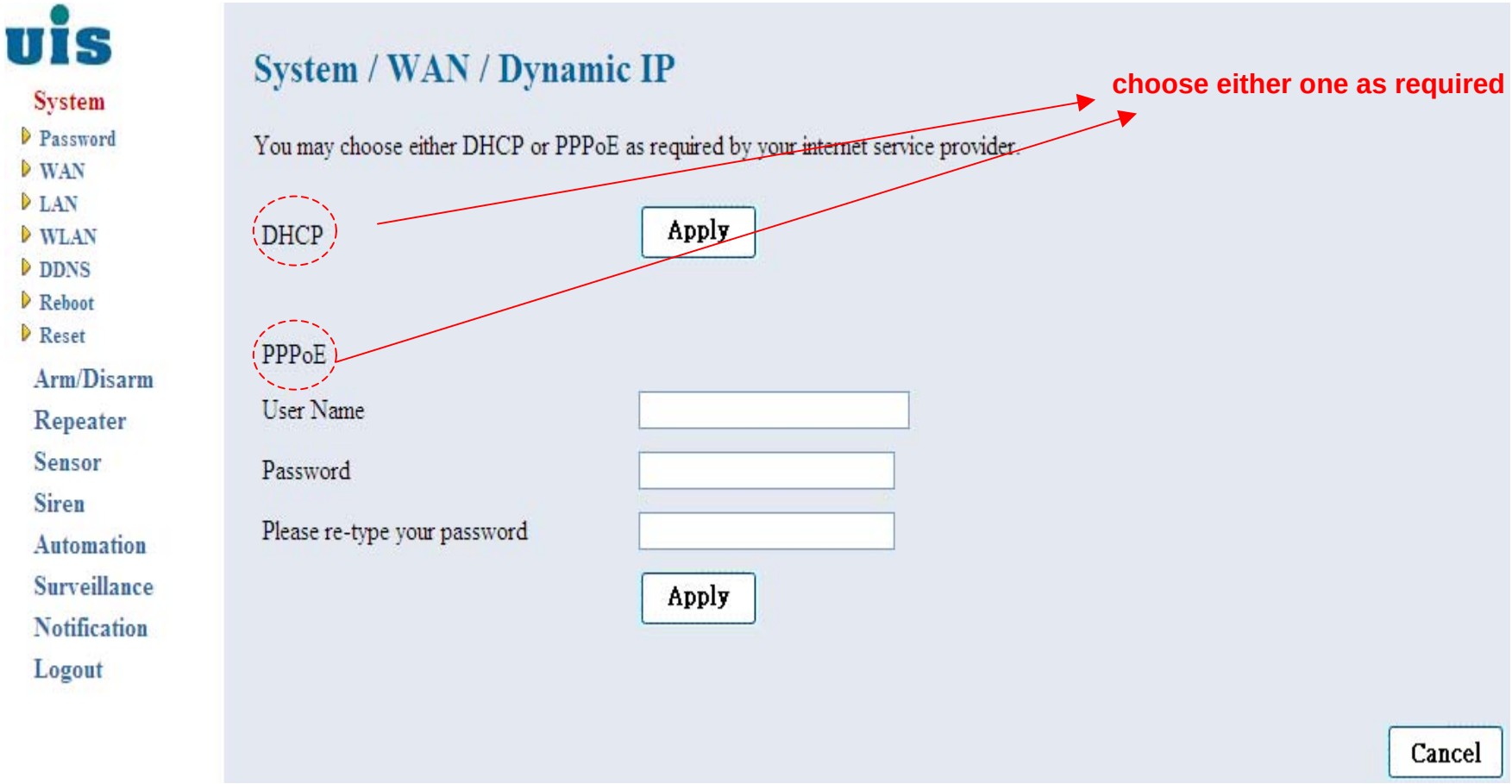
System Setup

Step 7：**Click “WAN” to configure Gateway’s WAN interface**



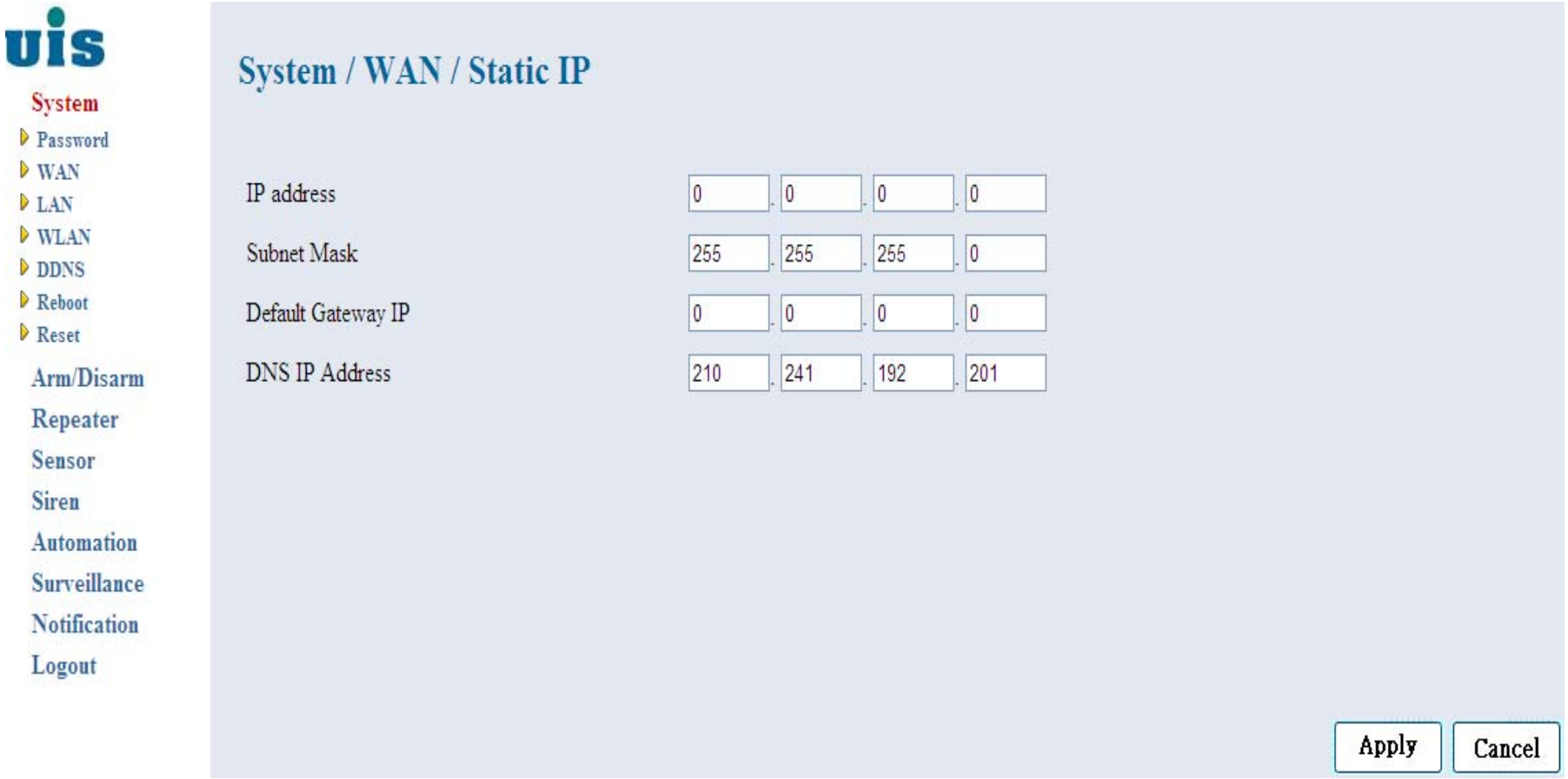
System Setup

Step 8：**Click “Dynamic IP” to configure Gateway’s WAN interface**



System Setup

Step 9：**Click “Static IP” to configure Gateway’s WAN interface**

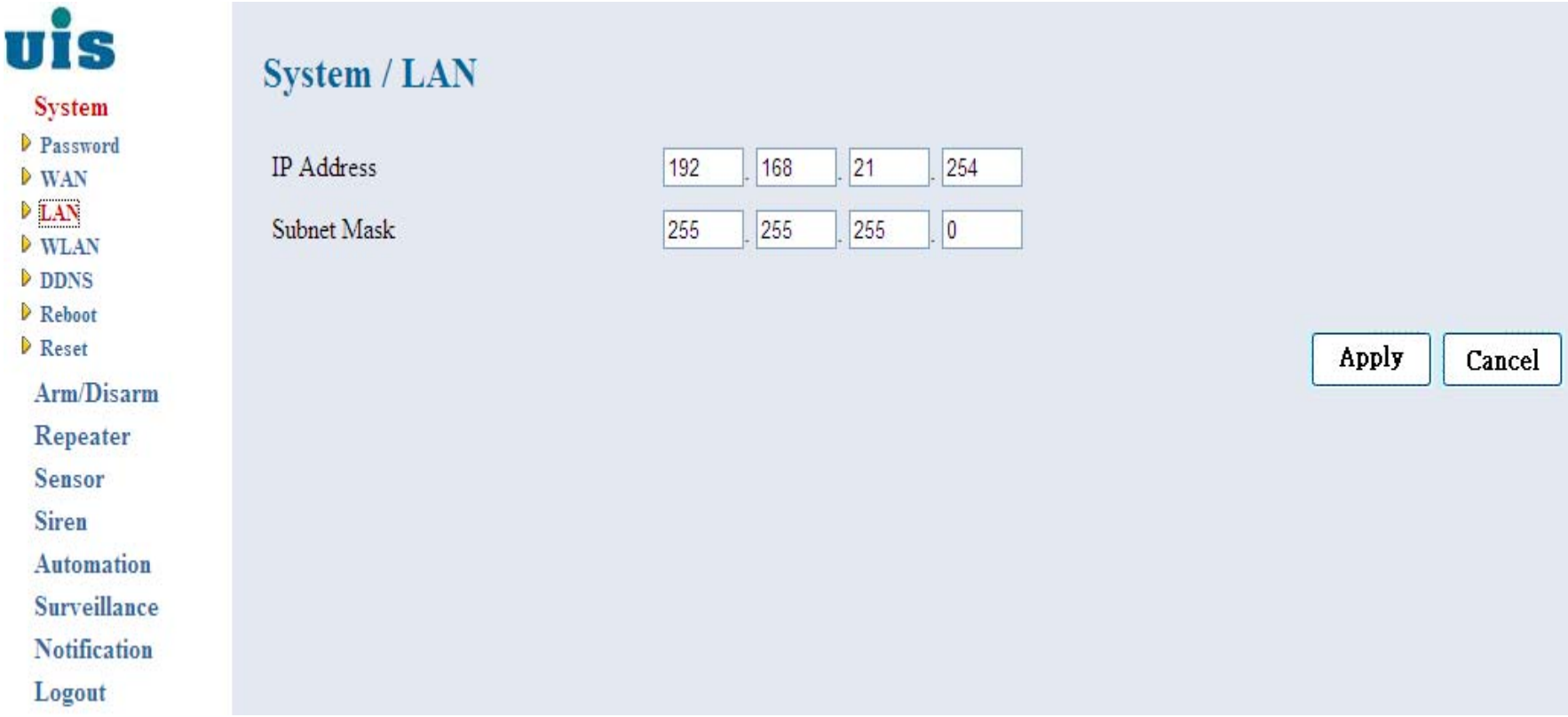


System Setup

Step 10：**Click “3GPP” to configure Gateway’s WAN(3G express card) interface**

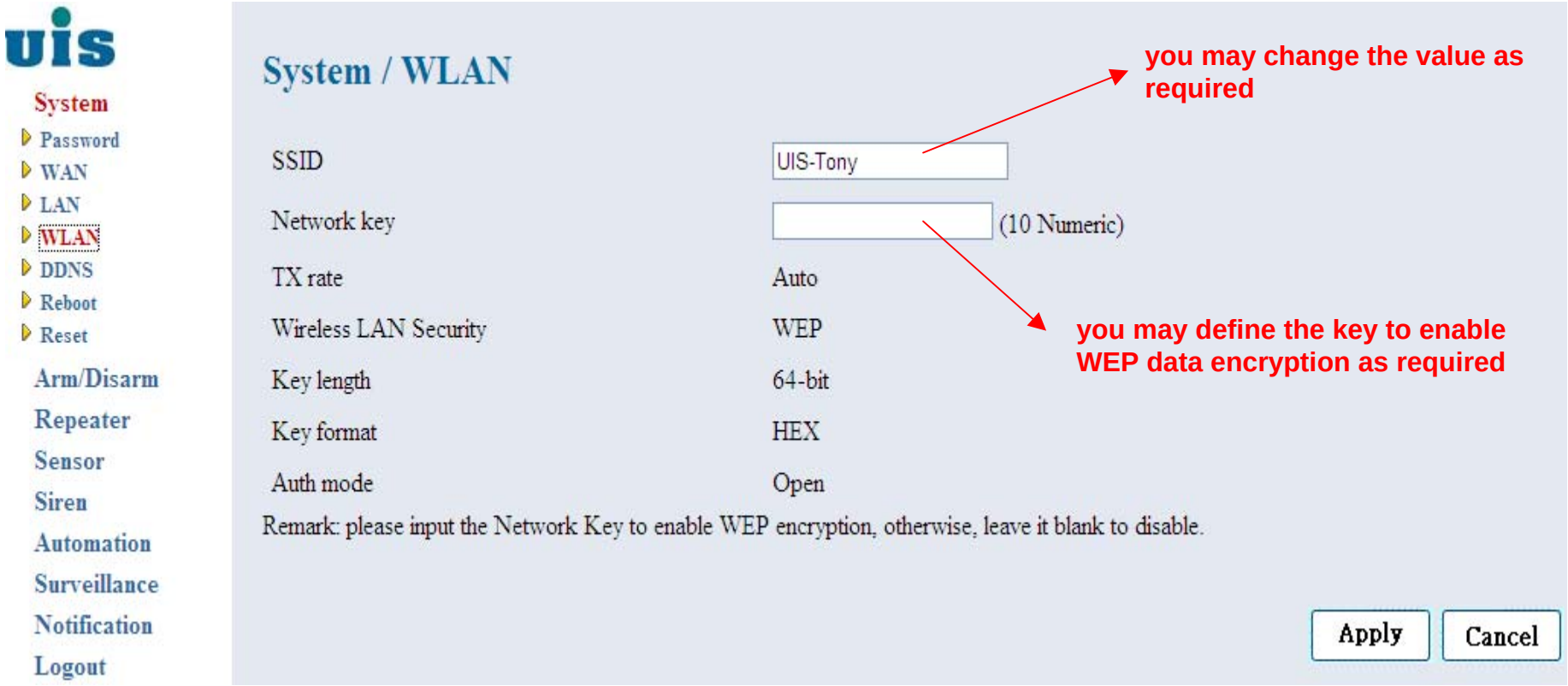
System Setup

Step 11：**Click “LAN” to configure Gateway’s LAN interface**



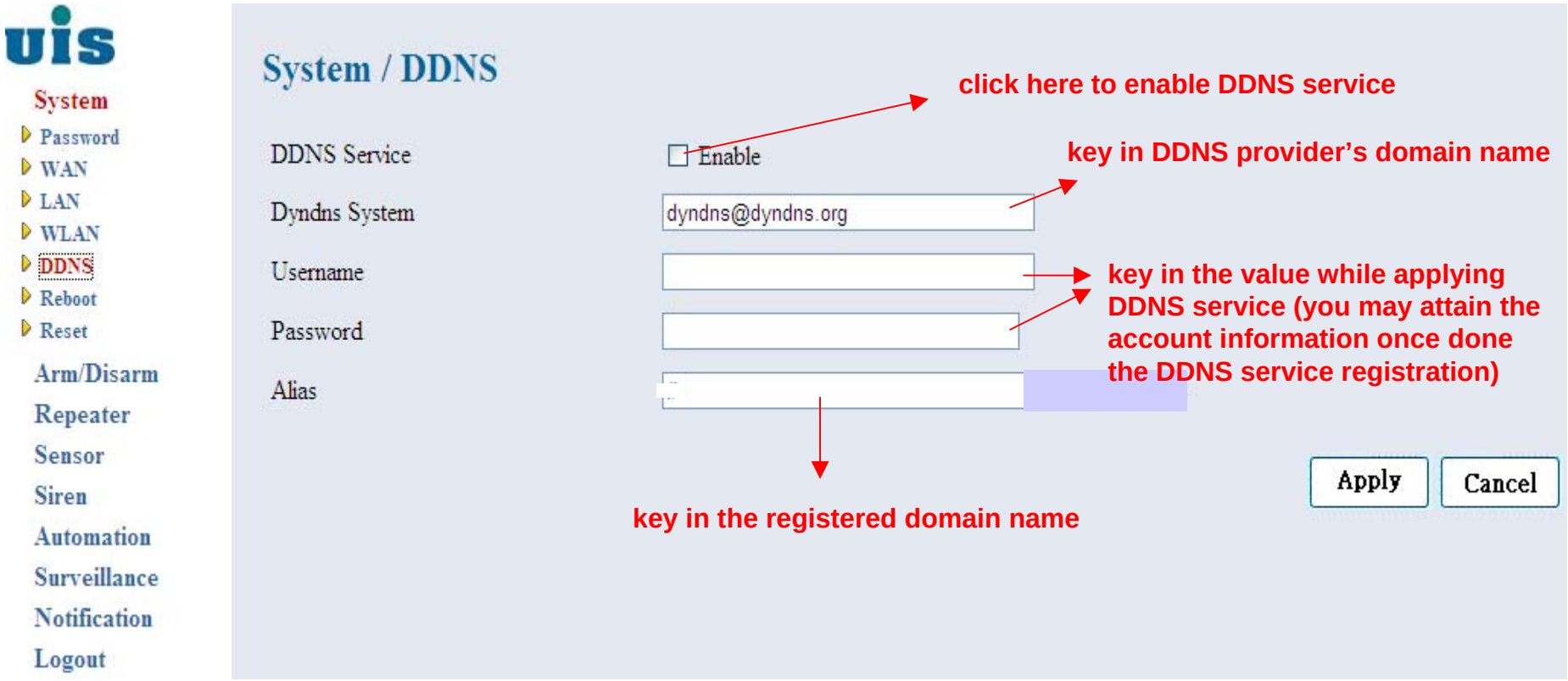
System Setup

Step 12：**Click “WLAN” to configure Gateway’s WLAN interface**



System Setup

Step 13：**Click “DDNS” to configure Gateway’s DDNS (Dynamic DNS) information**



System Setup

Step 14：**Click “Reboot” to power reboot the Gateway**

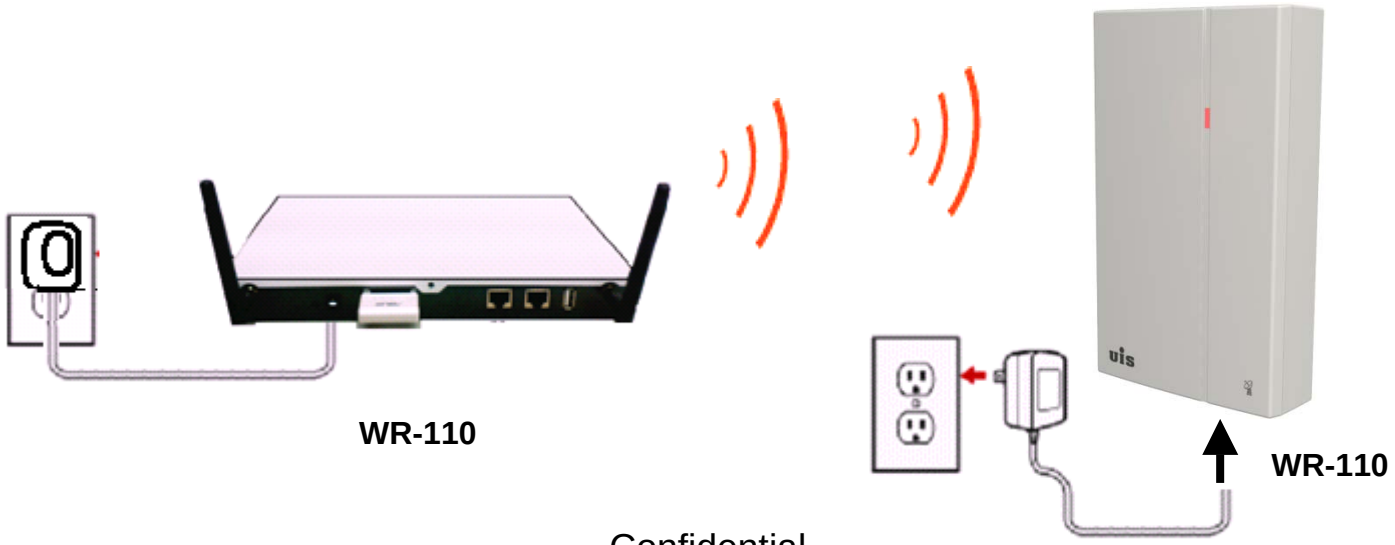
System Setup

Step 15：**Click “Reset” to reset all settings to the factory default and power reboot the Gateway**

Repeater Setup

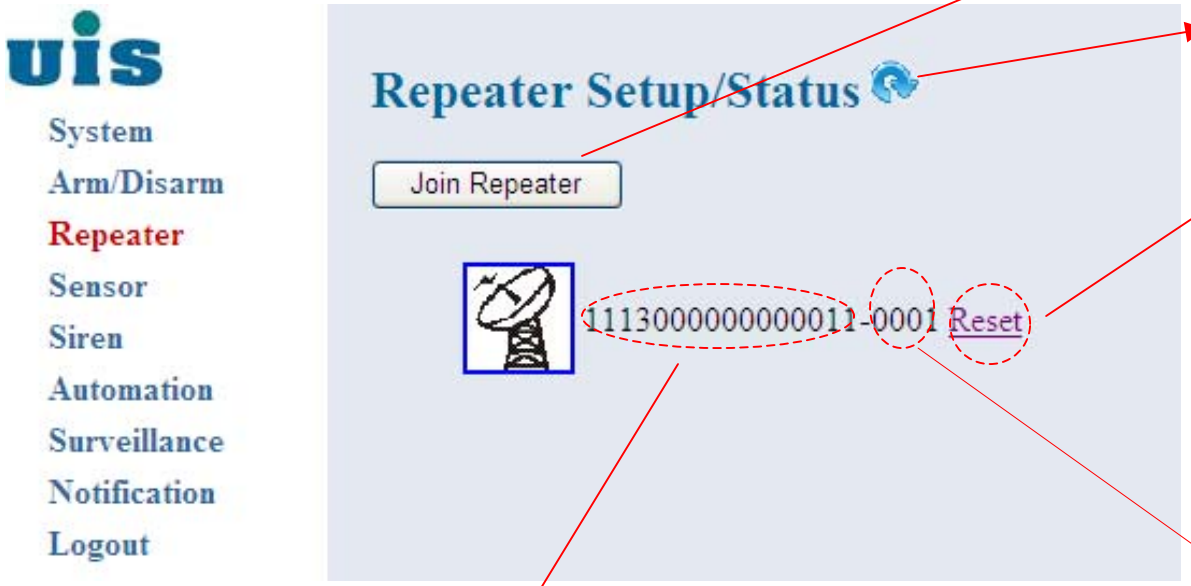
Step 16：**Power on the Wireless Repeater (WR-110) and get connected with Gateway**

- Plug adapter into the wall socket to power on the Repeater
- Push the back side “set” button of Repeater for 5 sec, the indicator will blink blue light twice and turn red light again
- Click “Join Repeater” button via the WR-110 console (see next page) to join the repeater
- Repeater’s indicator will turn blue light to sync up the access ID with WR-110
- Wait couple seconds or click the “Refresh” button to check out the result
- Repeat above steps to join the other repeaters
- The max. distance between Gateway and Repeater is 30M as suggested



Repeater Setup

Step 17：**Click “Repeater” to configure repeaters**



you can join multiple Repeaters thru here

Click here to refresh the status

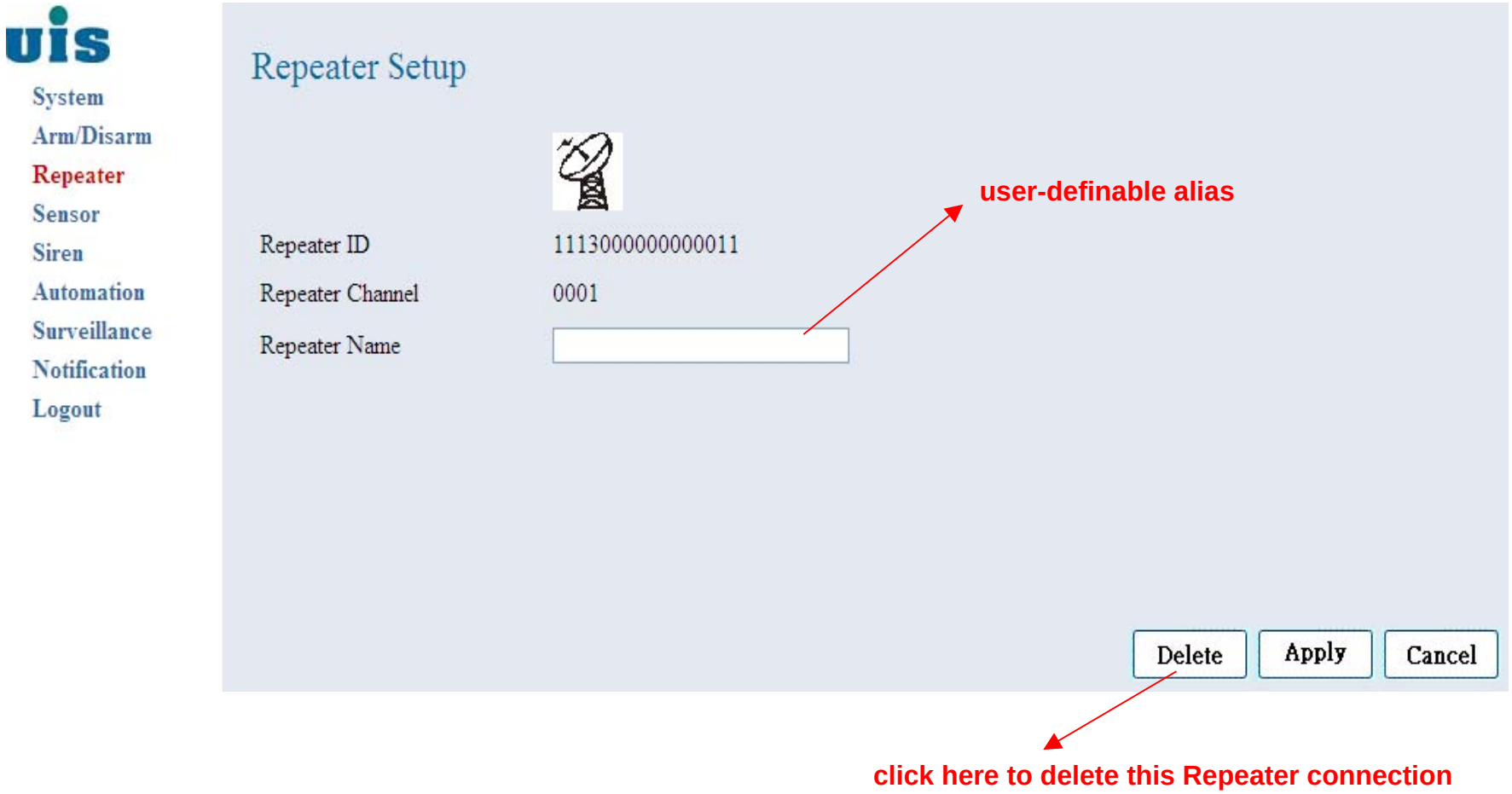
click here to clean all binding sensor information

the unique channel # between Repeater and Gateway

the ID has to be matched (Repeater vs. Gateway) to complete the binding

Repeater Setup

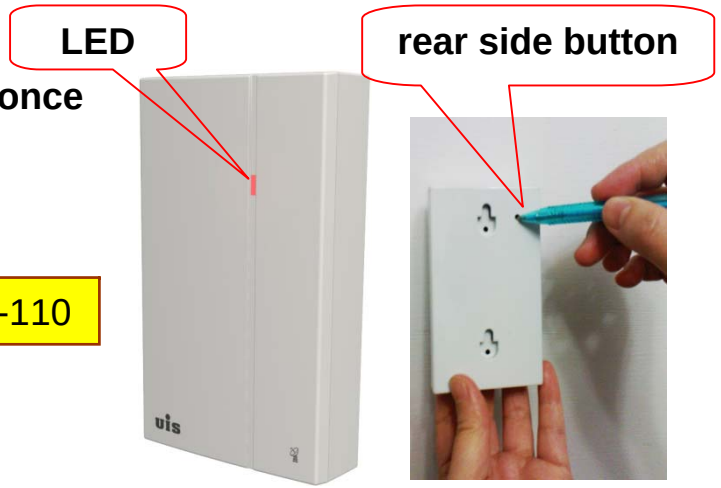
Step 18：**Click the specific Repeater to configure**



Device Binding

1. Push Repeater's button (rear side) once
2. Push Device's button (rear side or left side nearby logo) once
3. Verify if Device's LED flashes three times (red color) in sec and meanwhile, verify if Repeater's LED flashes once (blue color)
4. Repeat the above actions for all rest devices

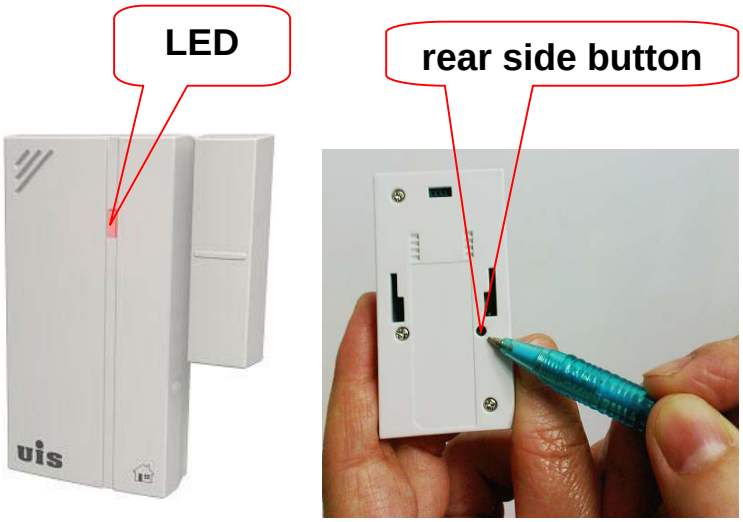
WR-110



Device means for:
- Sensor
- Siren
- Controller
- Transducer

Remarks:
- while binding Smoke Sensor, after pushing the button, it will alarm three times in sec
- while binding Siren, after pushing the button, the LED will flash three times in around 15 sec
- the max. distance between Sensor and Repeater is 10M as suggested
- Sensor will send status update to Repeater automatically in every 10 minutes
- Gateway will put Sensor as "disconnected" status if Gateway didn't get Sensor's keep-alive signal (via Repeater) in 30 minutes (10 min/time x 3)

WCS-110



Siren Setup

Step 19：**Click “Siren” to configure sirens**

silent mode

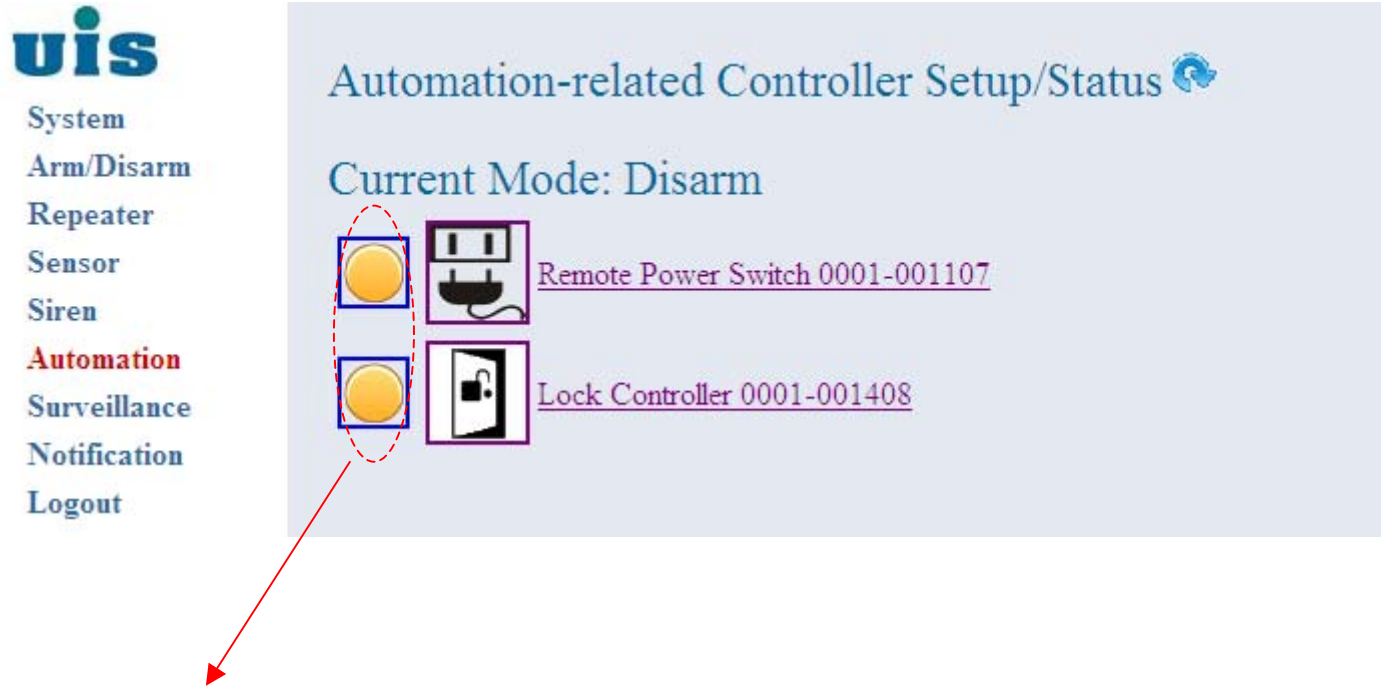
alarm mode

Siren Setup

Step 20：**Click the specific Siren to configure**

Automation Setup

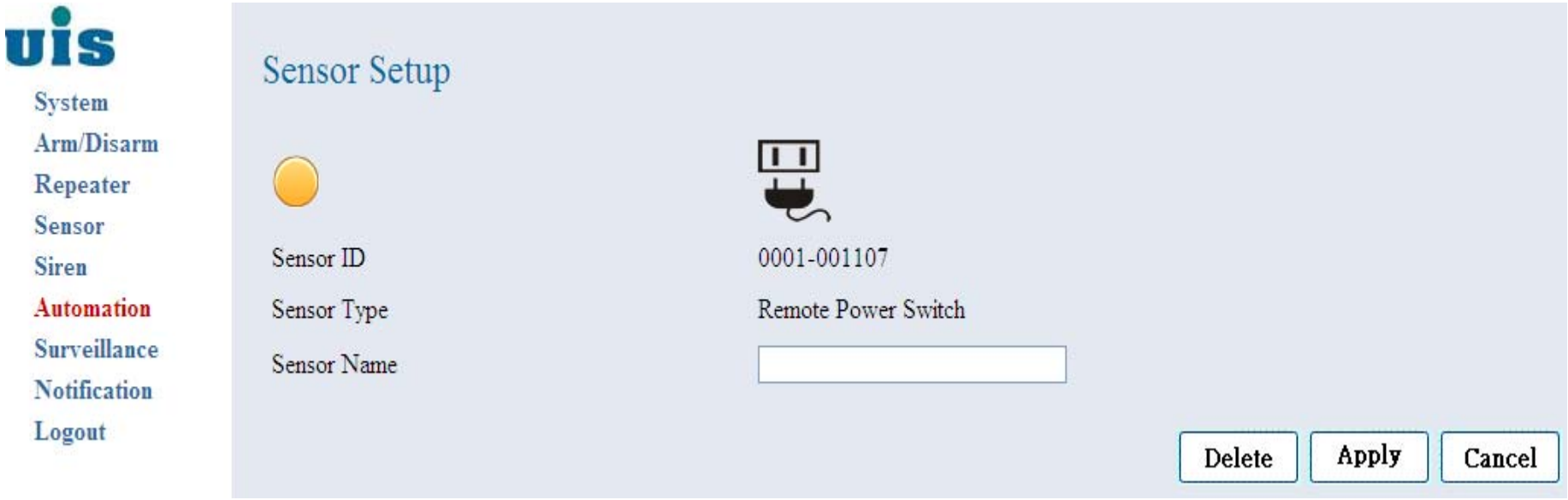
Step 21：**Click “Automation” to configure controllers**



Orange means “turned-off”
Green means “turned-on”

Automation Setup

Step 22：**Click the specific Power Controller to configure**

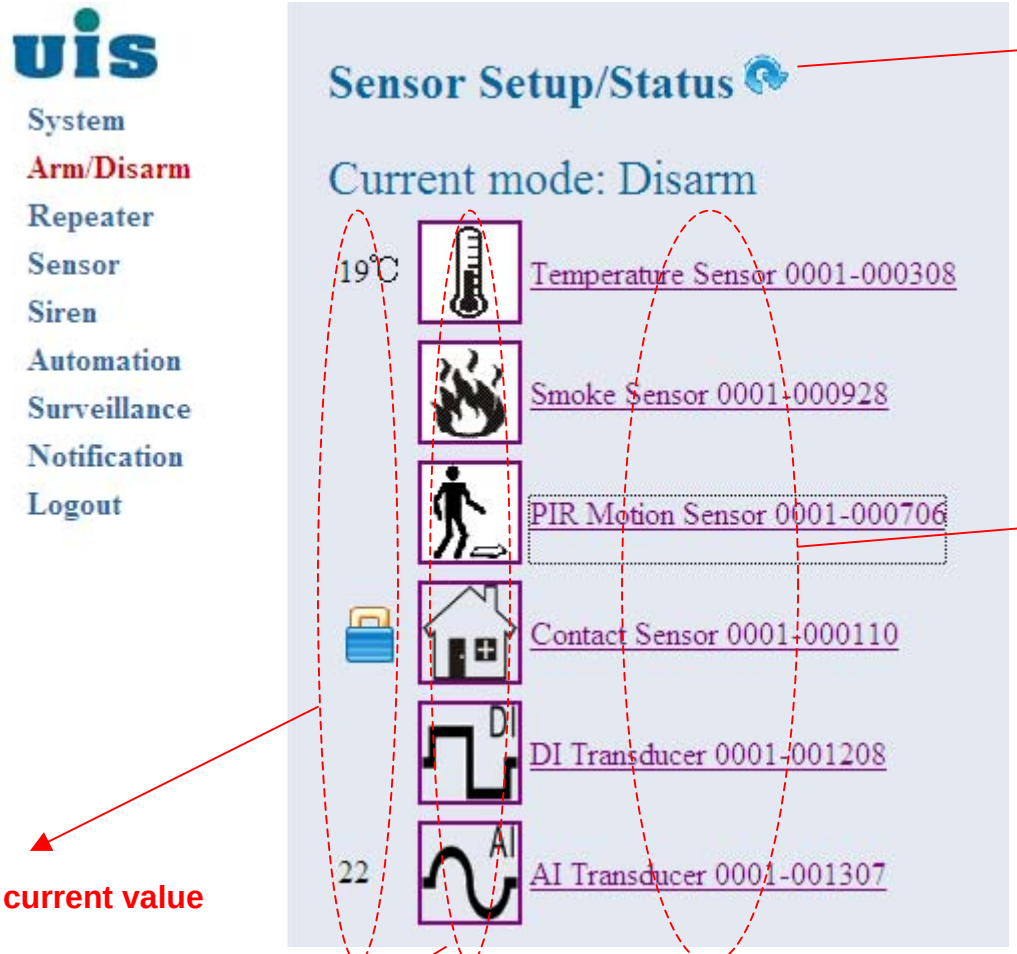


Automation Setup

Step 23：**Click the specific Lock Controller to configure**

Sensor Setup

Step 24 : Click “Sensor” to display all binding sensor information



click here to quick refresh all sensor status manually

Note:
- the console will be auto refreshed in every 20 sec

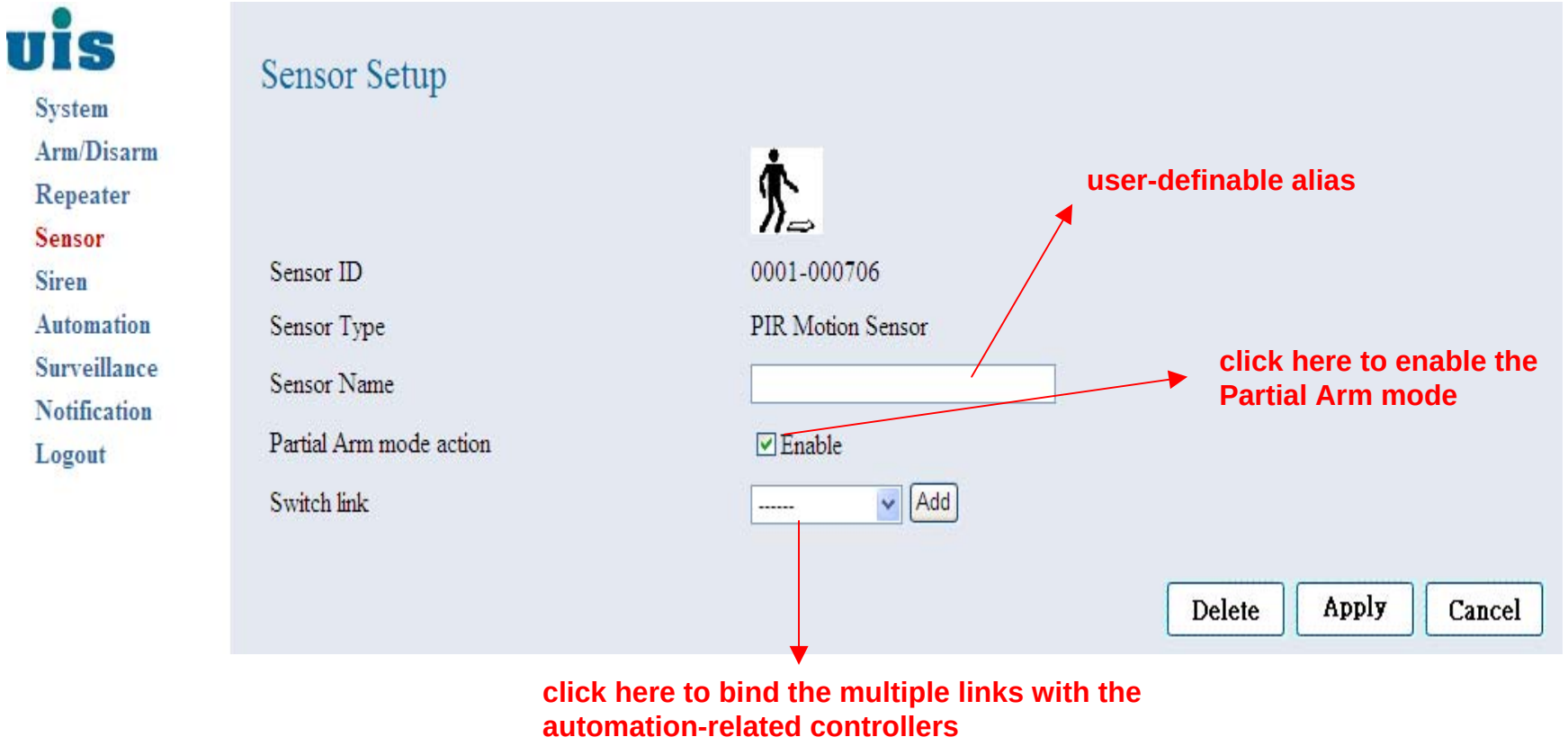
sensor name & id

sensor status or current value

sensor symbol

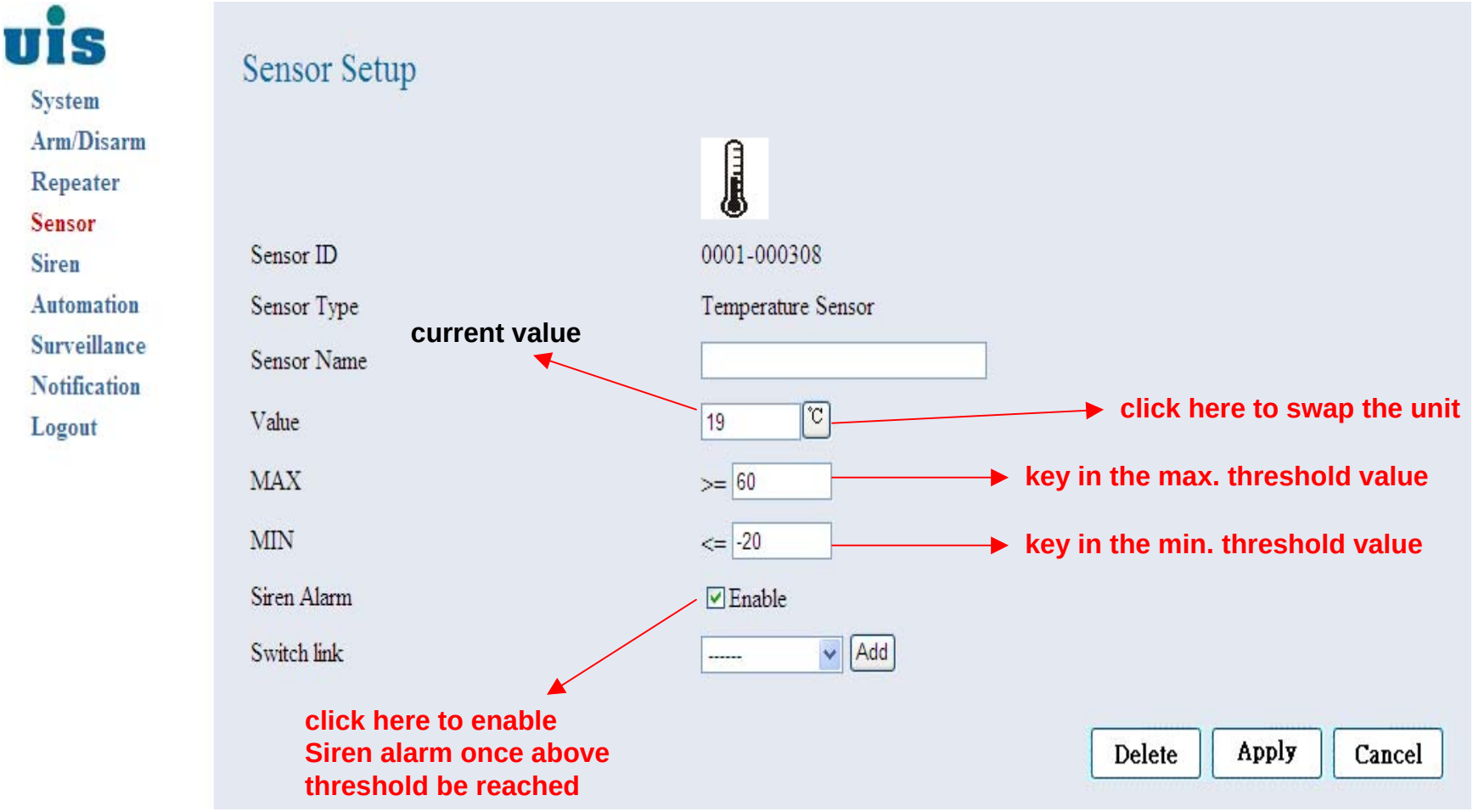
Sensor Setup

Step 25：**Click “PIR Motion Sensor” to configure**



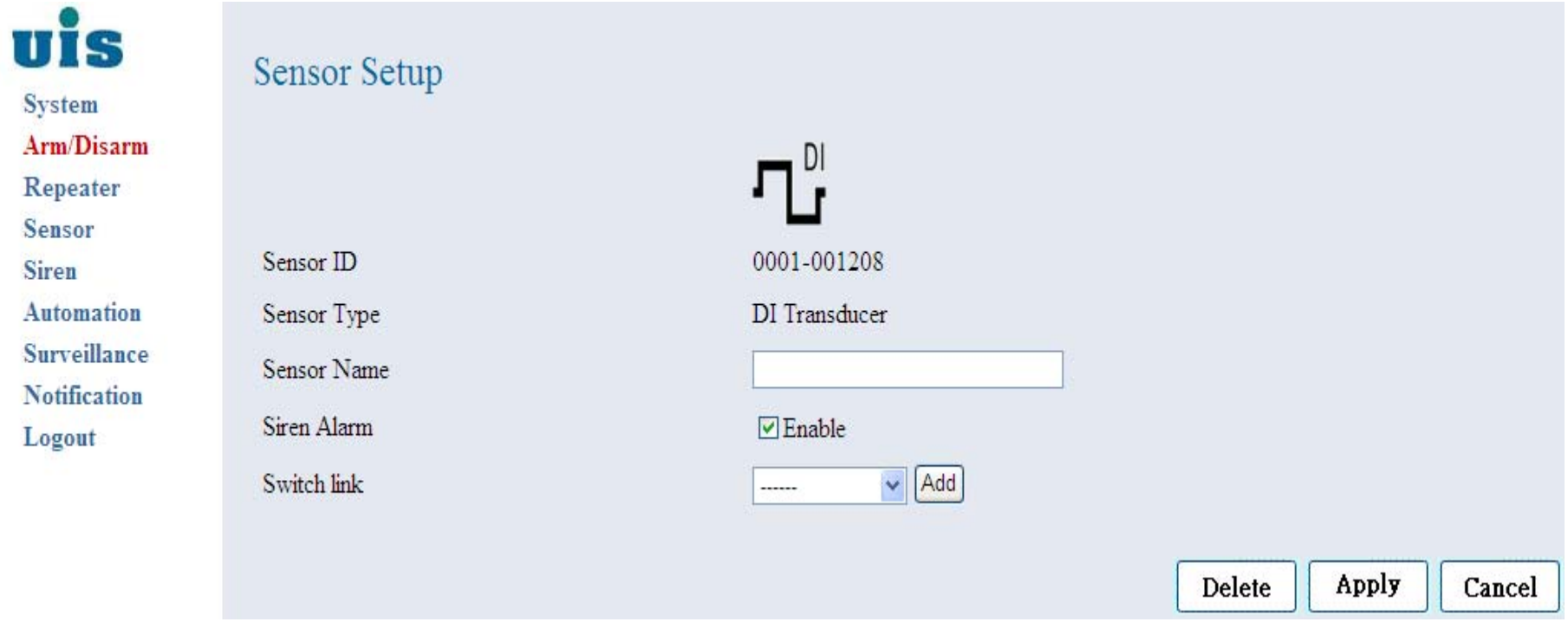
Sensor Setup

Step 26 : Click “Temperature Sensor” to configure



Sensor Setup

Step 27：**Click “DI Transducer” to configure**



Sensor Setup

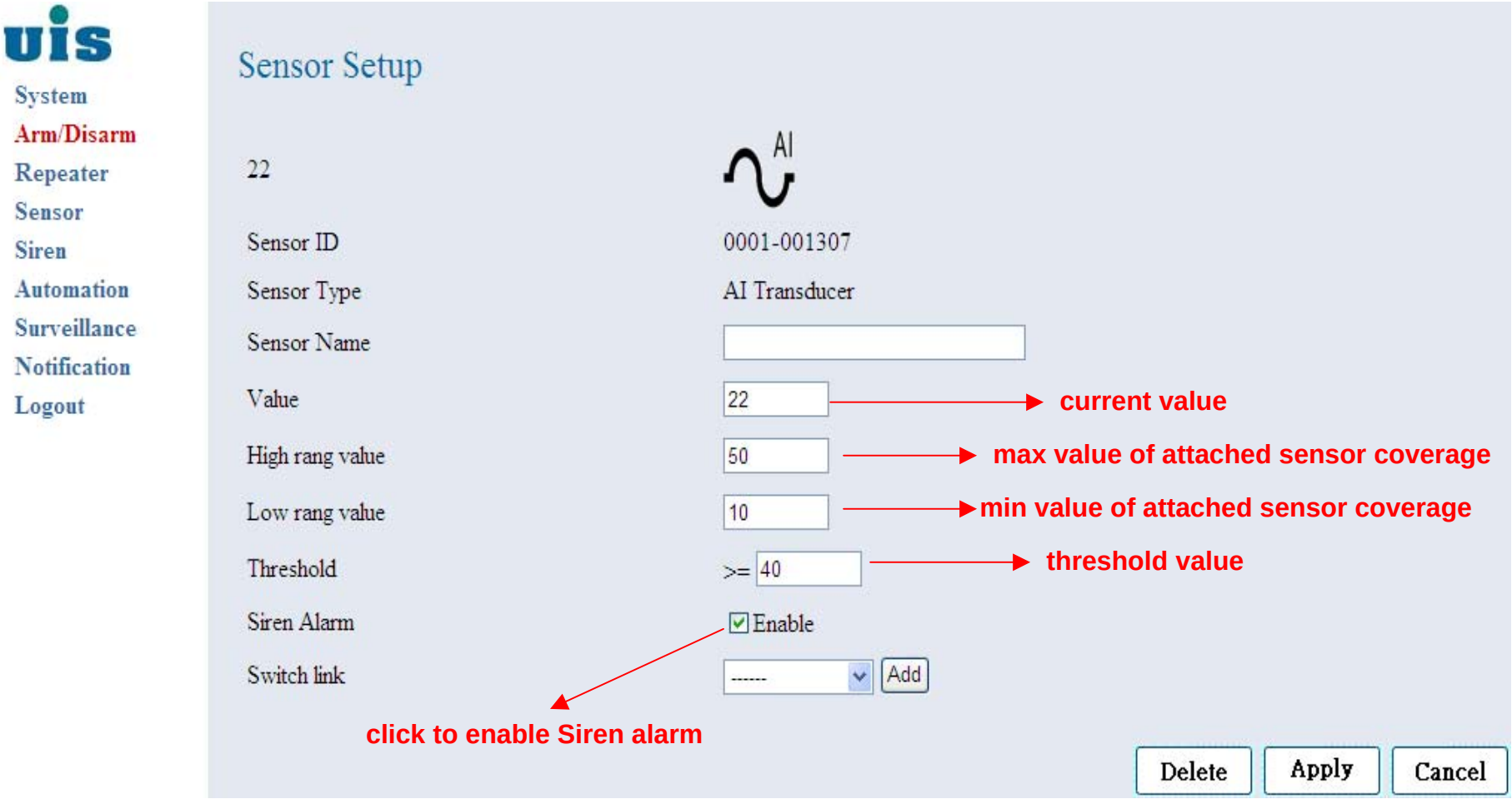
Step 28：**Click “Contact Sensor” to configure**

Sensor Setup

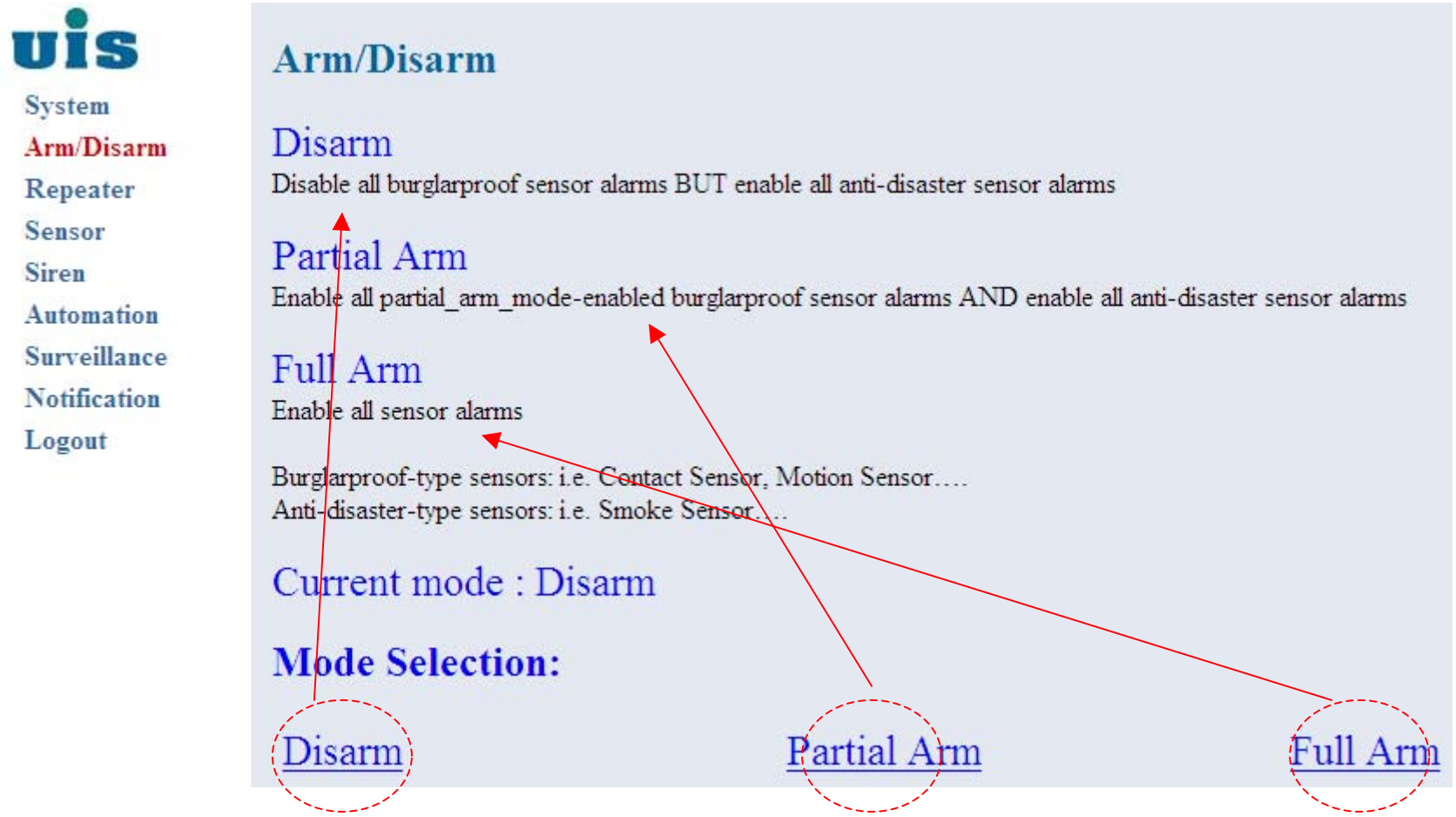
Step 29：**Click “Smoke Sensor” to configure**

Sensor Setup

Step 30：**Click “AI Transducer” to configure**

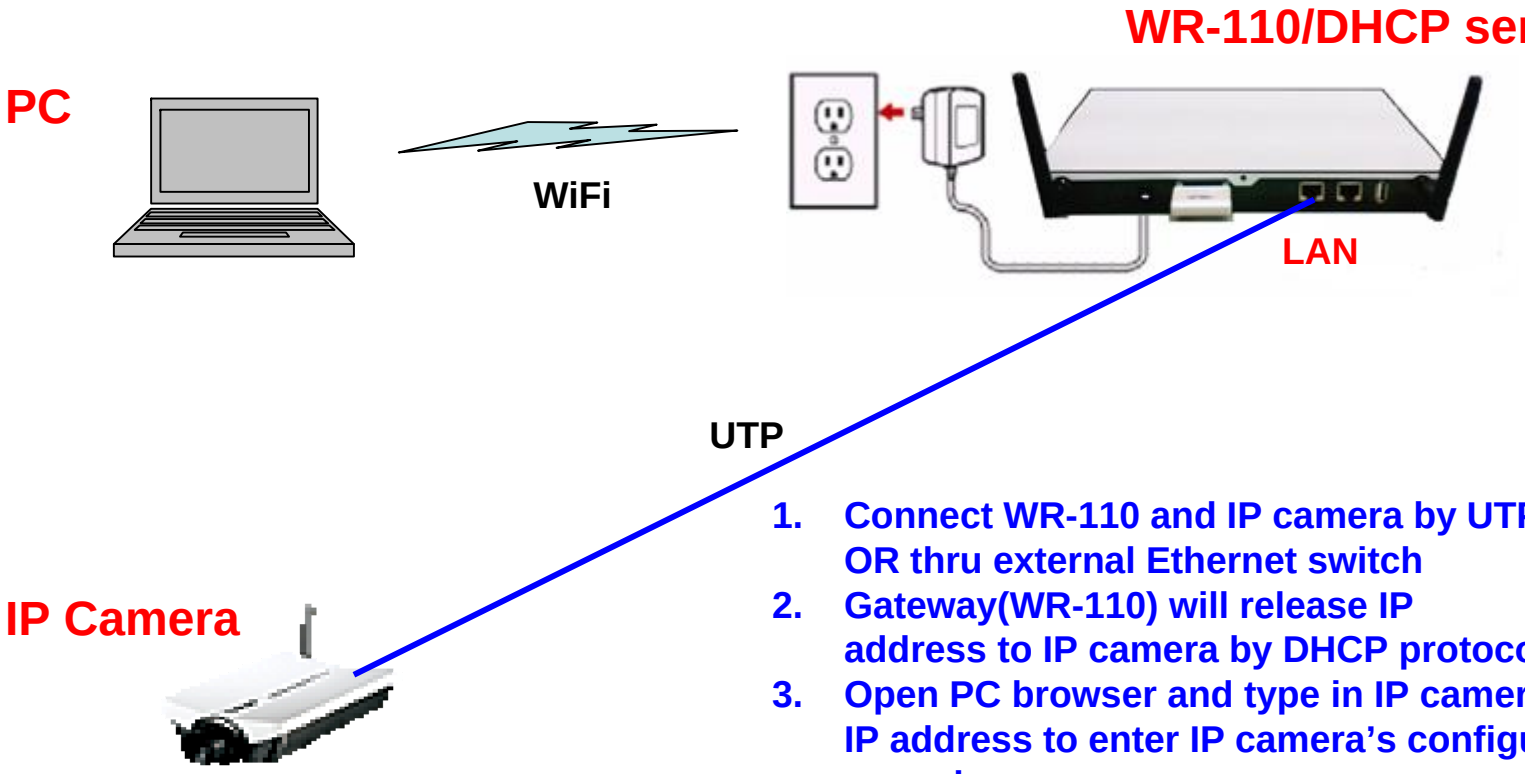


Arm/Disarm System



Surveillance Setup

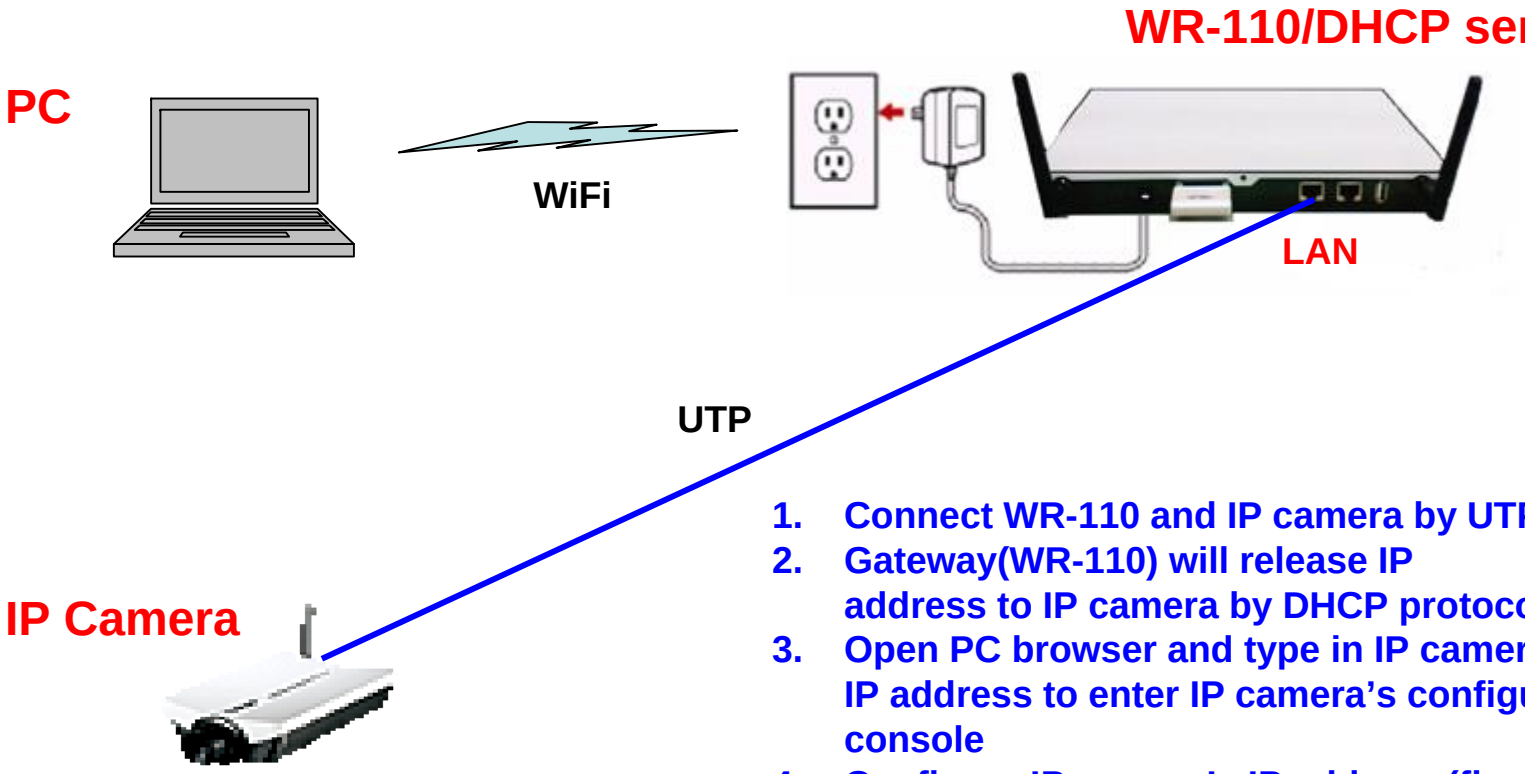
Step 31 : Set up 3rd-party wired IP camera



1. Connect WR-110 and IP camera by UTP cable OR thru external Ethernet switch
2. Gateway(WR-110) will release IP address to IP camera by DHCP protocol
3. Open PC browser and type in IP camera's IP address to enter IP camera's configuration console
4. Configure IP camera's IP address (fixed), WiFi SSID, HTTP port# and RTSP port#
5. Reboot both Gateway and IP camera

Surveillance Setup

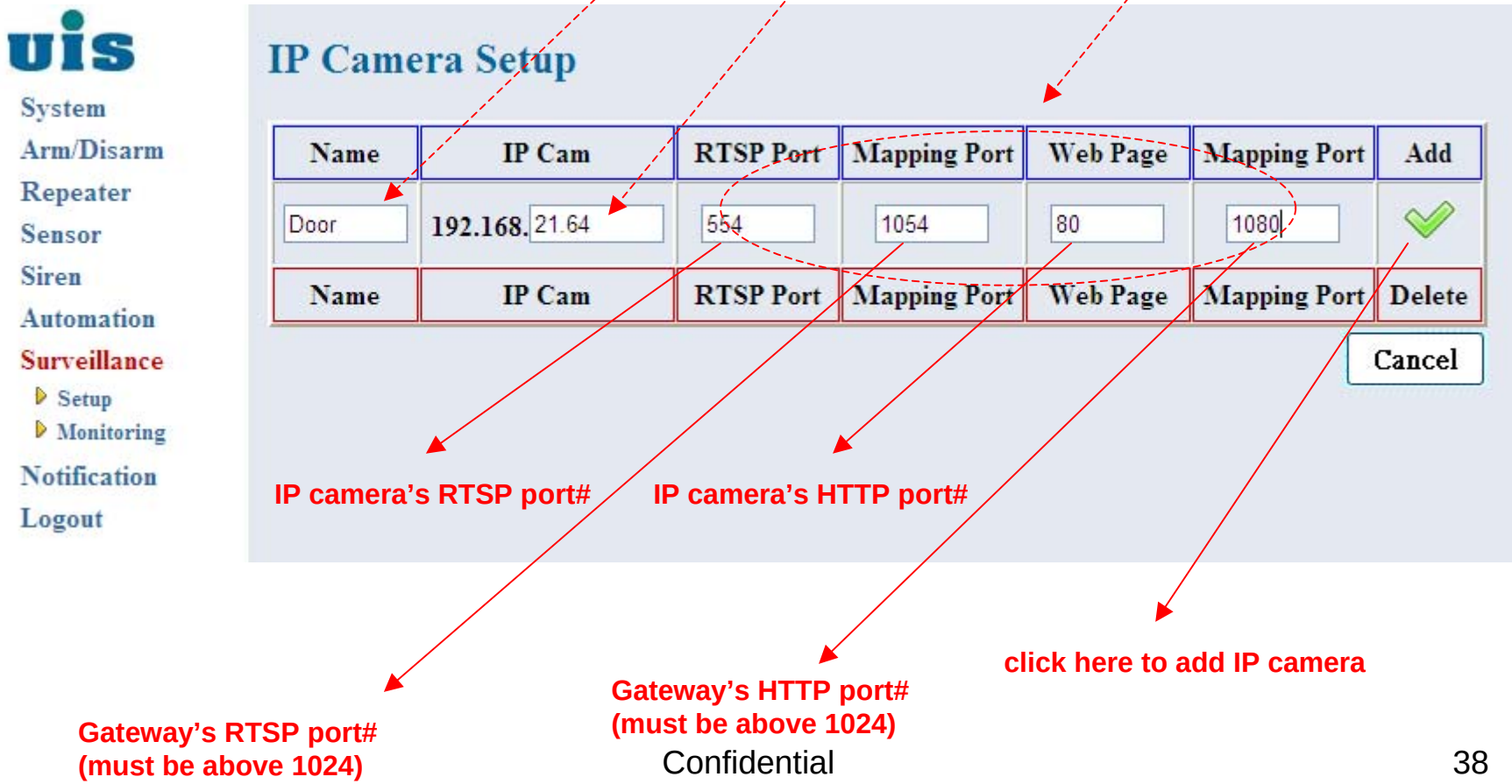
Step 31：**Set up 3rd-party wireless IP camera**



1. Connect WR-110 and IP camera by UTP cable
2. Gateway(WR-110) will release IP address to IP camera by DHCP protocol
3. Open PC browser and type in IP camera's IP address to enter IP camera's configuration console
4. Configure IP camera's IP address (fixed), WiFi SSID, HTTP port# and RTSP port#
5. Disconnect the UTP connection and reboot both Gateway and IP camera

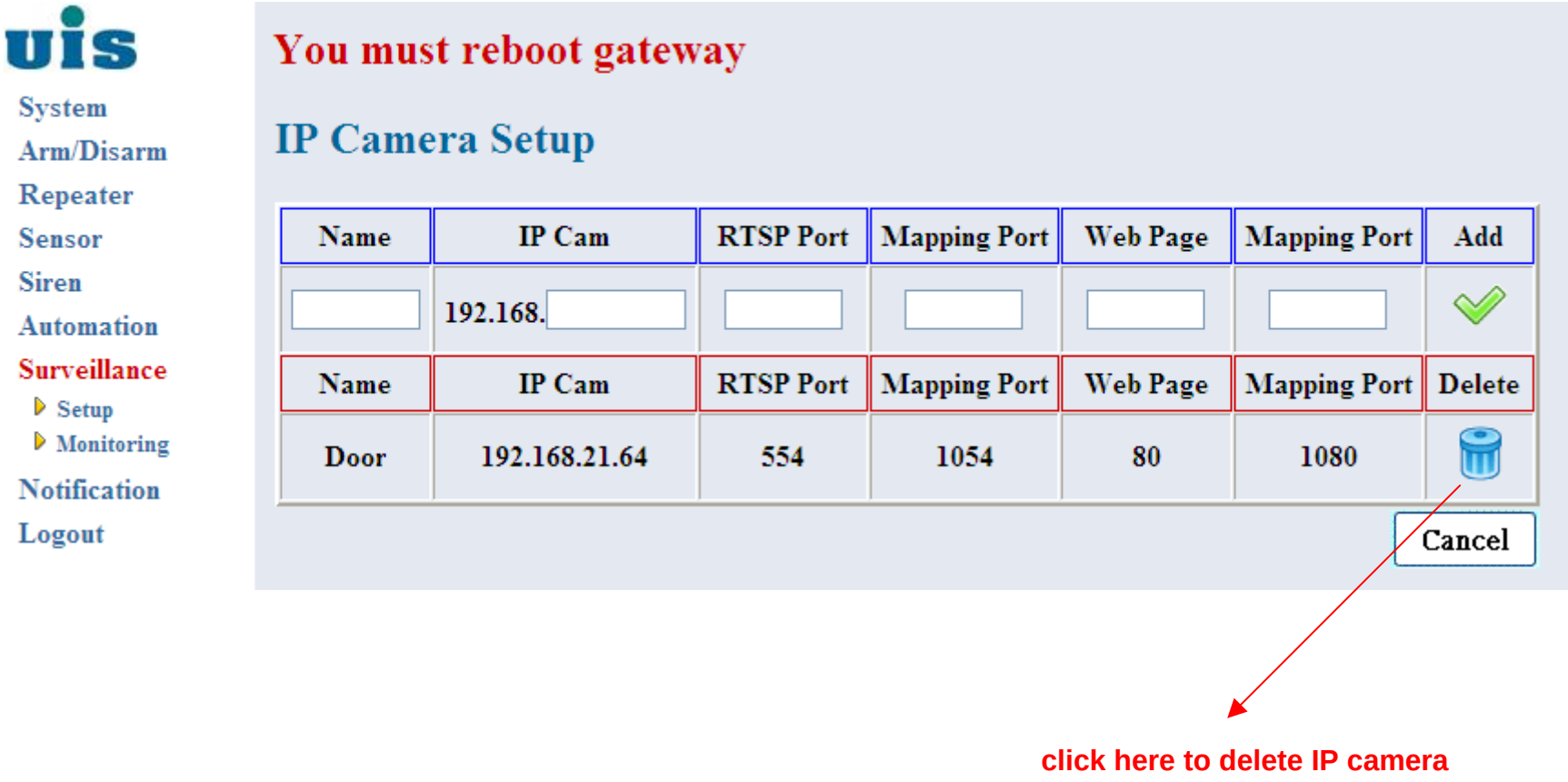
Surveillance Setup

Step 32：**Key in IP Camera's Alias, IP address, and Port mapping to add into**



Surveillance Setup

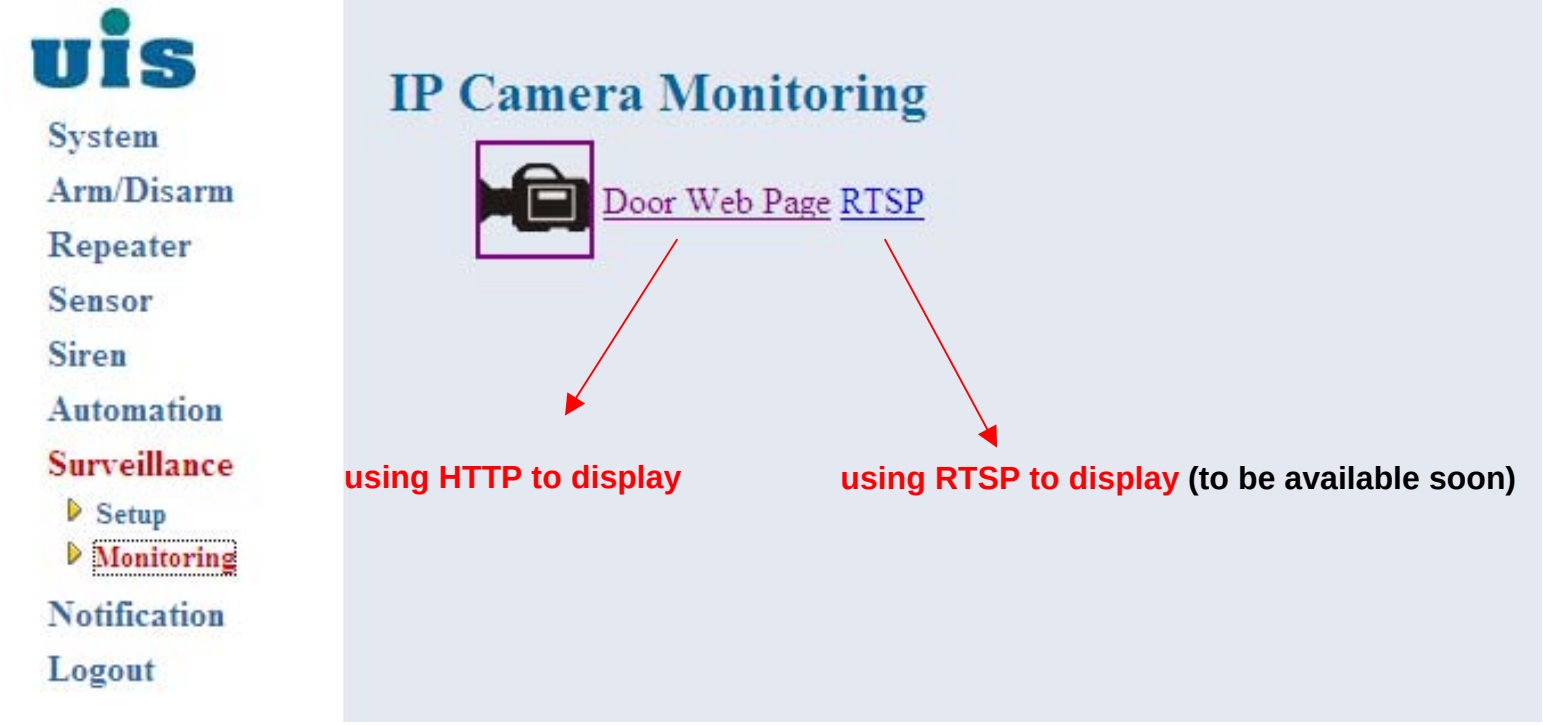
Step 33：Reboot Gateway to take effect



click here to delete IP camera

Surveillance Setup

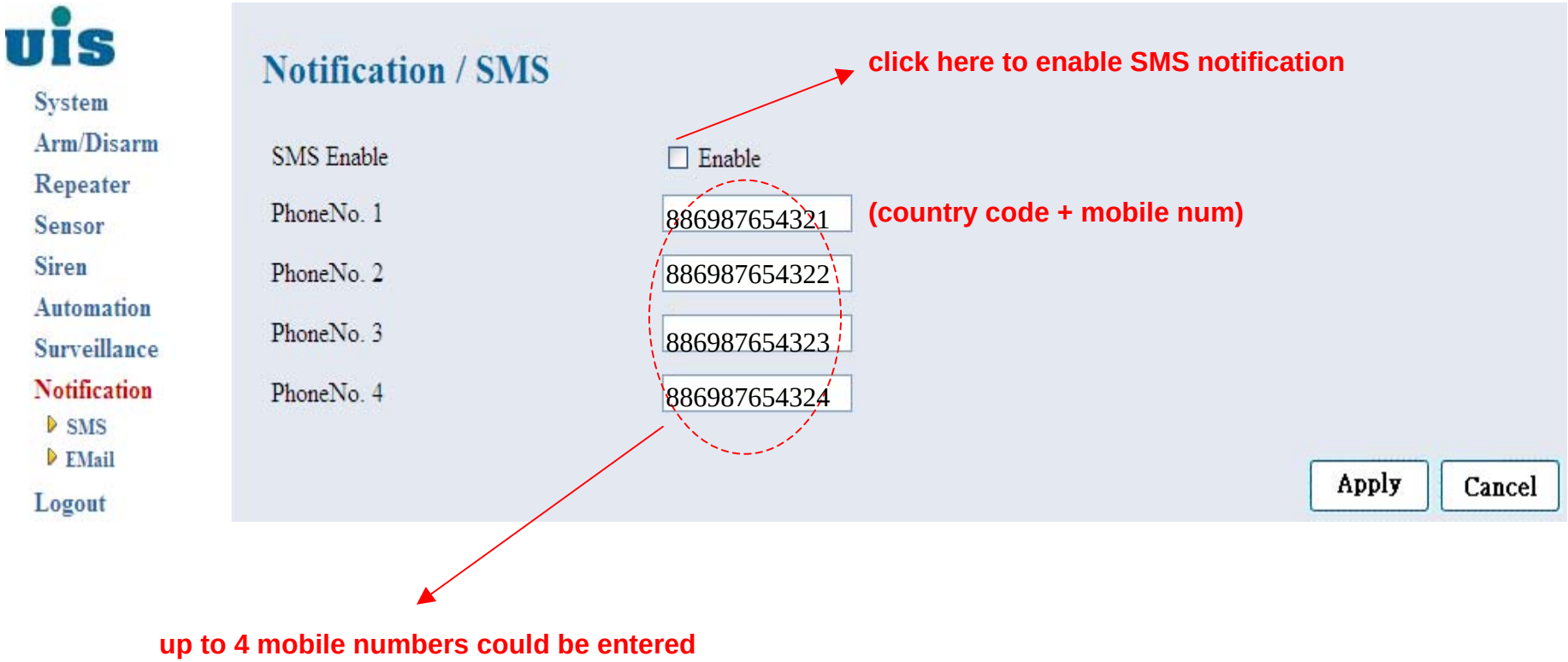
Step 34：**Choose IP camera to monitor**



Surveillance Setup

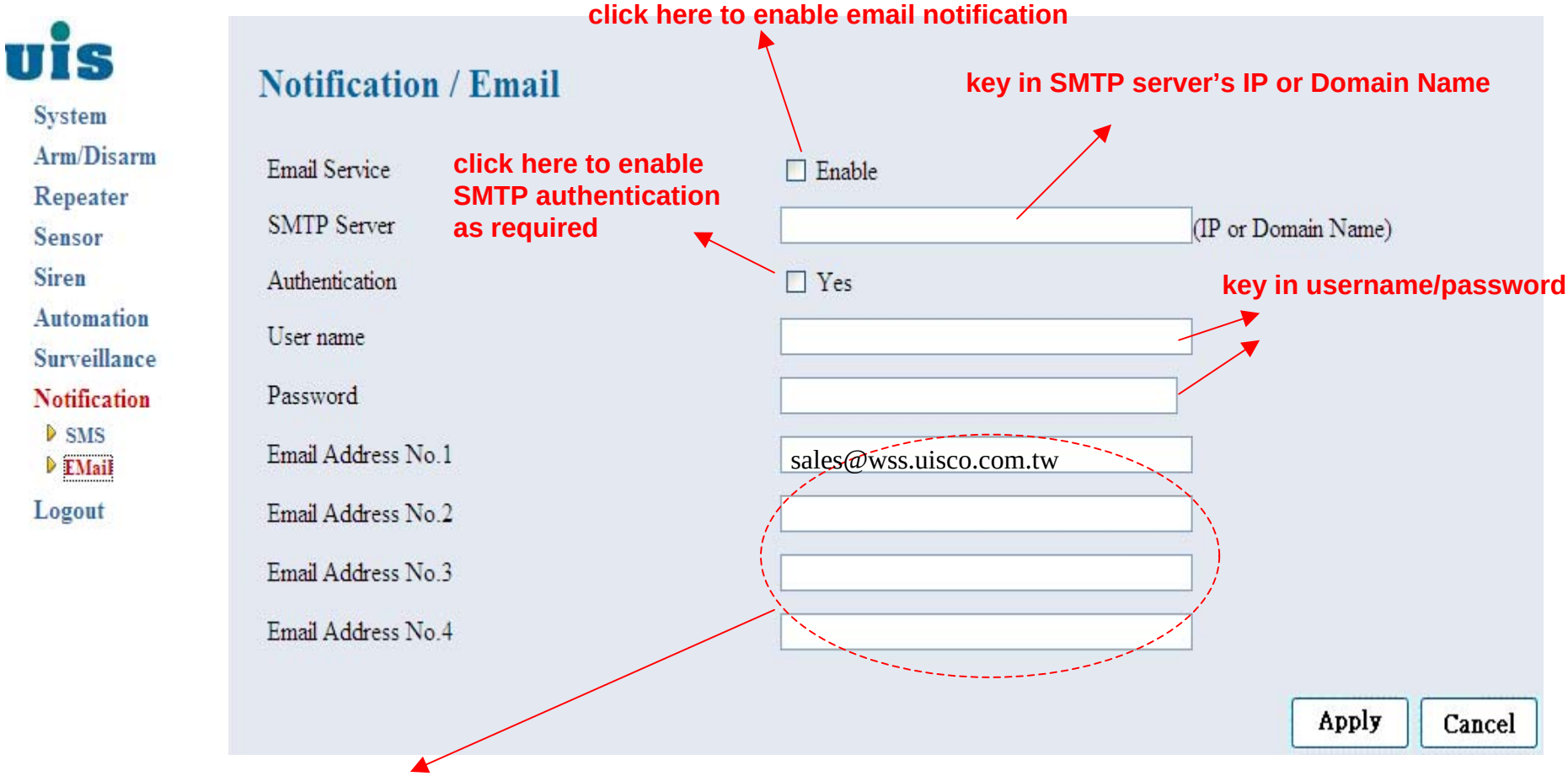
Notification Setup

Step 35：**Click “Notification” to configure SMS notifications**



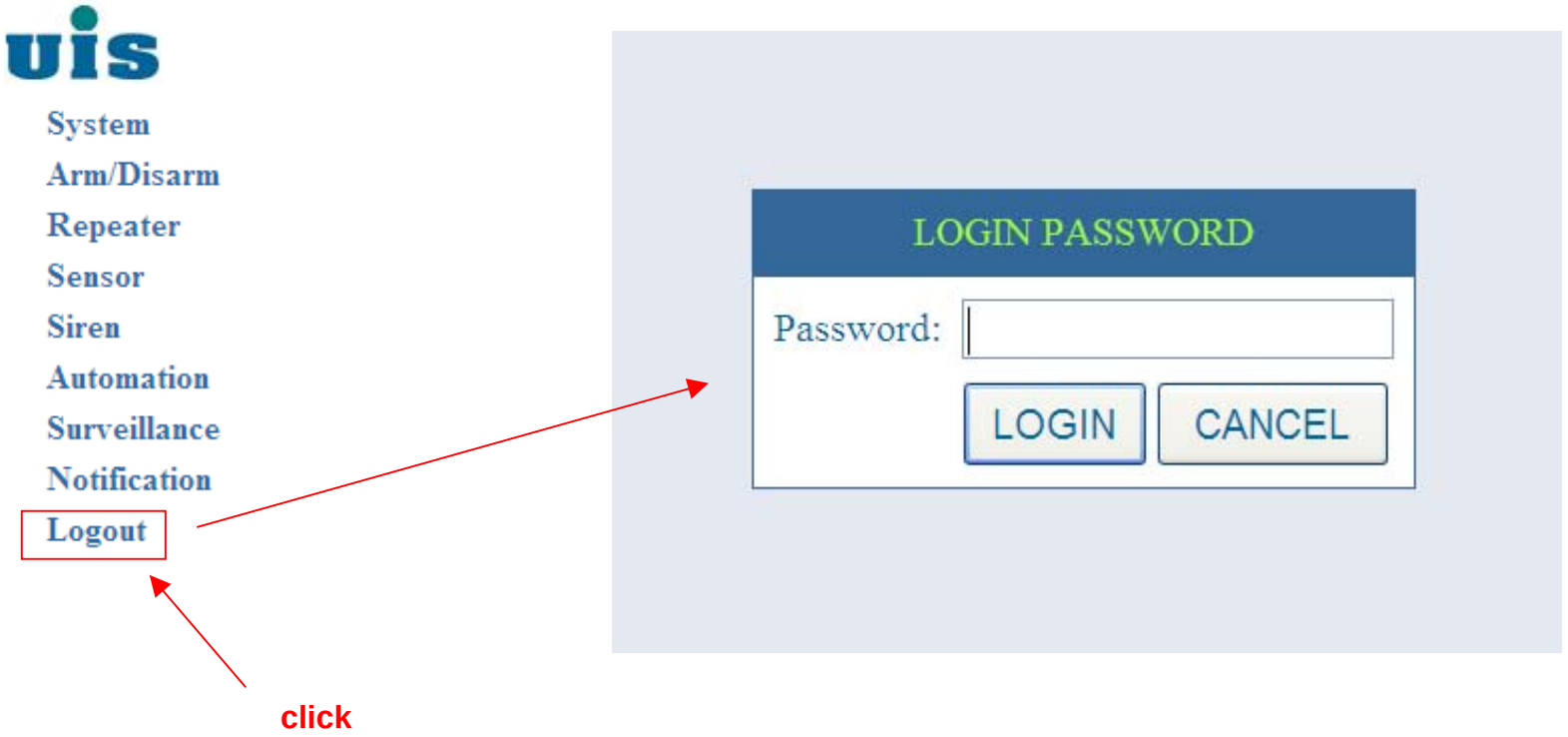
Notification Setup

Step 36：**Click “Notification” to configure Email notifications**



System Logout

Step 37：**Click “Logout” to logout the system**



WR-110
Touch Console Configuration Guide

WCC-110 / Front View

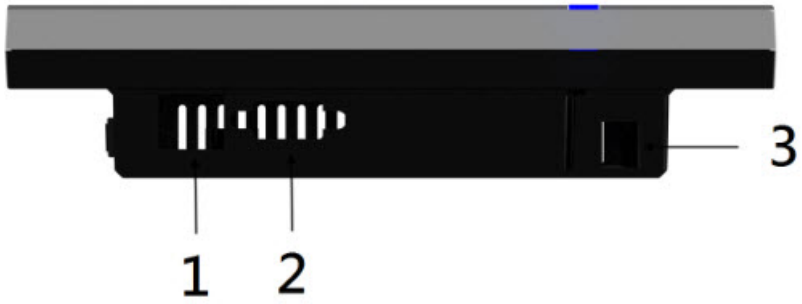
Arm/Disarm status indicators/
Boot status

Touch screen

Battery status
indicators

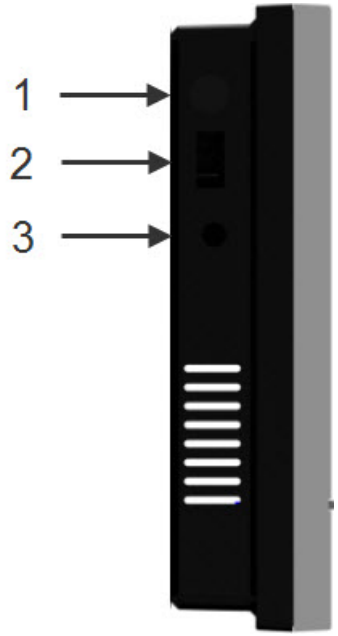
Item	Description
Touch screen	7” 800x480 16:9 WVGA TFT color LCD displays with Touch panel
Battery status indicators	Dual Color LED(Green, Red) to show the battery status of 1. In charging (AC power on) - Red LED blinking , 2.Battery discharge- Yellow continue , 3.low battery – Red LED continue on 4. Normal(AC power on, battery high) – Green LED continue on
Arm/Disarm status indicators/ Boot status	Dual Color(Blue,Red)LED to show the status of the Arm/Disarm Status 1.Full(Partial) Arm: Red LED blinking ; 2.Disarm: Blue continue on 3.Booting --Blue LED blinking

WCC-110 / Back View



#	Item	Description
1	Ethernet (RJ-45) port	Connects to an Ethernet 10/100 based network.
2	External display (VGA) port	Connects to a display device (e.g. external monitor, LCD projector.
3	DC-in jack	Connects to an AC adapter.

WCC-110 / Side View



#	Item	Description
1	Power button	Turn on/off Console Controller
2	USB 2.0/1.1 port	Connects to USB devices (e.g. USB camera, USB keyboard).
3	Speaker jack	Connects to audio devices (e.g. external speakers).

WCC-110 Setup

Power ON :

1. Plug in the power adapter
2. Push the power button to power on the device

WCC-110 Setup

WCC-110 Setup

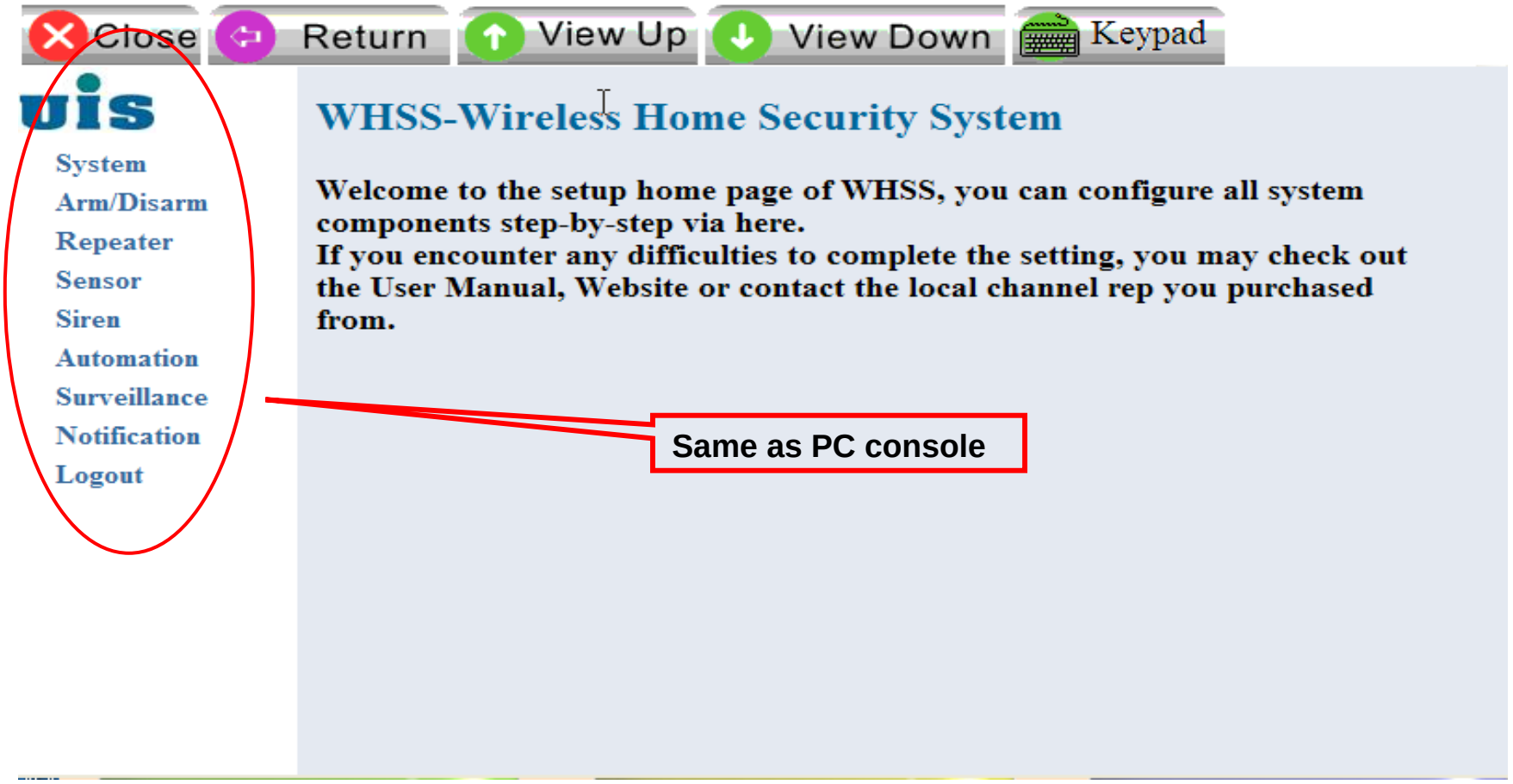
Click here to logout

Touch here to enter into the setup main console

To be available

Touch here to enter into the Gateway setup screen

WCC-110 Setup

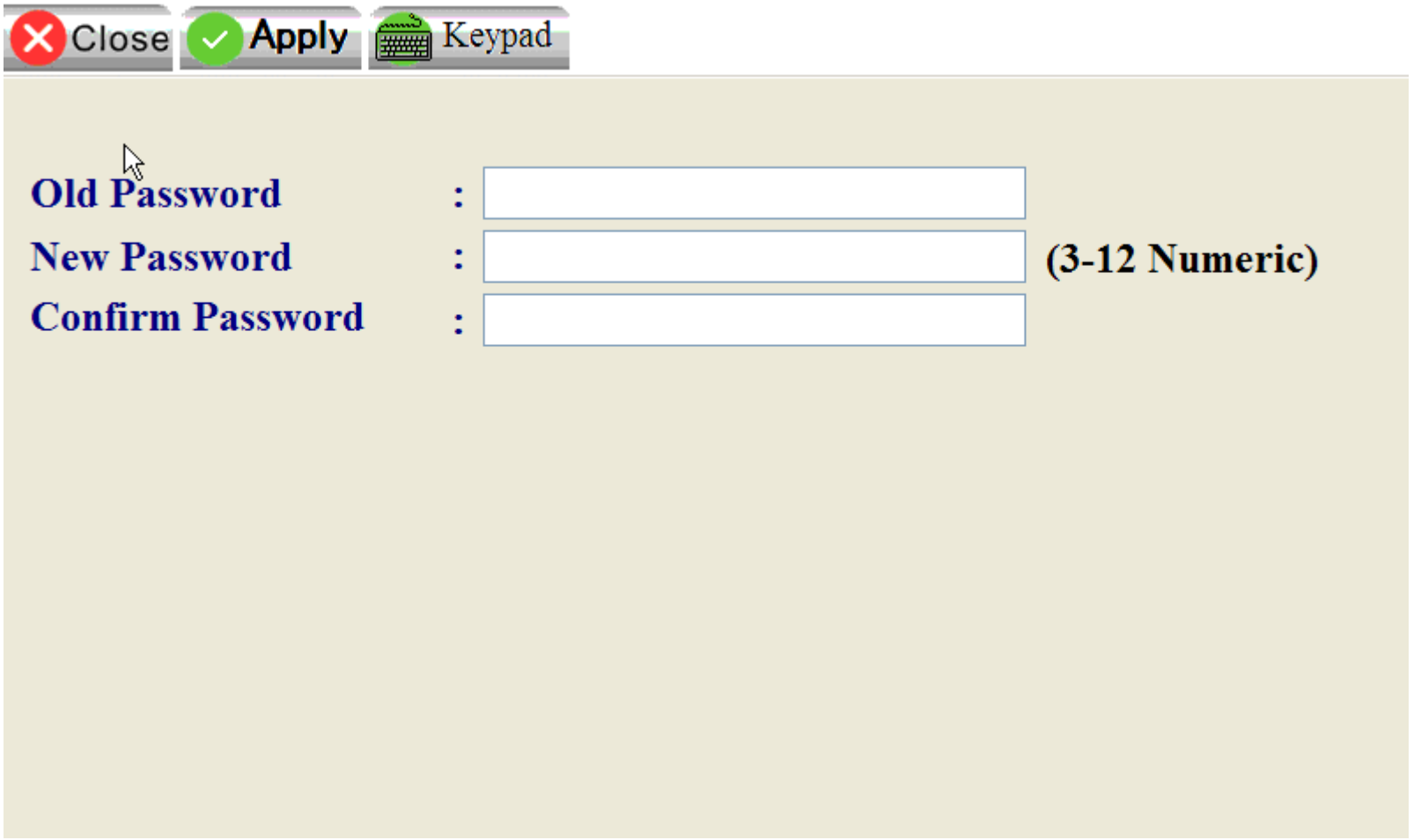


WCC-110 Setup

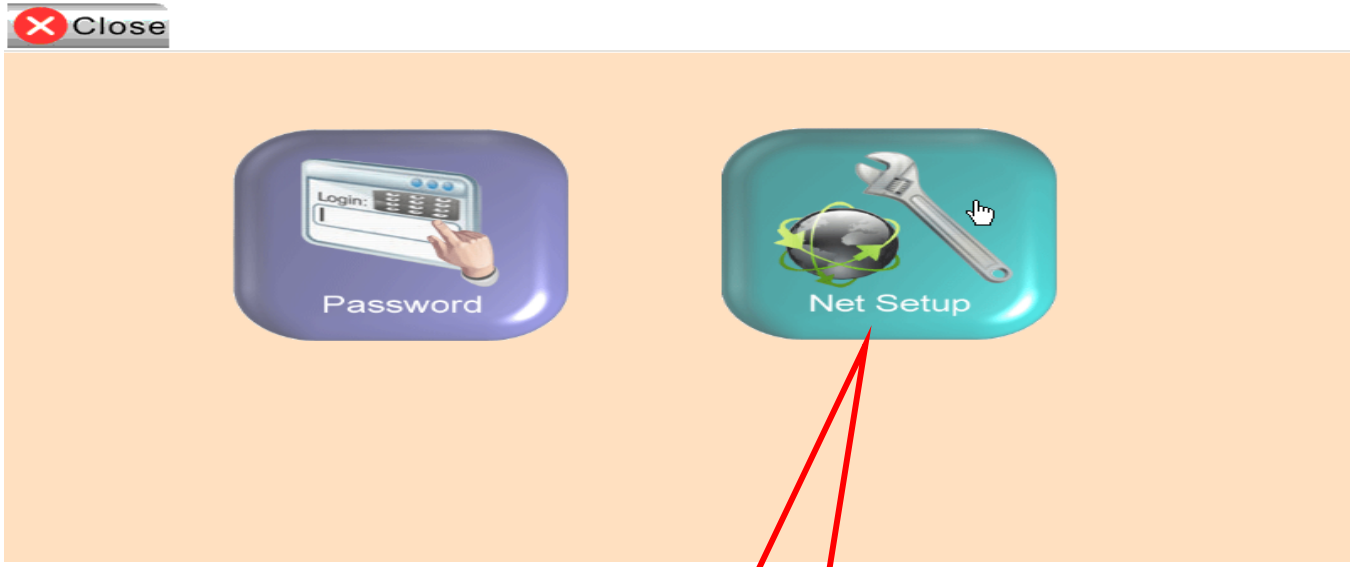
WCC-110 Setup

Touch here to enter into the password setup screen

WCC-110 Setup

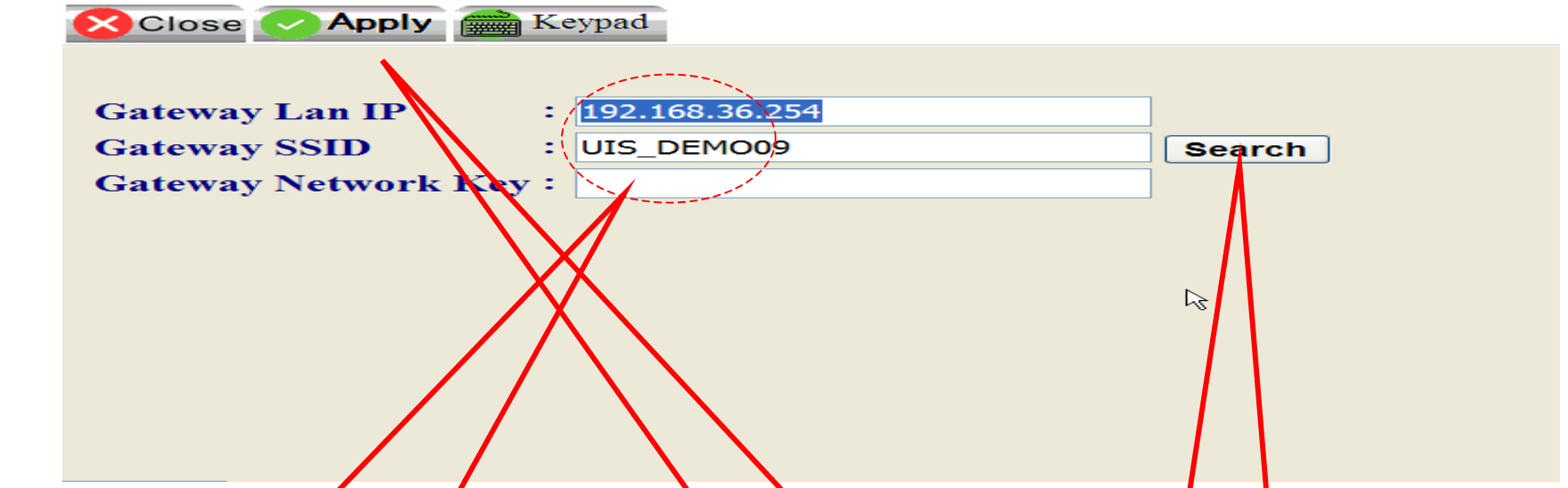


WCC-110 Setup



Touch here to enter into the network setup screen

WCC-110 Setup

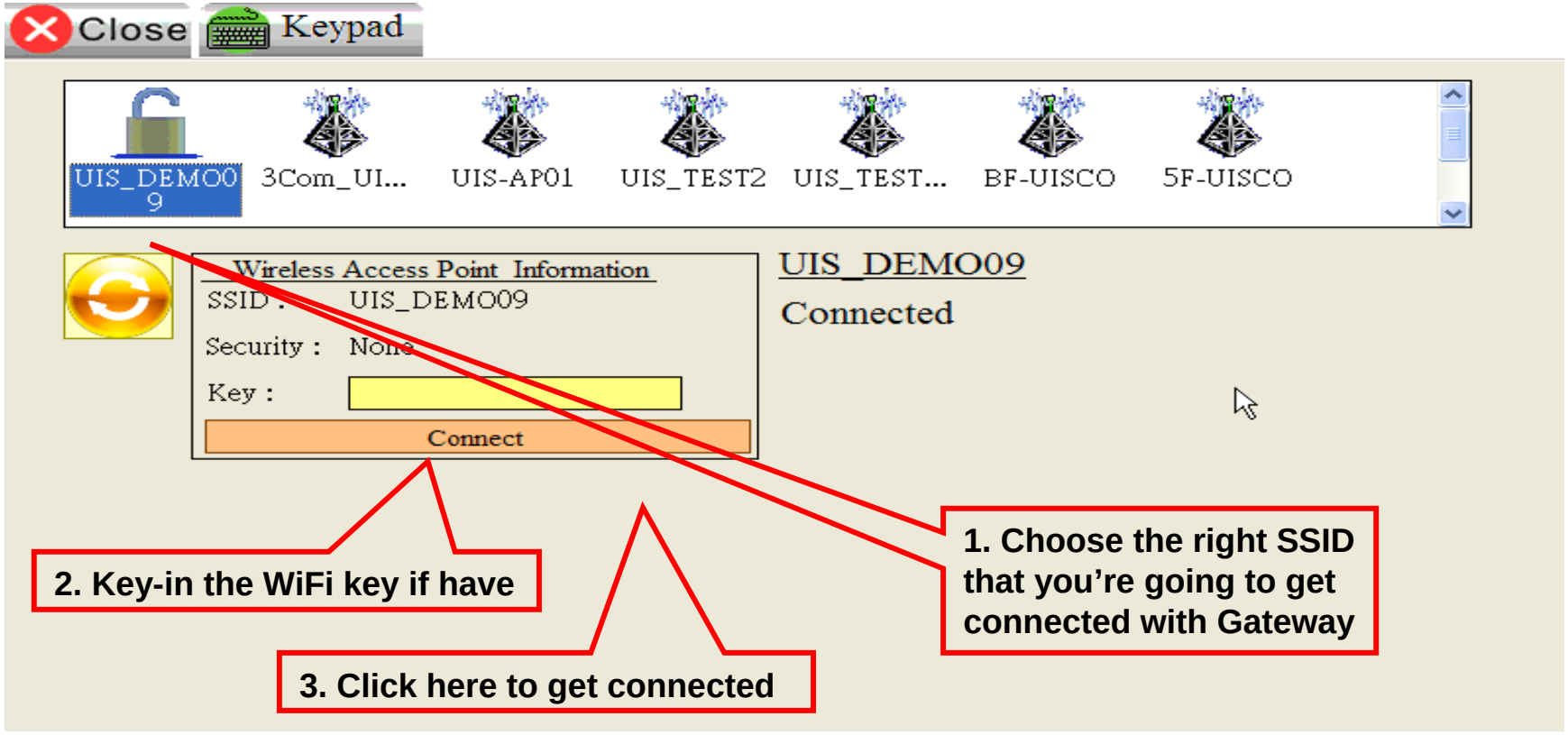


1. Key in Gateway's LAN IP, SSID(if know) & WiFi network key(if have)

3. Click here to activate all settings

2. Click here to searching for WiFi SSID(if don't know), move to the next page to continue

WCC-110 Setup

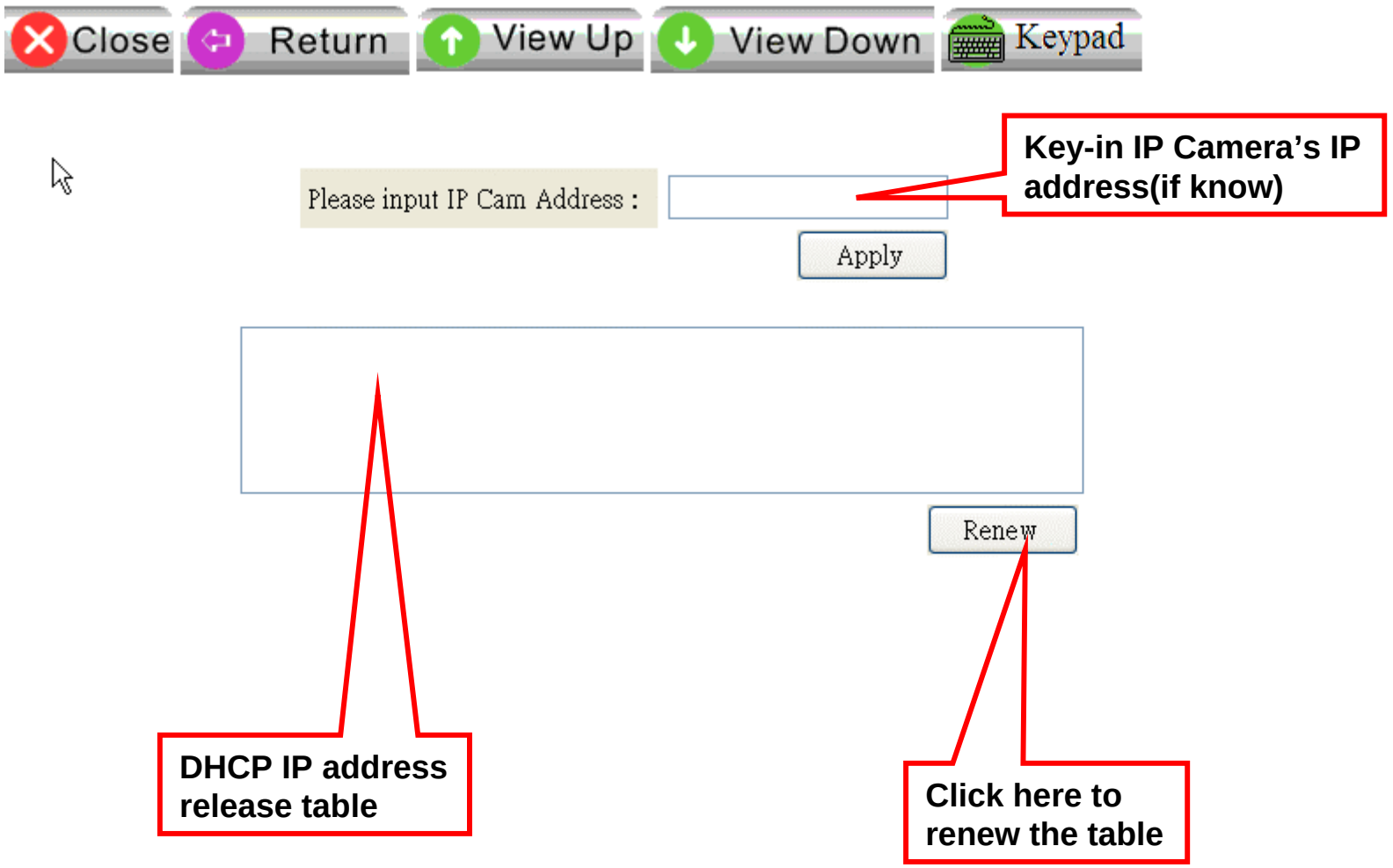


WCC-110 Setup

Touch here to enter into the setup main console

Touch here to enter into the IP Camera setup screen

WCC-110 Setup



Content

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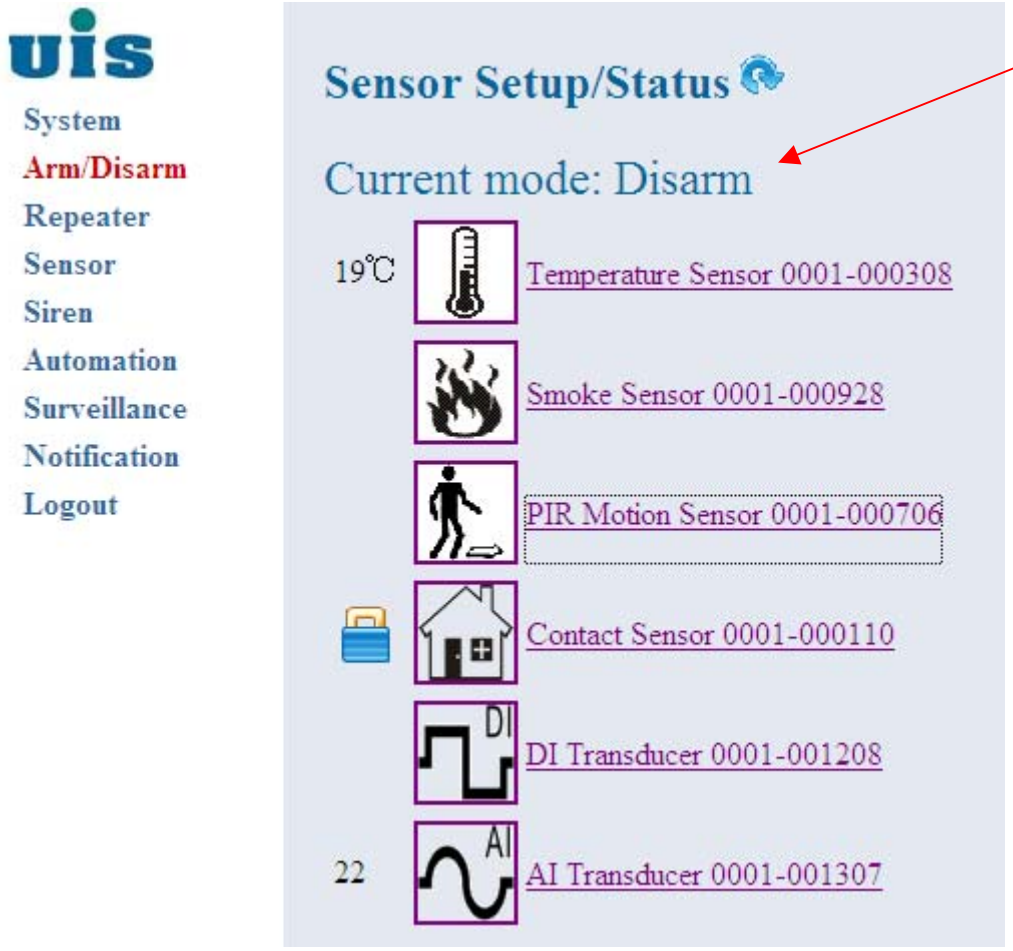
4. Application Guide

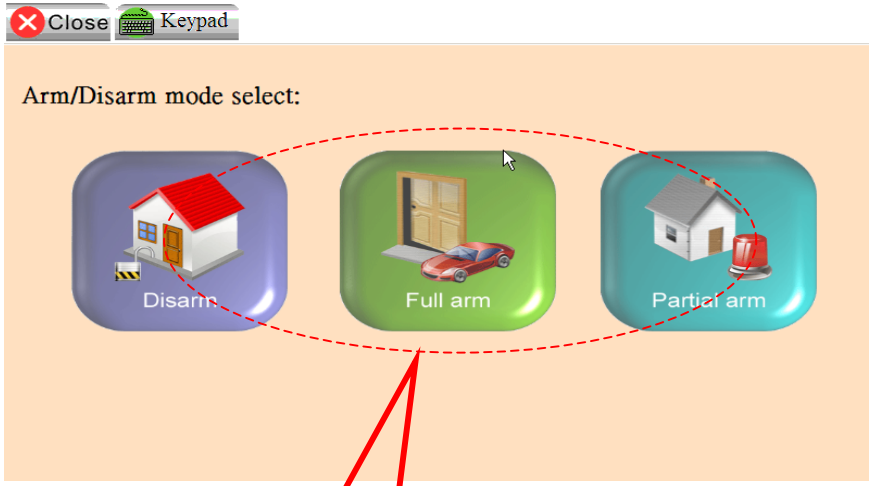
PC/HTTP Console

PC/HTTP Console



Show up the real-time mode once changed

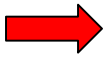
WCC-110 Console



Touch here to enter into the Arm/Disarm main console

Choose either mode you prefer

WCC-110 Console



Touch here to enter into the automation-related main console

WCC-110 Console

1. Touch here to enter into the Monitoring main console

2. Choose the IP Cam you want to watch

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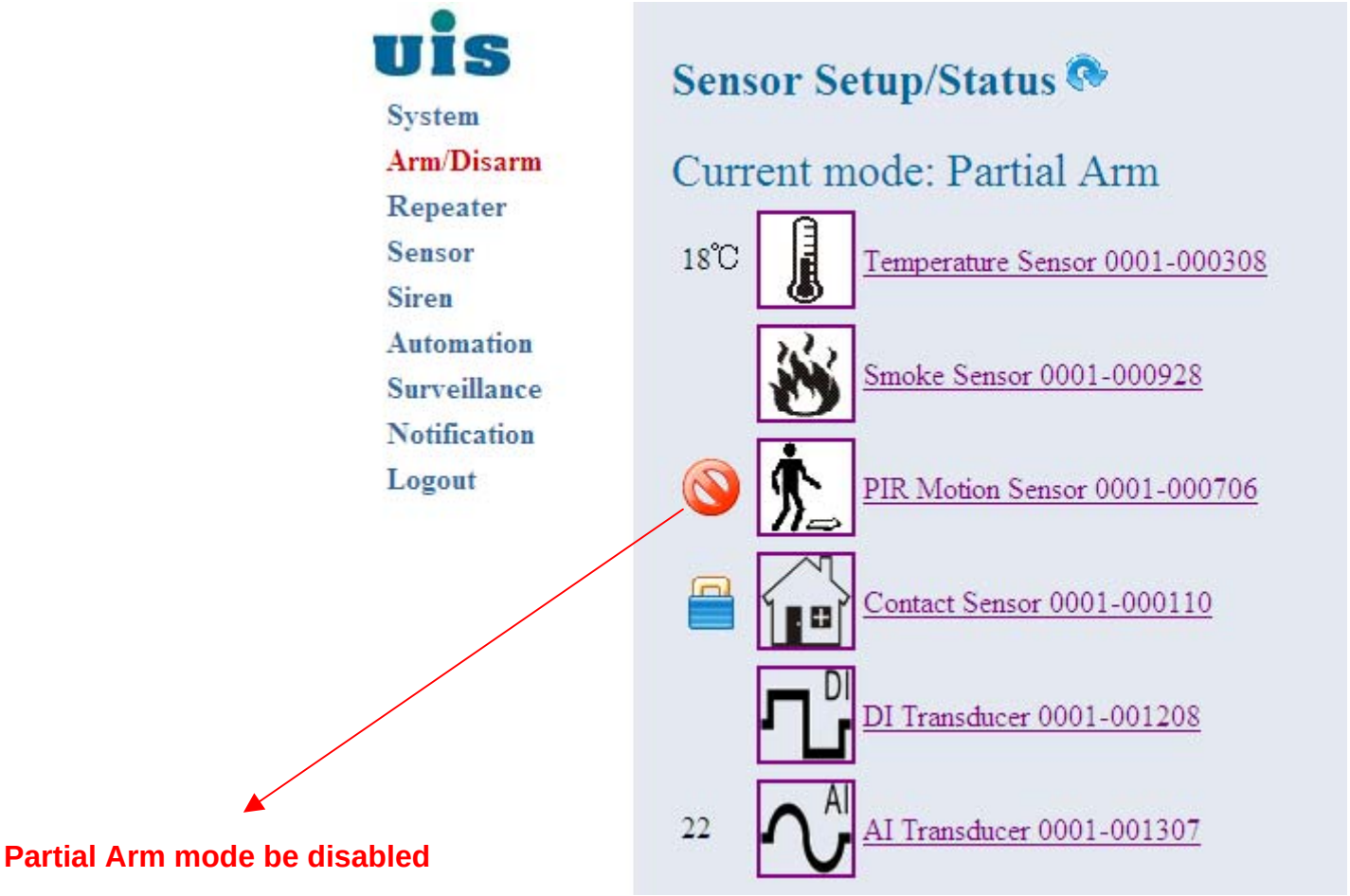
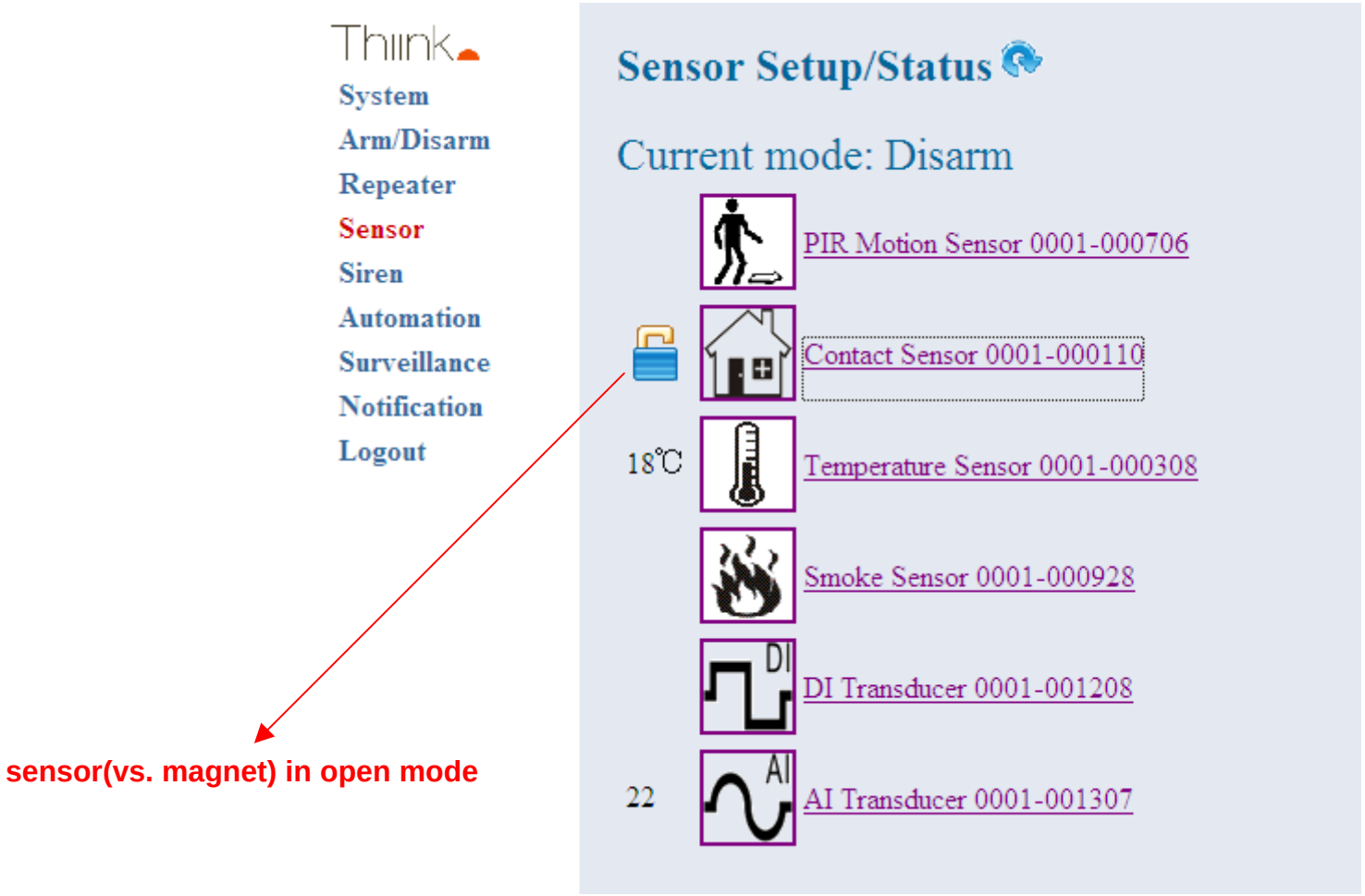
2. User Operation Guide
3. Troubleshooting Guide
4. Application Guide

Troubleshooting Tips



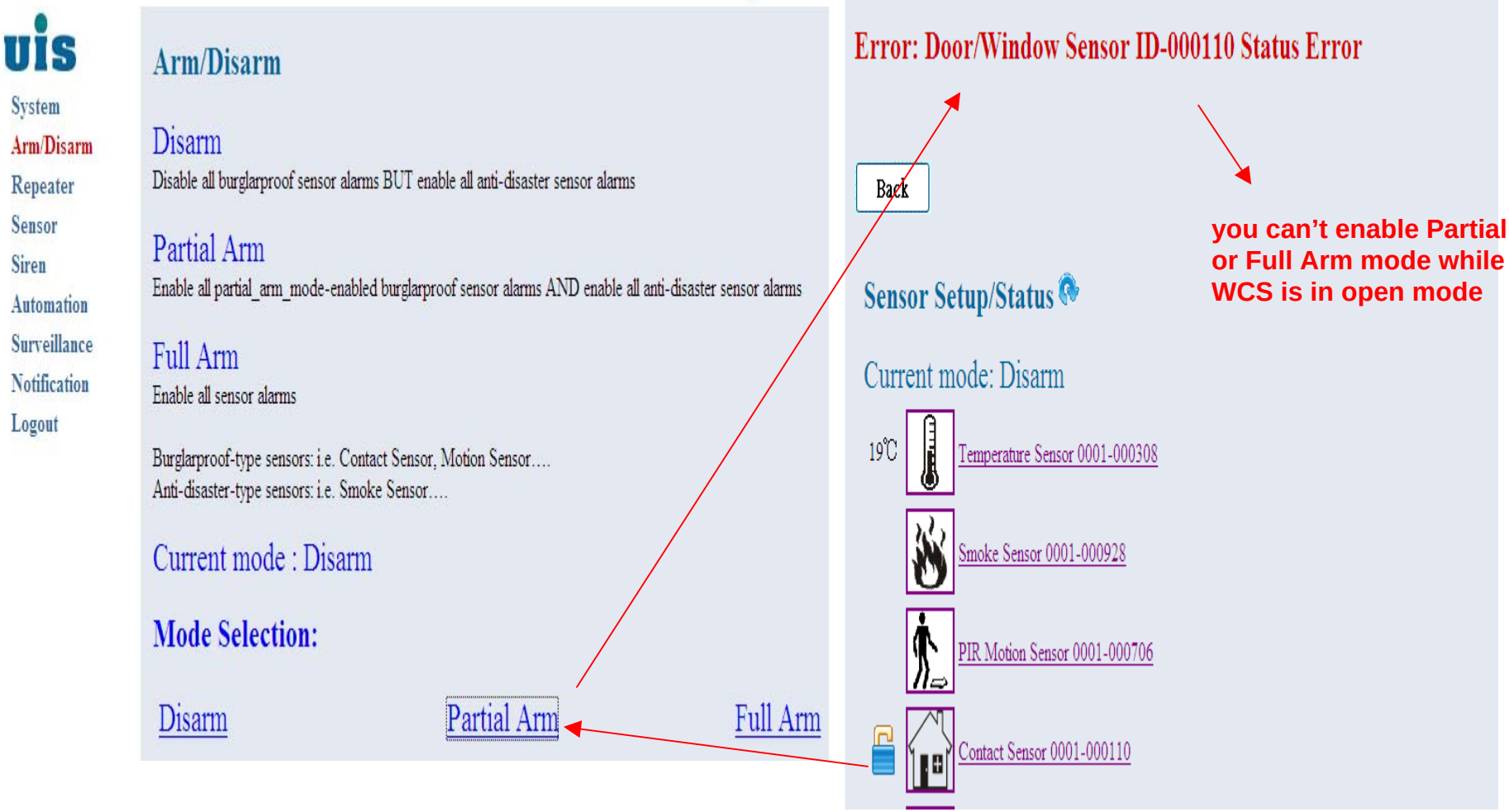
Partial Arm mode be disabled

Troubleshooting Tips



sensor(vs. magnet) in open mode

Troubleshooting Tips



Troubleshooting Tips

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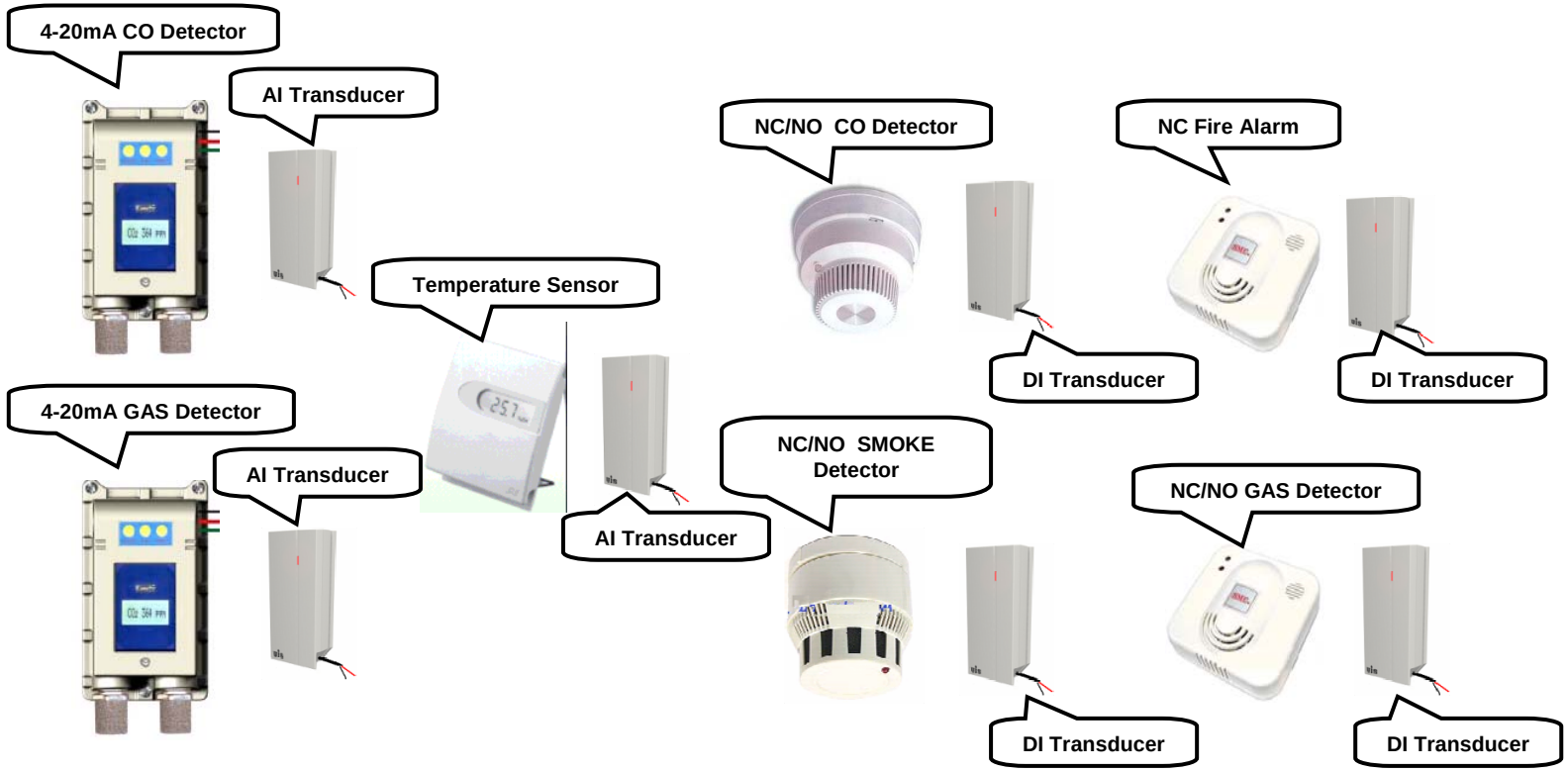
AI/DI Transducer Applications

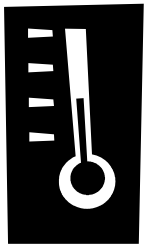


AI/DI Transducer Applications

NC/NO_relay-type
disaster sensor

DI Input

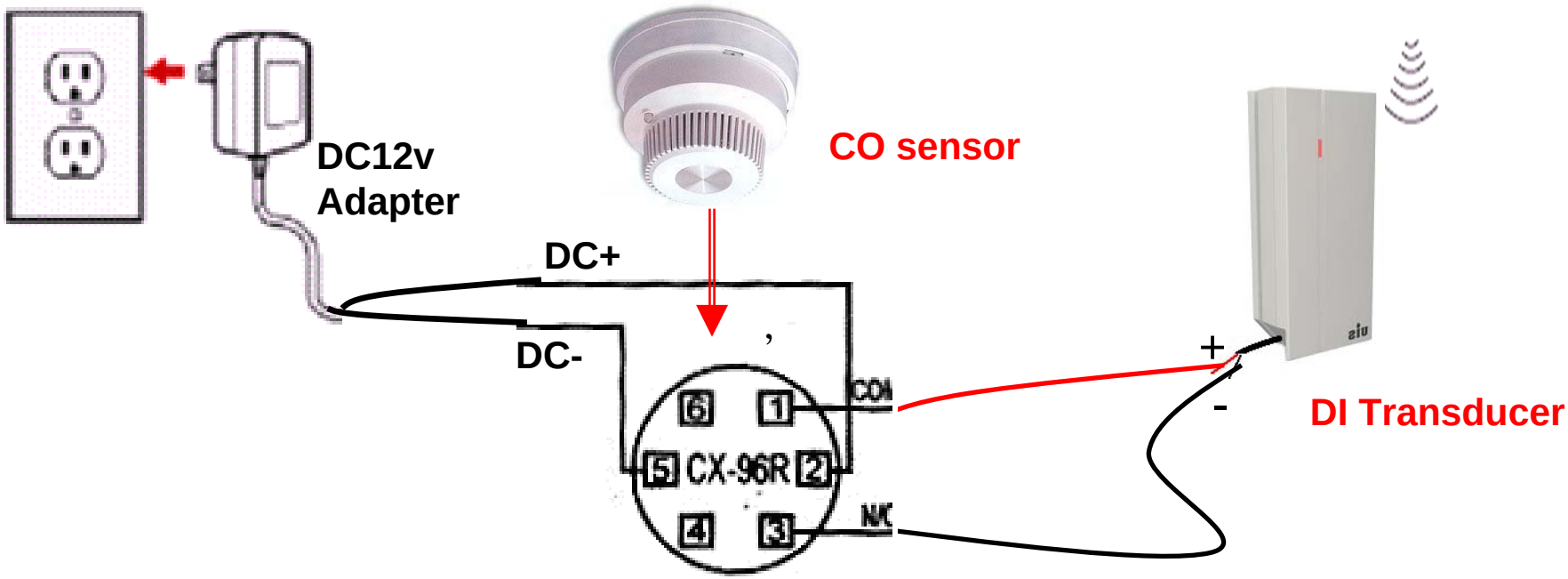
4-20mA AI Input



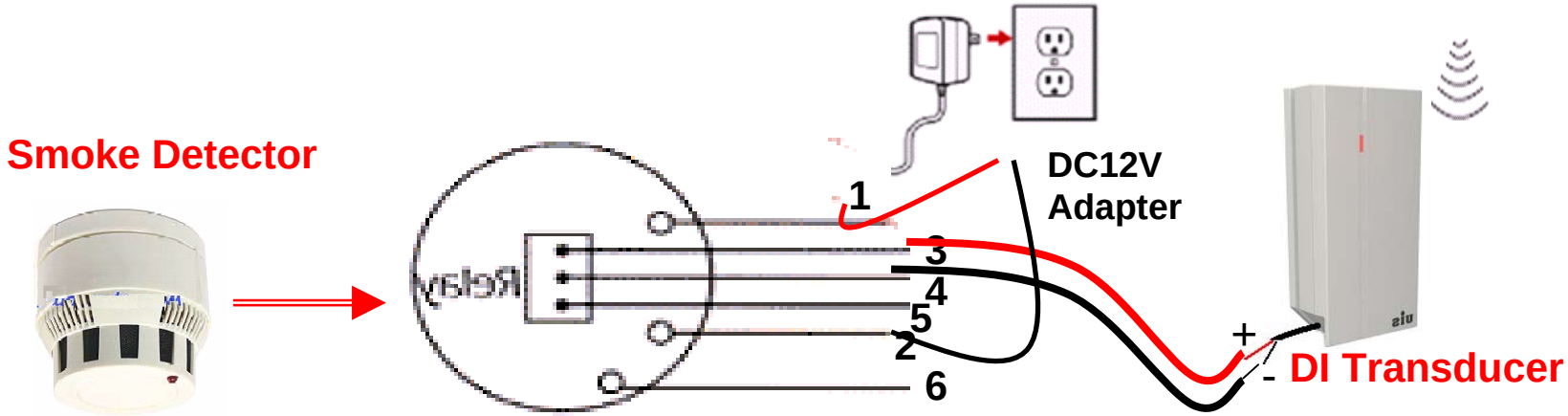
AI/DI Transducer

Linear-type (data retrievable)
disaster sensor

AI/DI Transducer Applications

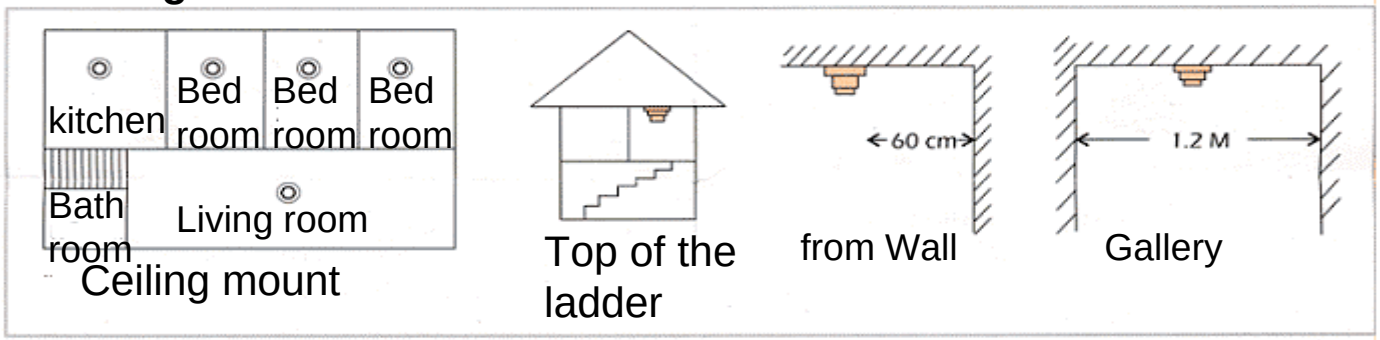


AI/DI Transducer Applications

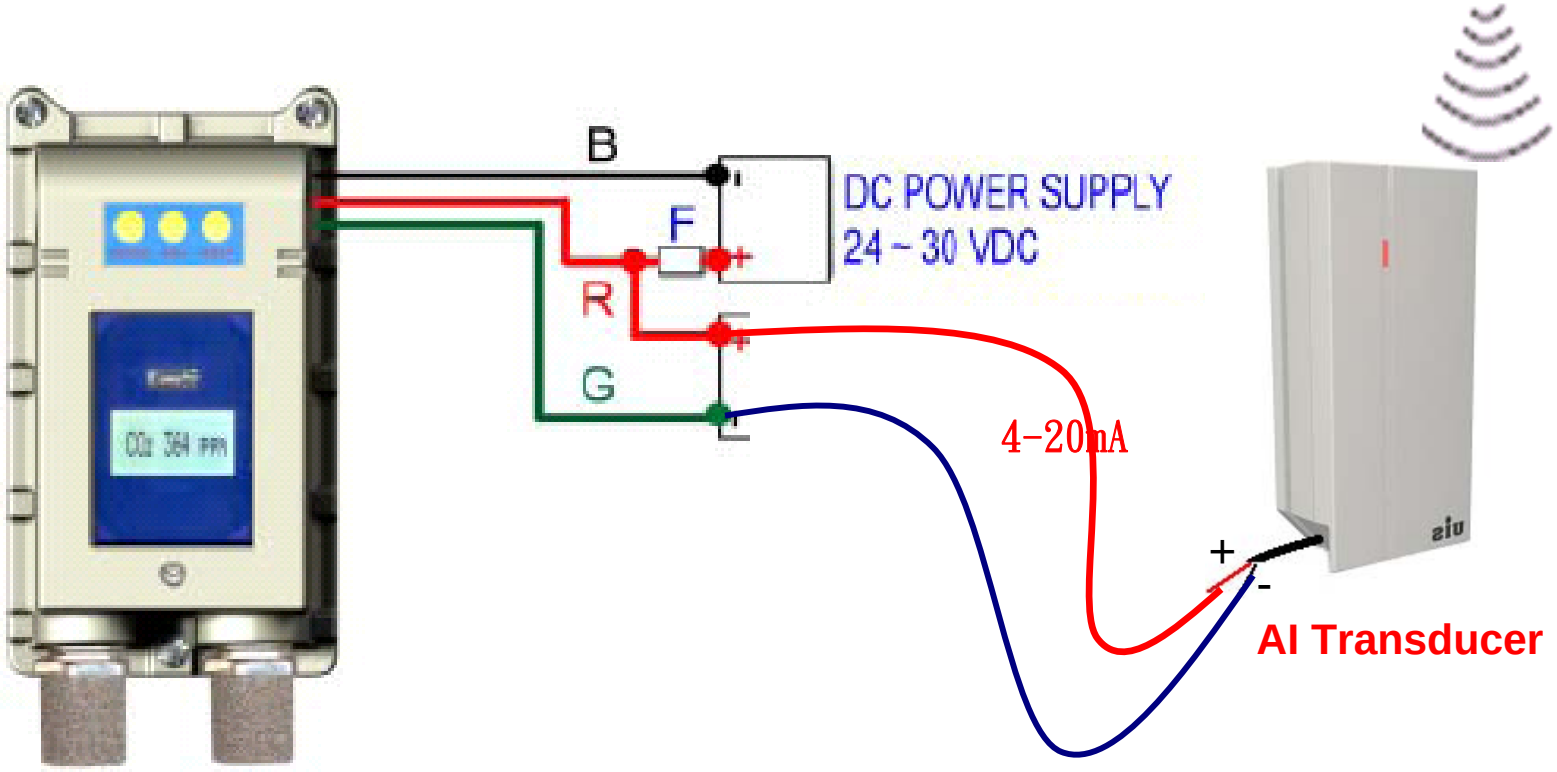


Colour Cores: 1. Red (DC-12V) 2. Black (Negative) 3. White (Normal Open)
4. Blue (Common) 5. Green (Normal Close)
6. Yellow (for Remote Indicator)

Installing location



AI/DI Transducer Applications



Symbol description：

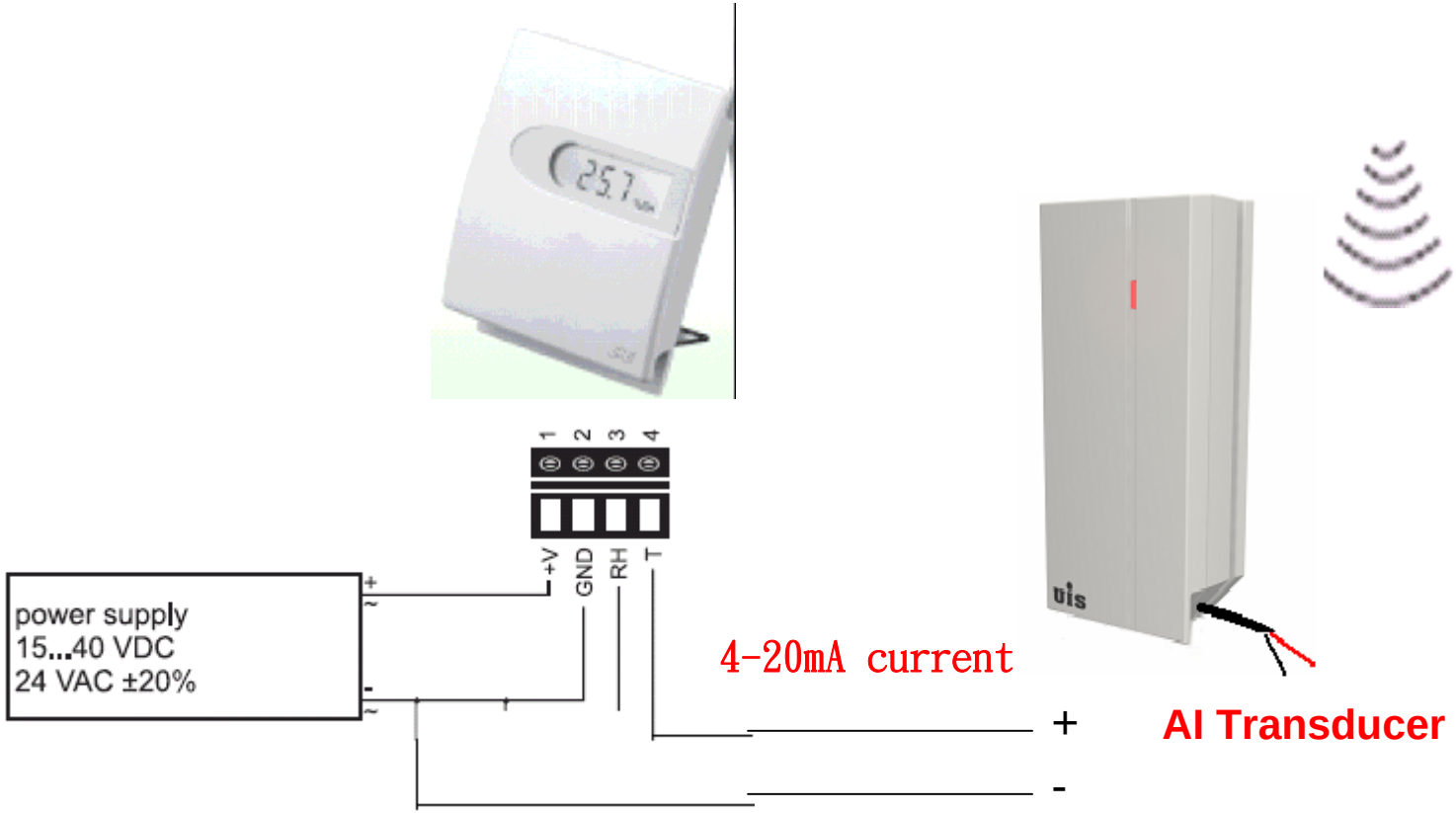
DC POWER SUPPLY：24VDC ~ 30VDC。

AI Transducer：To transfer 4 ~ **20** mA current to wireless digital datat。

B：Black wire R：Red wire G：Green wire

F：Fuse GTF200-FL **recommend** adopt 0.2A or 0.1A Fuse

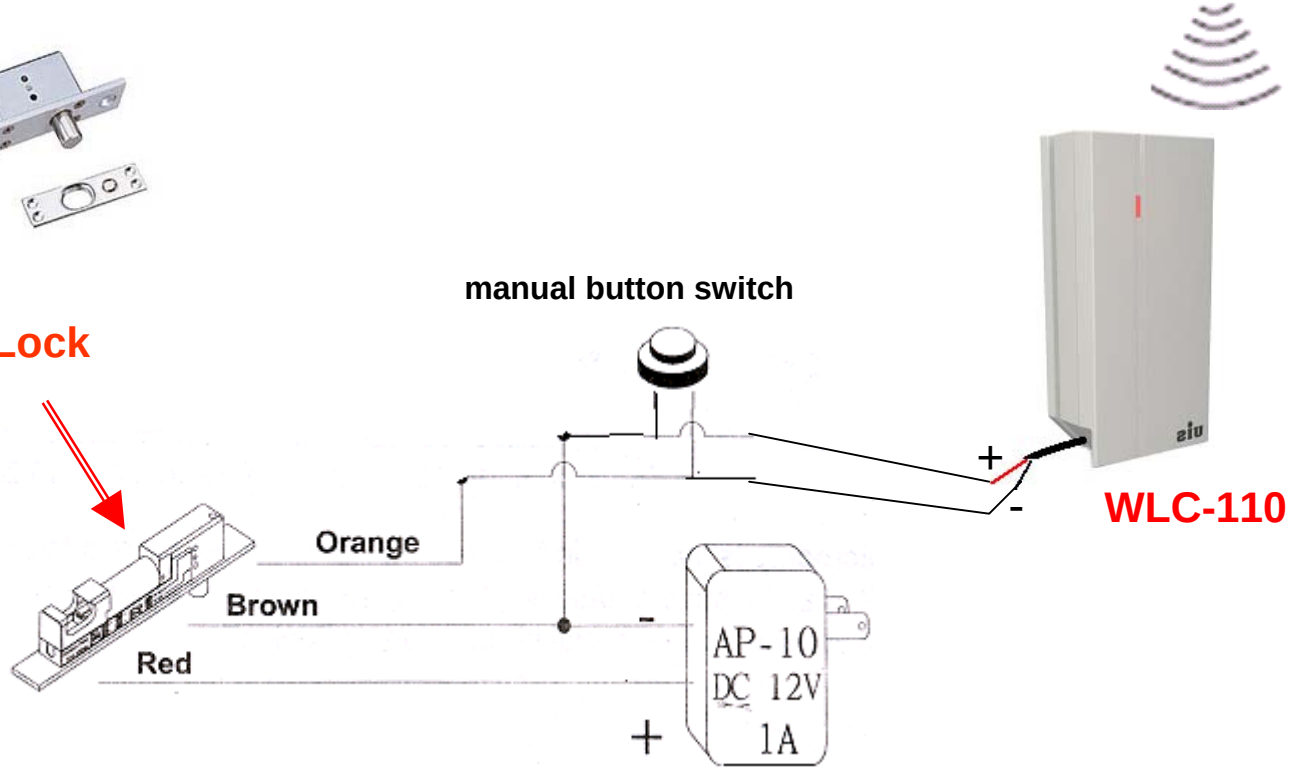
AI/DI Transducer Applications



To transform the Temperature Sensor signal into wireless control signal by using AI Transducer(4-20mA).

AI/DI Transducer Applications

Electric Lock



To transform a conventional Electric Lock signal into wireless control signal by Lock Controller

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTEIES ACCORDING
TO THE INSTRUCTIONS

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: – Reorient or relocate the receiving antenna. – Increase the separation between the equipment and receiver. – Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. – Consult the dealer or an experienced radio/TV technician for help.
CAUTION: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF exposure warning ·
This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

Canada Warning "Industry Canada regulatory information Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. "The user is cautioned that this device should be used only as specified within this manual to meet RF exposure requirements. Use of this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions."

The End