

HOME ALARM SYSTEM/GSM manual

USER MANUAL

BEFORE INSTALLING AND USING THIS SYSTEM,

YOU ARE STRONGLY RECOMMENDED TO READ THIS MANUAL CAREFULLY.

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1. Basic Configure



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2. Word Explain

Arm	Set to beArmed(Anti-Burglar), Armed or Make Alarm		
Disarm	Exit the status of Armed or Stop Alarming		
Normal Vocal Arm	In Armed status, when being triggered, the siren will be warning and dial the preset phone number		
Mute Arm	In Armed status, when being triggered, the siren will not be warning but dial the preset phone number		
Stay Arm	Setting Armed(Anti-Burglar), User could select the security zone to be working or notworking (After setting, do not affect the normal Arm)		
Remote Control	Remote Control by the phone to Arm/Disarm or monitor		
Phone Line	Phone line that could make phone call.		
Armed Delay	Time from setting Arm to be Armed		
Alarm Delay	Time from being triggered to Alarm and call.		
Warning time of Siren	Warning time of Siren		
User Password	Password for Disarm or remote control		

3. Attention before using

(1) Make sure all the Arming zones are on duty.

(2) Avoid heavy impact and unnecessary disassembly which might incur accident or man-made damage.

(3) When installing, avoid touching the electronics components which on the PCB with hand or metal parts.

(4) When installing, make sure the AC power supply is stable (if the AC power supply is cut, the system will shift to backup battery automatically).

(5) Suggested: main unit should connect with phone line. When connect with EXT phone, please set the

phone number as requirement. (For Detail, please read below)

(6) When fault, please contact with the dealer or our factory with Invoice & Warrant Card.

4. Feature & Function

(1) LCD DISPLAY

(2) 80 wireless zones, rolling to learn code. 4 wired zones

Wireless transmitting range is more than 200meters.

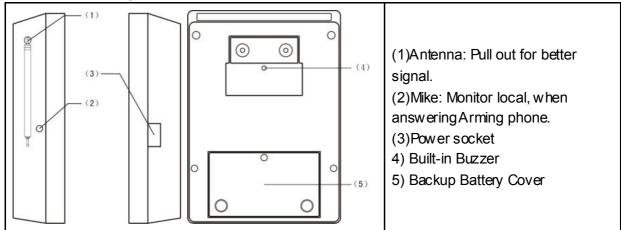
(3) USA CPU processing circuits, more stable.

- (4) Billion Code
- (5) Available to connect with CMS
- (6) Available to set each zone to be ON/OFF
- (7) Arm/disarm by remote, 2 groups Auto Arm/Disarm, remote to Arm/Disarm, Arm/Disarm by keypad
- (8) 72pcs alarm log, showing event detail & date (year, month, day, hour, minute).
- (9) Available to monitor Local, when alarming.
- (10) Self-check Function: easy to test & check, for adding new sensor & normal check
- (11) Emergency Function.
- (12) Built-in 85dB buzzer.
- (13) Easy to select wired/wireless PIR sensor, Door Sensor, Gas/Smoke Detector and so on.
- (14) 12V output port for wired accessories.

5. Main part & instruction 1) Main unit (front)

	1. Pow er	Always on: On duty
	indicator	Off: Power off
(4)	2. Arm/Disarm	Always on: in Armed status
	Indicator	Off: in Disarmed status
	3. Low-battery	Always on: Power voltage is lower than 8±0.2V
	indicator	Off: Power voltage is normal
	4.LCD display	Display operating menu and event log
	5.Keypad	For operating

2) Main unit left, right & back side

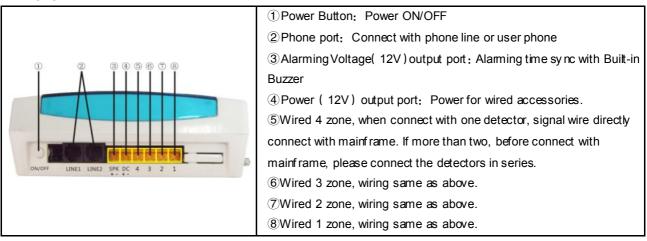


3) Keypad Button

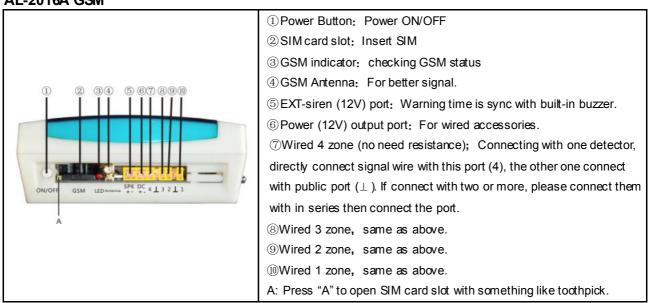
	Button		Function		
X	" X "key	Press" X "key	Cancel and go back.	Cancel	
1 2 3 🛧	"✔"key	Press" √ "key	Confirm and go to next.	Confirm	
4 5 6 0 7 8 9 ↓	"↑"key	Press"↑"key	Move upward, left or backspace.	Move & Backspace	
L	"↓"key	Press"↓"key	Move downward or right.	Move	
	Number	er Key: "0"— "9"key。			
Set to be armed by keypad		/hen mainframe displayed "Welcome", Press "↑" for 1.5sec., sound "Bi" nce, enter vocal arm status.			

4) Main unit (top)

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5) Built-in DIP Switch: AL-2016A

	NO.	Fund	ction	Setting		
	1	ON	ON			
	I	1	OFF	Remotely Control by phone (Default is "ON")		
		ON	ON	Switch for restoring password (Def ault is "2"), when forgot password, please open the cover of mainframe, pull the		
3 DFP 4	2	2	2	2	OFF	switch from "2" to "ON", then power off, power on after 2sec., pull it to be "2" again. Password restored to be "000000"
	3	ON	ON	Arm/Disarm dial CMS or not (Default is "3"). If pull to "ON" and input CMS No. & User ID, it will dial CMS, when		
	3	3	OFF	Arm/Disarm. Pull to "3", it will not dial CMS when Arm/Disarm.		
	4	Undefi	ned			

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	NO.	Function		Setting
B		ON	ON	Switch for restoring password(Default is "1"), when forgot password, please open the cover of mainframe,
	1	1	OFF	pull the switch from "1" to "ON", then power off, power on after 2sec., pull it to be "1" again. Password restored to be "000000"
	2	ON	ON	Sending SMS & dial CMS or not, when Arm/Disarm
		2	OFF	(Default is "2"). If pull to "ON" and input CMS No., it will dial CMS. If no input CMS No., it will send SMS to user.

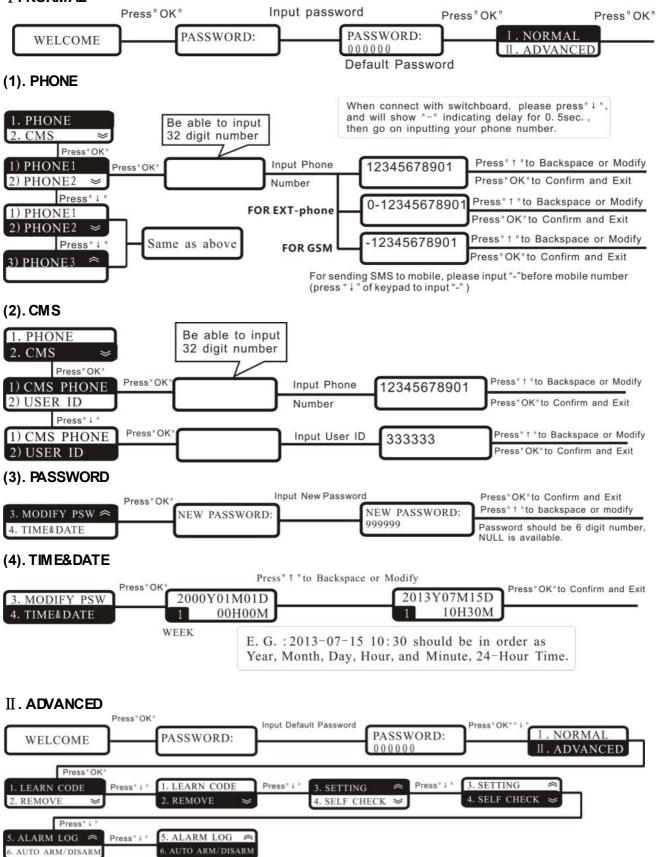
6) Remote Control

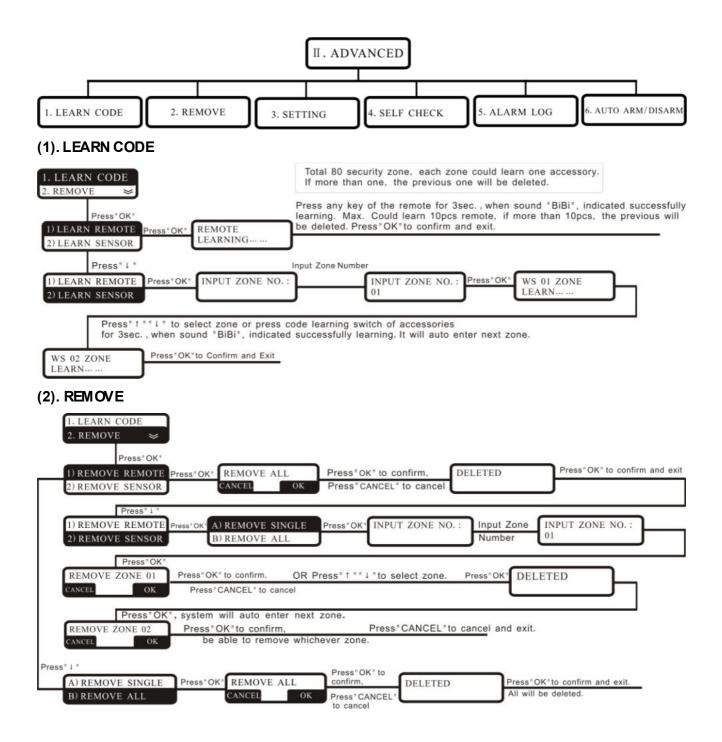
	Button	Enable/Disable		Function
	ARM KEY	Pressekey	Sound "Bi", enter normal ARM status.	To be
	ARM KEY	Press key again	Sound "Bi Bi", enter mute ARM status.	Armed
		Press key	Disarm immediately & exit alarming status	To be Disarmed
OR	EMERGENCY KEY	Presskey	Warn & Dial at once	To be Emergency
		Presskey	Sound "Bi", enter perimeter Armed	To be
PERIMETER ARM KEY	Press & key at the same time	Enter v ocal armed status without any delay.	Perimeter Armed	

6. System Setting and Operation

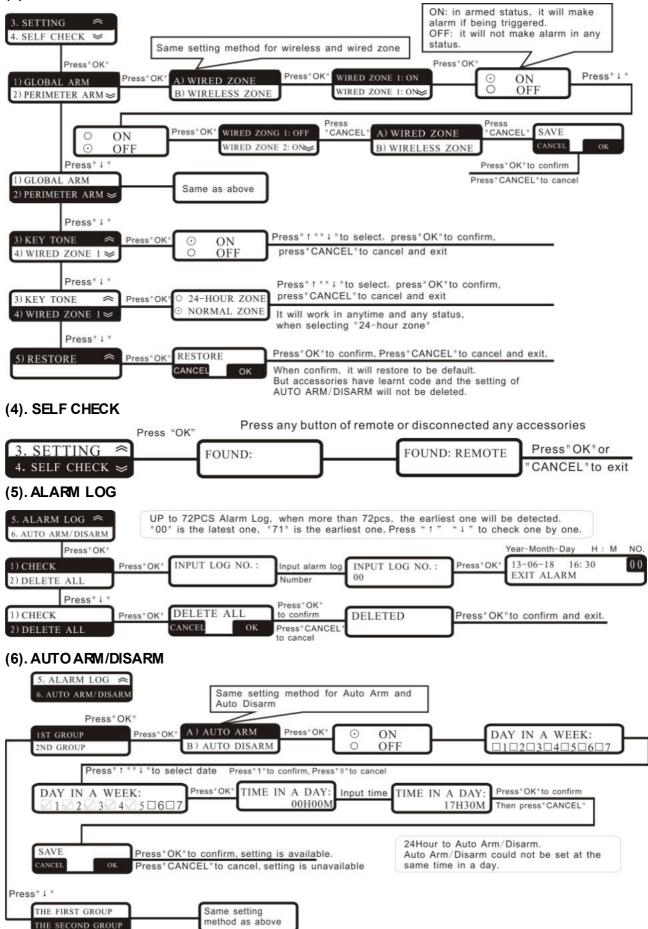
Pow er on, LCD will be on, then operating as below:

I. NORMAL





(3). SETTING



(7) Default setting

1.De lay to be Armed:	0sec.	5.Built-in Buzzer & EXT Siren:	SYNC.
2.Delay to be Disarmed:	Osec.	6.The 1 st zone:	Normal Zone
3.When Armed, default is:	Global Armed	7.Alarm Phone default is:	Null
4.default password:	000000		

7. Receive the Alarming call

In armed status, if any accessories are being triggered, the system will make alarm after delay time.

(1) Warning Alarm

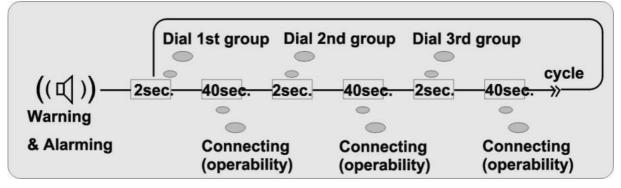
If no connecting with phone line or do not input any number, when being triggered, the siren will be

warning in any status.

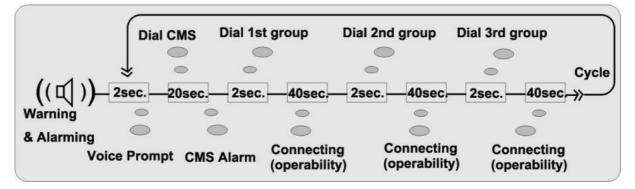
Except the above two vocal alarming situation, If under mute alarm status, the siren will not wam.

(2) Phone Alarm

When alarming, the system will dial in order. If not being stopped, it will dial three times in cycle. (As below)



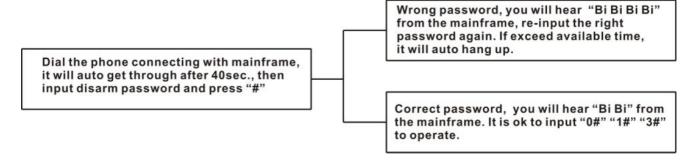
If connecting with CMS, it will dial CMS first and send alarming information. If sent successfully, it will not dial CMS again. If not, it will dial CMS three times. Then dial other three groups in cycle. (As below)



When answer the phone, firstly it is the operating voice prompt. It is available to operate according to the voice prompt. If the user does some operating, it will not dial this number in another cycle.

Phone Button	Function
Press"3#'key	When monitoring the alarming place, it is ok to press "3#" for 20sec more.
Press"5#'key	Switch into Vocal Alarming and hang up, then dial next number
Press"1#'key	Exit current alarming and hang up, But mainframe is still in Armed status, if being triggered, it will make alarm again.
Press"0#'key	Disarm

8. Remote Control Function



Phone Button	Function	Phone buzzer
Press"0#"key	Disarm	Sound "Bi Bi" once
Press"1#"key	ARM	Sound "Bi" once
Press"3#"key	Monitor Local	Sound "Bi" once

9. System Installing

(1) Before using, all w ireless should learn code. Security zone need to be used, should be "ON".

(2) For safe and better wireless signal receiving, the mainframe should install at the center. Mainframe &

wireless accessories should avoid the large metal and strong magnetic region.

(3) When using rechargeable battery, it should be charged for more than 72 hours. Please select battery

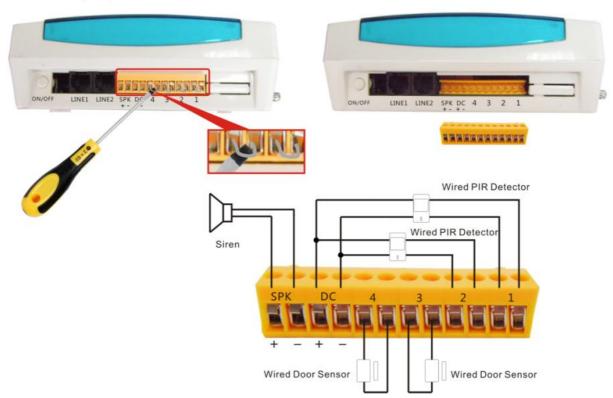
from standard manufacturer for normally working.

(4) Wiring diagram for wired accessories as below:

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Using screw driver to pick up the wired port, as below

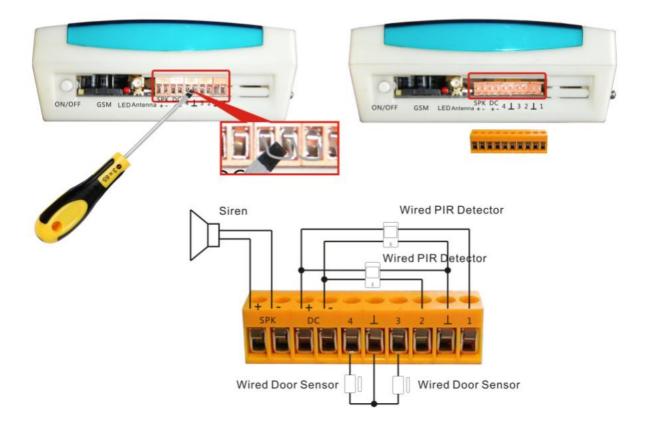
Successfully picking up, as below



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Using screw driver to pick up the wired port, as below

Successfully picking up, as below



10. Technology Parameter:

- (1) Power Voltage: AC: 110V ~ 245V
- (2) Standby Current of Mainframe: ≤35mA
- (3) Operating Current: ≤120mA
- (4) Alarming Current: ≤300mA (not connecting with EXT siren)
- (5) Receiving Frequency: 433.92±0.5MHz
- (6) Preset Phone Number: 3pcs phone number, 1pcs CMS NO and 1pcs User ID
- (7) Built-in Siren: >85dB
- (8) Standby Time: ≥8 hours
- (9) Size: 20x14.5x6.6cm
- (10) Wireless receiving range: ≥200M
- (11) Triggered wired accessories: When disconnect, it will make alarm.
- (12) Triggered duration: 0.5sec.
- (13) Security Zone: Wireless 80, Wired 4

11. Normal Fault & Solution

Fault	The possible reasons	Solution
Power LED is OFF, LCD screen does notwork.	Backup batter run out or power is cut	Charge the battery or recover power supply.
Wireless signal unavailable	same frequency interference	Contact de aler for help.
Could not dial, when Alarming	Input wrong phone number or phone line is disconnected.	Input the number, connect the phone line.
Transmitting short	Have not pulled out the antenna or close to the big metal object	Pull out the antenna or avoid closing to the big metal object.
shorten transmitting of the detector	Battery is low of the detector	Replace the battery.

11. Accessories Instruction

D-106 / D-102A Door Sensor Instruction

Overview:

D-106 / D-102A Door Sensor using imported CPU, more stable.

D-106 / D-102A Door Sensor using importe D-106 Instruction	D-102A Instruction
Technology Parameter:	Technology Parameter:
Battery: 12V/23A	Battery: 12V/185MAH;
Static Current: 0uA;	Static Current: 0uA;
Transmitting Current: ≤15mA;	Transmitting Current: ≤12mA;
Type: ASK;	Type: ASK;
Transmitting Frequency:433.92MHz;	Transmitting Frequency:433.92MHz;
Transmitting Range: ≥200M (clearing)	Transmitting Range: ≥220M (clearing)
Usage: (PIC1A)	Usage (PIC1B)
Learn code: Press SW1 for 3sec.	Learn code: Press K2for 3sec.
LED1: Signal sending indicator	LED1: Wireless signal sending indicator
LED1: Signal sending indicator LED2: Low power indicator (When undervoltage,	LED1: Wheless signal sending indicator LED2: Low power indicator (When under
it will be always on)	v oltage, it will be alway s on)
Working Method: (PIC2A)	Working Method: (PIC2B)
Magnetic Stripe abuts against Door Sensor	Magnetic Stripe abuts against Door Sensor
closely, and then takes magnetic stripe away more	closely, and then takes magnetic stripe away more
than 20mm, LED1 will flash once, sending warning	than 20mm, LED1 will flash once, sending warning
signal.	signal.
ceiling /	
wall Sensor	switch of learning code
PIC3A Installing Diagram PIC1A	PIC2A
D-10)6
ceiling	
wall Boor Sensor ground	Switch for learning code M2 K2 K2 K2 K2 K2 K2 K2 K2 K2 K
PIC3B InsatIling Diagram PIC1B	PIC2B
D-1	02A

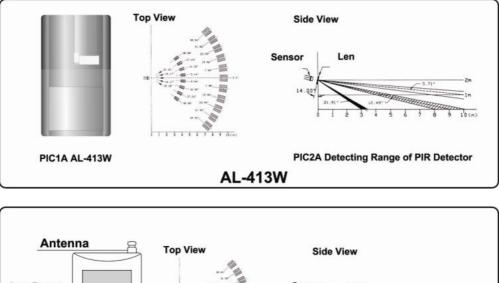
AL-413W / PIR-102A Instruction

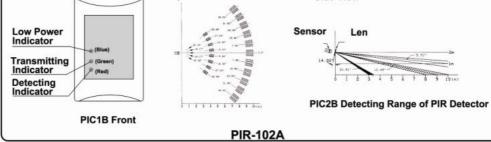
1. Overview

AL-413W (PIC1A) / PIR-102A (PIC1B) wall mounting wireless PIR Detector make up of wireless sending circuit & infrared detecting device.

Features:

- A. Anti-false alarm & outstanding detecting function.
- B. Pure wireless design, wireless transmitting, easy installing.
- C. Pow er saving design, long working time.





2. Parameter

AL-413W Instruction	PIR-102A Instruction
Power: 1.5V, 7 Alkaline Battery 4pcs	Power: 9V High-powered alkaline battery 1pcs
Working Current: static<25uA, being triggered<25mA	Working Current: static<25uA, being triggered<25mA
(6VDC)	(9VDC)
EXT Battery: static<40uA, being triggered<25mA	EXT Battery: static<4u A, being
(12VDC)	triggered<25mA(12VDC)
Transmitting Frequency: 433.92MHz	Transmitting Frequency: 433.92MHz
Transmitting Distance: ≥200m (openview place)	Transmitting Distance: ≥200m (openview place) PIR
PIR Detector Diagram (View PIC2A)	Detector Diagram (View PIC2B)
Sensor: Germany Hayman Sensor	Sensor: Germany Hayman Sensor
Detecting angle: horizontal 100° Vertical 70°	Detecting angle: horizontal 100° Vertical 70°
Detecting range: 6-12m	Detecting range: 6-12m
Size: 10.7*5.8*4.7cm	Size: 6.7*4.5*5.1cm
Working Temp: -10°C to +40°C	Working Temp: -10°C to +40°C
Storage Temp: -25 $^\circ\!\!{\rm C}$ to +55 $^\circ\!\!{\rm C}$	Storage Temp: -25 $^\circ\!\mathrm{C}$ to +55 $^\circ\!\mathrm{C}$
Anti-radiation > 1V/M	Anti-radiation > 1V/M
Anti-visible light > 6500LUX	Anti-visible light > 6500LUX

3.Installation & Usage of Detector

3.1 Installing guide to avoid false alarm

- A. Avoid sunshine or strong light
- **B**. Using high-powered alkaline battery
- C. Avoid the floating subject, e.g. clothes or curtain, strong wind may cause false alarming.
- D. Avoid facing heating unit, such as air conditioner, refrigerator, fan and so on.

3.2 Installing

Use screw to fix the bracket on the wall, about 2.1m to 2.8m from the ground. (PIC3A or PIC3B)

3.3 Working Mode

Detecting Indicator: Detected someone within detecting range, red LED will be flashing.

Signal transmitting indicator: When transmitting, Green LED will be on for.

Low Voltage: When the voltage of battery is low, the Blue LED will be always on (indicating: time to replace battery).

Check when power on: Every time power on, detector will enter 1 min self-check mode, and the Red LED will be flashing. If without being triggered, it will enter testing mode.

Code learning mode: Under testing or working mode, press code learning switch, the Green LED will be on for 3sec., then enter code learning mode, enter testing mode after 3sec. (PIC5A or PIC4B)

Selecting working time for detector: Pull to 180S, detector will send signal every 180sec. That is saving power. Pull to 10s, detector will send signal every 10sec. That is for installing test.

3.4 Walk to test

Walk into detect range, it should flash once, start transmitting wireless alarm signal.

3.5 Code learning

Firstly, enter code learning status, long press code learning switch (PIC5A or PIC4B), Green indicator will be always on. When mainframe received that signal, it will sound to indicating code learning finish. If not, please repeat the above operating.

3.6 EXT Power for AL-413W

It is able to connect with 12V DC Pow er. Please check PIC4A for power socket (Default is unavailable, unless required by user)

4. NOTE

- A. Avoid to drop or impacts, or will cause damage.
- **B**. Avoid touching sensor to keep mirror surface clean.
- C. After testing, please set to normally work mode.
- D. Do regularly checking for better status.

