Security Alarm System

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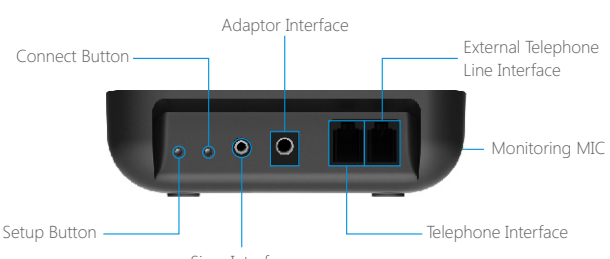
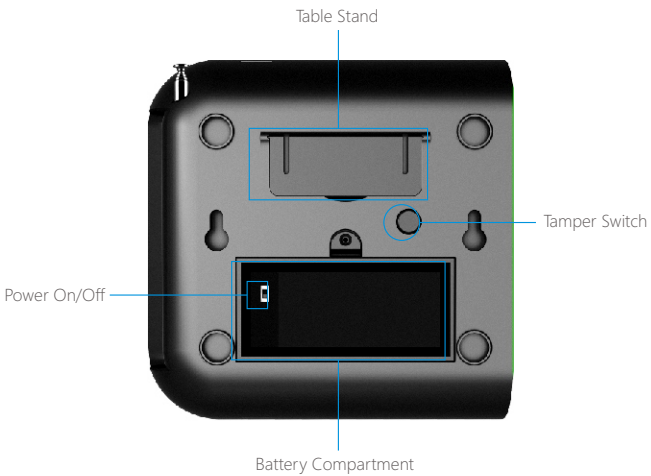
Features

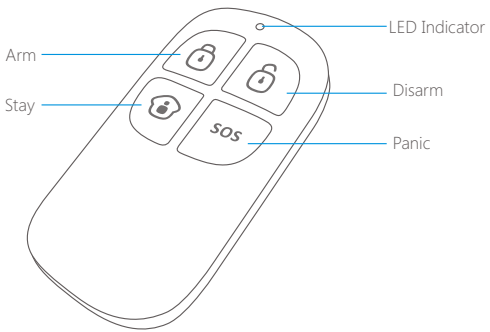
- 100% wireless configuration, installation by D.I.Y.
- Convenient operation by remote control
- Support 60 wireless accessories
- Built-in 1,000,000 RF codes combination maintains high reliability
- Simple accessory expansion by automatic recoding
- Mute remote control at late night
- Home mode by remote control
- Built-in 110dB siren, deterring intruder on site
- Store 6 alarm phone numbers and 2 ADEMCO CID CMS numbers
- Simple operation by voice prompt menu
- Remote arm, disarm and monitor by phone operation
- Built-in 500mAh lithium battery, enables 12-hour standby

Control Panel Features

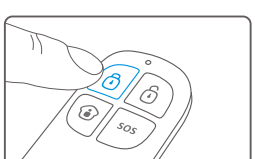




Wireless Remote Control



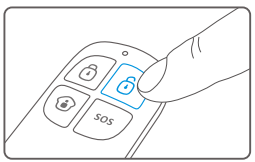
Arm



Press {Arm } to arm the alarm panel and the LED indicator lights on (siren hoots once), the system enters Arm state.

If there comes an intruder, the siren will hoot to deter the intruder. (The siren turns off after ringing for 5 minutes as default setting.) At the same time, the system dials the pre-stored phone numbers automatically.

Disarm

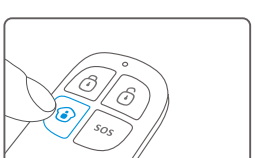


Press {Disarm } to disarm the alarm panel and the LED indicator blacks out (siren hoots twice), the system is disarmed.

When intruders are detected, siren will keep hooting. If you press {Disarm } , siren will stop hooting but the corresponding zone LED indicator on the panel still flashes for checking.

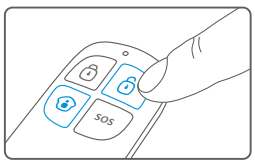
Press {Disarm }again, all zone indicators black out.

Home Mode



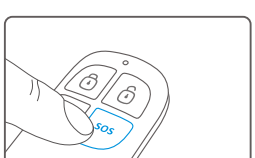
Press {Stay }, the arm state LED is on. The BCDE and 24-H zones are armed except zone A. Accessories in zone A will not be activated. You can move freely at home.

Mute Mode



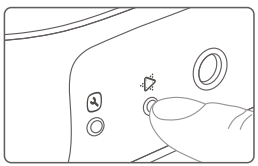
Press {Stay } button on the remote control, then press {Arm } or {Disarm } button, the siren keeps silent to finish the operation. The system is armed or disarmed in mute without disturbing other people.

Emergency Call



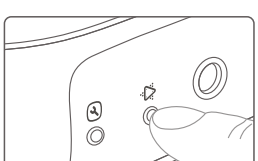
No matter what state the control panel is in, once SOS button on the remote control is pressed, the system immediately goes into emergent alarming state.

Connect Accessories



Press {Connect } button, the Connect LED indicator lights on, then trigger the wireless accessory once. It will be connected after one beep and the LED indicator blacks out. Once two beeps are heard, the accessory has been connected before.

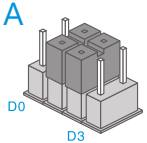
Clear Accessories



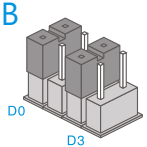
Press down the {Connect } button until two beeps are heard. All the connected accessories will be cleared.

Zone Setup of the Wireless Accessories

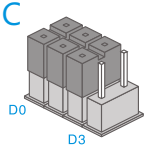
A



B

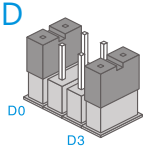


C

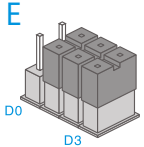


Home Mode Zone

D

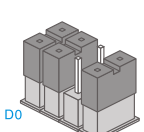


E



The door sensor is set at zone C and the PIR motion detector is at Home Mode Zone (Zone A). Zones can be coded according to your requirement.

After the zone is changed, the detector should be reconnected with the control panel.



24-H Zone

Note: It is recommended to set smoke detector, gas detector and outdoor beam sensor at 24-H zone.

Connect Wireless Siren

The newly-added wireless siren can be used after connecting to the control panel.

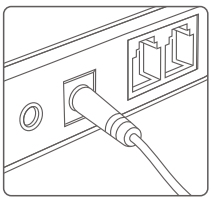
Operation:

Press the Connect Button of the wireless siren for 0.5 second, the Connect Button LED indicator lights on, and then press the SOS Button on the control panel, the siren will be connected after one beep is heard.

Testing: Press the Arm Button on the remote control, to make sure that the internal siren and wireless siren both beep once, the connection is successful. If not, the connection fails, please reconnect them.

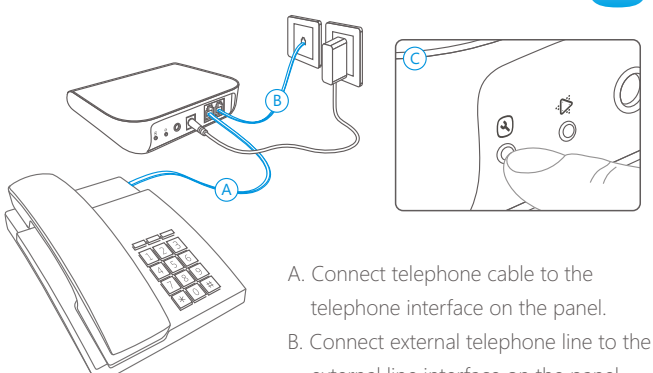
Once the intruder is detected, both internal siren and wireless siren will hoot to deter the illegal intruder. (The siren will be off in 5 minutes as the default setting). At the same time, the alarm system will send SMS and auto dial to users.

Starting the Control Panel



A. Plug the adaptor connector into the socket on the side of control panel.
B. Plug the adaptor to an AC power socket.

Enter Setup State



A. Connect telephone cable to the telephone interface on the panel.
B. Connect external telephone line to the external line interface on the panel.

C. Hold {Setup } button for 3 seconds till the voice prompt of "System enters setup state successfully" is heard. At the same time, the setup LED indicator lights on. The system enters setup state.

Program Ringing Time of the Siren

Example: Set ringing time to be 5 minutes

Enter setup state, input ＊1＊5＊
When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Note!
User may program the ringing time to be 1 ~ 9 minutes. Default setting: 5 minutes.

Program Exit Delay & Entry Delay

Example: Program exit delay & entry delay to be 60 seconds

Enter setup state, input ＊2＊60＊
When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Note!
User may program delay time to be 0~300 seconds.
Default setting: no delay. The value is 0.

Special tips!
Once the function is programmed, when you arm the system, the panel beeps once every two seconds to remind the user to leave. The reminding rhythm will speed up in the last 15 seconds. Once intruder is detected, the alarm and dialing will be delayed accordingly.

Enable Remote Phone Control

Example: Enable the remote phone control, and program ringing times of automatic answer to be 8 times.

Enter setup state, input ∗ 3 ∗ 8 ∗

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Note!
User may program the time to be 2-9 times.
Default setting: Remote phone control is disabled.

Disable Remote Phone Control

Enter setup state, input ∗ 3 ∗ ∗

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Note!
Default setting: Remote phone control is disabled.

Special tips!
If user cannot remote control the system by phone, please make sure the function of {Remote Phone Control} is enabled.

Change Password

Enter setup state, input ∗ 9 ∗ new password ∗

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Note!
The password must be any 4,5,or 6-digit code between 0 and 9.
Default password: 1234.

Restore Default Settings

Enter setup state, input ∗ 0 ∗ ∗

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Note!
All settings are restored to default; the password is restored to 1234.
The restoring programming will not affect stored phone numbers.

Program Phone Numbers

Store Phone Numbers

Example: Store the 1st phone number as 12345678.

Enter setup state, input **# 1 # 12345678 #**

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Example: Store the 2nd phone number as 23456789.

Enter setup state, input **# 2 # 23456789 #**

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

6 users' phone numbers and 2 CMS phone numbers can be stored.

Special tips!
The 1st to the 6th phone numbers are for users' phone numbers.
The 7th and the 8th phone numbers are for CMS (No need to set the phone numbers if the system is not connected to CMS)

If the control panel uses an extension for dialing, 0 ∗ or 9 ∗ should be added before the phone number.

Example: Store the 1st phone number as 12345678.

Enter setup state, input **# 1 # 0 ∗ 12345678 #**

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Delete Phone Numbers

Example: Delete the 1st phone number.

Enter setup state, input # 1 # #

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Example: Delete the 2nd phone number.

Enter setup state, input # 2 # #

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Note! Delete all existing alarm phone numbers: # 0 # #

Exit Setup State

Under the setup state, press {setup } button until 2 beeps are heard, and the setup LED indicator blacks out, the system exits setup state.

Alarm Response When Being Out of Home

When the system detects intruders, the on-site siren will hoot immediately, and the control panel will auto dial the pre-stored phone numbers.

The user can monitor the site and control the system by phone when getting the alarm call.

Note!
No need to input password to remote control the system when getting the alarm call.

Remote Phone Control

Suppose that you forget to arm the alarm or want to monitor the site by phone when you are out, you may dial the system phone number. After the ringing times you preset, input {password + #} by following the voice prompt of "Please enter your access code". Enter the state of remote phone control once the voice prompt of "Correct code, you can remote control the system now." is heard.

Note!
No operation after getting through for 30 seconds, the system will hang up automatically.

Special tips!
If the phone is hung up without voice prompt, please make sure {Phone remote control} is enabled.

Programming List

Description	Operation Command	Functions	Remarks
Program Ringing Time of the Siren	∗1∗9∗	[9] Refers to the minutes that the siren keeps alarming. User can program to be 1~9 minutes.	Default setting: 5 minutes.
Program Exit Delay & Entry Delay	∗2∗60∗	[60] Refers to the delayed time. User can program to be 0~300 seconds.	Default setting: No Delay. The value of time is 0.
Program Phone Remote Control	∗3∗∗	Disable phone remote control.	Default setting: Disable
	∗3∗8∗	Enable phone remote control, and program the ringing times of automatic answer to be 2~8 times.	
Change Password	∗9∗ new password ∗	User's password is any 4,5, or 6-digit code between 0 and 9.	Default password: 1234
Restore Default Settings	∗0∗∗	Reset system to default setting.	Note! The restoring operation will not affect stored phone numbers.
Program User Number for CMS	∗20∗ user number ∗	User number is 4-digit code number, 0 should be added in front of the one less than 4 digits.	No need to set if the system is not connected to CMS.
Uploading Arm/Disarm Report	∗21∗0∗	[0] Refers to not to upload arm/disarm report	No need to set if the system is not connected to CMS.
	∗21∗1∗	[1] Refers to upload arm/disarm report	
Program Phone Numbers	＃(1~8)＃ phone number ＃	Please refer to [Program Phone Numbers].	[1~6] refers to users' telephone numbers. [7~8] refers to telephone numbers for CMS. No need to set the numbers if the system is not connected to CMS.
Delete Phone Numbers	＃(1~8)＃＃	Delete one of phone numbers.	If no number is stored, the system will not auto dial.
	＃0＃＃	Delete all the phone numbers.	
Exit Setup State	Press [setup] button	The system will exit programming state after two beeps.	

Phone Remote Control Instruction

Operation	Function	Illustration
Press 1	The system is armed after one beep.	It's recommended to arm the system by phone if you forgot to arm the system.
Press 0	The system is disarmed after two beeps.	It's recommended to disarm the system by phone if you forgot to take the remote control.
Press 9	Turn on siren	It can deter the intruders.
Press 6	Turn off siren	
Press ∗	Monitoring the site	
Press #	System exits phone remote control state.	Hang up the phone

Specifications

Product name
PSTN Security alarm system

Model No.
CG-A8

Control panel's power supply
Input: AC 110~240V/50~60Hz
Output: DC 12V/500mA

Standby current
25mA

Alarm current
260mA

Internal battery backup
7.4V/500mAh battery pack

Internal siren
110dB

Allowed amount of expandable wireless accessories
60 PCS in total (including Wireless Remote Control)

Radio frequency
315MHz/433MHz (±75KHz)

Housing material
ABS plastic

Operation condition
Temperature: -10°C~55°C
Humidity: ≤ 80% (non-condensing)

Panel size (L x W x H)
125×123×35mm

Program User Number for CMS

⚠ No need to set if the system is not connected to CMS.

Enter setup state, input **＊20＊user number＊**

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

User number must be 4-digit code between 0 and 9, 0 should be added in front of the one less than 4 digits.

Example: Program the user number to be 8800.

Enter setup state, input **＊20＊8800＊**

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Uploading Arm/Disarm Report

No need to set if the system is not connected to CMS.

Enter setup state, input ＊21＊{0/1}＊

When the voice prompt of "Operation succeeded" is heard, the setup is successful.

[0] Refers to not to upload arm/disarm report.
[1] Refers to upload arm/disarm report.

Example: Uploading Arm/Disarm Report

Enter setup state, input ＊21＊1＊

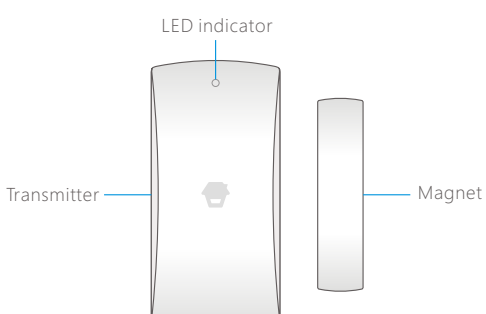
When the voice prompt of "Operation succeeded" is heard, the setup is successful.

Wireless Door/Window Contact

Features

The DWC-100 is a Door/Window Contact that can be installed on doors, windows, and any other objects that open and close. The sensor transmits signals to the control panel when a magnet mounted near the sensor is moved away. External input for wired accessory is available at the N/C interface. The tamper protection ensures that sabotage attempts to move the contact will result in an alarm activation.

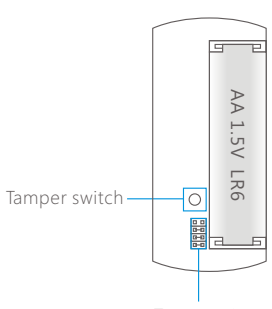
Appearance



LED Indication

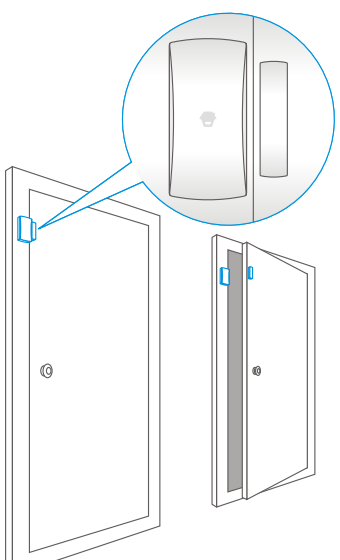
LED flashes once: Door/window is opened and transmitter sends signal to the control panel.
LED flashes quickly: Low power indication, please change battery as soon as possible.

PCB Layout



Installation & Notice

- Open the case and remove the battery activation strip.
- Mount the sensor on the door frame and the magnet on the door.
- Make sure the magnet is on the right side of the transmitter
- Place the transmitter in the desired location, mount the magnet no more than 1cm away from the transmitter and secure the transmitter and magnet with double-sided tapes or screws.
- Avoid mounting sensors in areas with a large quantity of metal or electrical wiring, such as a furnace or utility room.



Specifications

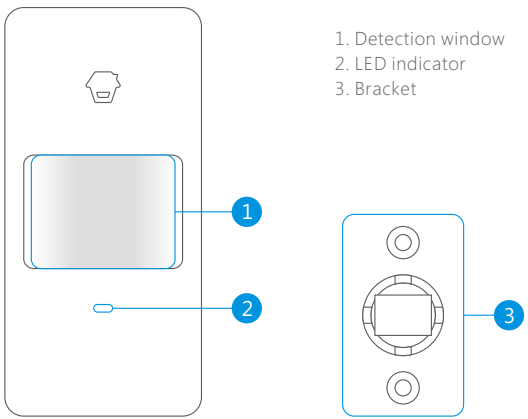
Power supply
DC 1.5V (AA 1.5V LR6 Battery x 1pc)
Static current
≤ 30uA
Alarm current
≤ 40mA
Transmitting distance
≤80m (in open area)
Radio frequency
315MHz/433MHz (±75KHz)
Housing material
ABS plastic
Operating temperature
-10°C~55°C
Relative humidity
≤80% (non-condensing)
Transmitter dimensions (LxWxH)
71 x 34 x 17.5mm
Magnet dimensions (LxWxH)
51 x 12 x 13.5mm

Wireless PIR Motion Detector

Features

PIR-900 is a high performance wireless P.I.R. motion detector. It consists of digital dual-core fuzzy logic infrared control chip and intelligent analysis which effectively identify interference signals from body movement signals and reduce false alarm rate. With automatic temperature compensation and anti-air turbulence technology, it easily adapts to environmental changes. The detector also has the advantages of energy saving, reliability and easy installation.

Appearance

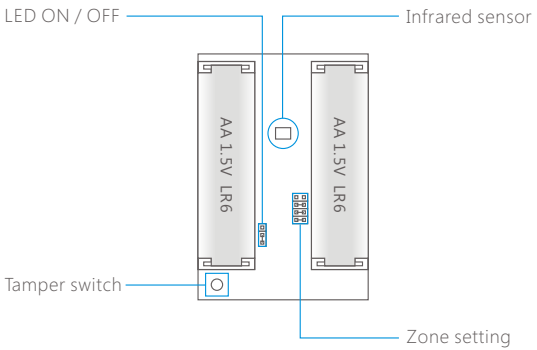


1. Detection window
2. LED indicator
3. Bracket

LED Indication

Flash continuously: Under the self-testing state.
Flash once: Intruder is detected.
Flash twice: Self-testing is finished, enters the working mode.
Flash once per 3 seconds: Under voltage indication, please change the batteries immediately. (User will get alert SMS about the low battery if the PIR detector is connected to the GSM alarm system.)

PCB Layout

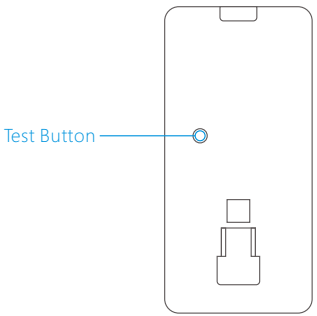


Infrared sensor: It detects the infrared rays released by human body motion, please don't touch the surface and always keep it clean.
Tamper switch: Once the case is opened in working state, the tamper switch will be triggered and then generates an alarm signal.

Usage

Open the case and remove the battery activation strip to activate batteries. It will start self-testing for one minute.

Mode Setting



Testing mode:

After self-testing, press the test button, the sensor enters testing mode, and detects once every 10 seconds. After 3 minutes, the LED flashes twice, and the sensor enters the working mode.

Working mode:

In working state, if the sensor is triggered more than twice within 3 minutes, it will enter sleeping mode to save power. After no movement within next 3 minutes, the sensor goes back to the working mode.

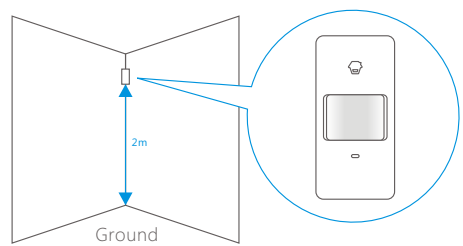
Connect to alarm panel:

Press the connect key on the alarm panel, and then press the test button of the sensor twice to send alarm signal. When one beep is heard, they are connected.

To check if they are connected successfully, arm the system, and trigger the sensor again, if there is an alarming, the connection is successful.

Installation & Notices

Avoid mounting the detector close to windows, air conditioner, heater, refrigerator, oven, sunshine and places where the temperature changes fast or the air stream flows frequently.
If two detectors are installed in the same detection scope, please adjust the location to avoid interference and false alarm.



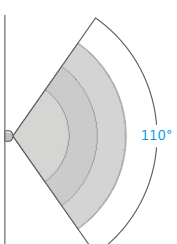
Fix the bracket on the wall with screws and attach the detector to the bracket. Adjust installation height or bracket to change the detection distance and angle. It is recommended to mount it at the height of 2m from the ground.

The detector is more sensitive to the cross movement than to the vertical movement, so the performance of detector is best when the detection direction is vertical to the walking direction of people.

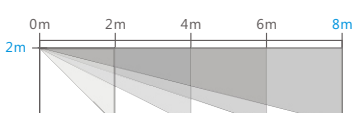
Testing (Walk Test)

A. After installation, power on the detector. After one minute self-testing, press the test button, walk in the scope (from left to right or from right to left) and watch the LED indicator to make sure the detector is working.
B. The LED indicator flashes once when body movement is detected.
C. Adjust the detector angle accordingly to achieve the best detection effect.

Detection Scope



Top view



Side view

Specifications

Power supply
DC 3V (AA 1.5V LR6 Battery x 2 pcs)
Static current
≤ 50uA
Alarm current
≤ 9.5mA
Detection scope
8m/110°
Transmitting distance
≤ 80m (in open area)
Radio frequency
315MHz/433MHz (± 75KHz)
Housing material
ABS plastic
Operation Condition
Temperature: -10°C~55°C
Relative humidity: ≤80% (non-condensing)
Detector dimensions (L x W x H)
108 x 52 x 36.8 mm
Bracket dimensions (L x W x H)
52 x 30 x 26.5 mm