

Smart Wireless Anti-Burglary Alarming System

BLAZE AUTOMATION SERVICES (P) LTD

Wireless Home

Operating Instructions





Thank you for buying BLAZE Smart Wireless Anti-Burglary Alarming System. For proper use and your safety, please read these instructions thoroughly and carefully before you put the system in use. Keep this manual carefully for your reference in the future.



WARNING!

Do not remove the front cover or back cover of the unit and keep intact the warranty tape. There is no part that can be repaired by user inside the unit. If repairing is needed, please contact dealer of the product or authorized maintenance center.

The information contained in this manual is prepared for BLAZE HOME SECURITY system only. BLAZE adopts a sustainable development strategy. Therefore, BLAZE retains the right to modify or make improvement to any product described herein without giving prior notice. © Copyright 2006, BLAZE. All rights reserved. The name of other companies or products referred to herein may be the brand or product name of their respective owners.



Make full advantage of these Operating Instructions

The components of the alarming system are described in the section below. It is helpful for you to understand the instructions contained herein better to read it carefully.

The following terms in this manual describing the operation procedure have the following meaning.

□ Input□ and □ Press□ means the act to press and then quickly release one button. For example, press □ 7□ means the act to press the button which is marked □ 7□ and□ press□ .

□ Press Down□ means to press and hold down one button for about 2~3 seconds and then release.

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Welcome Message

Thank you for buying BLAZE Smart Wireless Anti-Burglary Alarming System. It can provide protection and security for your home. The system uses ATMEL[®] microcomputer processor and has 10,000,00 inlet RF pin sets, as a result, it maintains very high reliability and safety. Since automatic RF recoding technology is adopted, users may easily add various RF accessories to the system by DIY. The operation is very easy.

Precautions

Please read and follow the brief instructions below, otherwise physical danger or system damage may be incurred. This manual contains more detailed information about safety issues concerning the system in other parts hereof.



Proper use

Read this manual carefully before you put the system in use. Operate in accordance with the instructions herein.



Water proof ness

The alarming system is not waterproof. Please keep it dry.



Qualified maintenance service

Only those qualified maintenance professionals may repair the alarming system.



Backup

Be sure to back up all important information stored in the system or record them on the NOTE page attached hereto.



Original parts and batteries

Only original parts and batteries approved by BLAZE may be used, otherwise the warranty term may be breached and danger may occur.



Addition of other equipment

Before adding other equipment, please read the user manual for detailed safety instructions. Be sure not to connect incompatible products to the system.



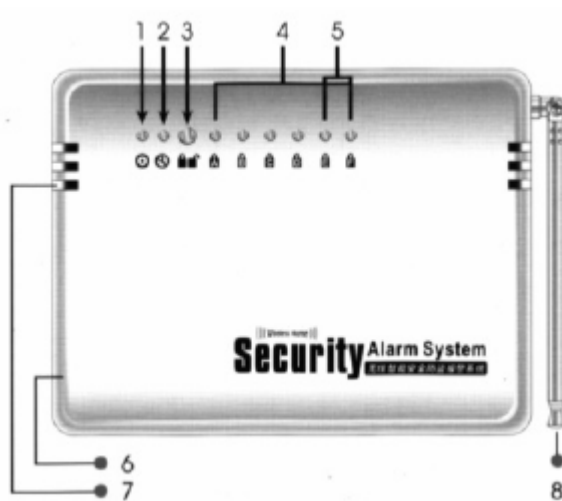
Features of the system



- 100% wireless configuration, installation by DIY
- Convenient operation by remote control
- 10,000,00 inlet RF pin sets maintains high reliability
- Simple accessory expansion by automatic recoding
- Late-night mute remote control
- Remote control realizes detection by areas
- On-site high-loudness deterring alarm
- Automatic dialing of 8 pre-set phone numbers
- Alarming detection area cue tone for remote monitoring by telephone
- Digital high-fidelity voice message recording, automatic replaying
- Phone line cut and damage alarming
- Remote Detection On/Detection Off setup or siren triggering by telephone
- Active or passive remote monitoring of the site via telephone
- E²PROM information protection, power cut won't cause damages to data
- Automatic switch between AC and DC ensures uninterrupted operation of the system
- Expandable RF relay module enables the activation of other RF accessories after alarming
- Standard cable alarming signal interface
- Compatible with computerized community alarm processing center, smart community alarming network may be established

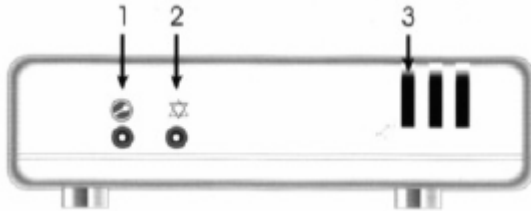
Components of the main unit

- 1 Supply indicator
- 2 Setup indicator
- 3 [] Detection on [] / [] Detection off [] indicator
- 4 Wireless detection area alarming indicator
- 5 Cable detection area alarming indicator
- 6 Phone line cut warning switch
- 7 On-site monitoring microphone
- 8 Antenna



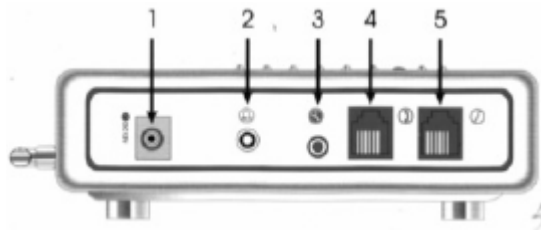
Components on the right side of the main unit

1. Voice message recording button
2. Recoding button
3. Microphone

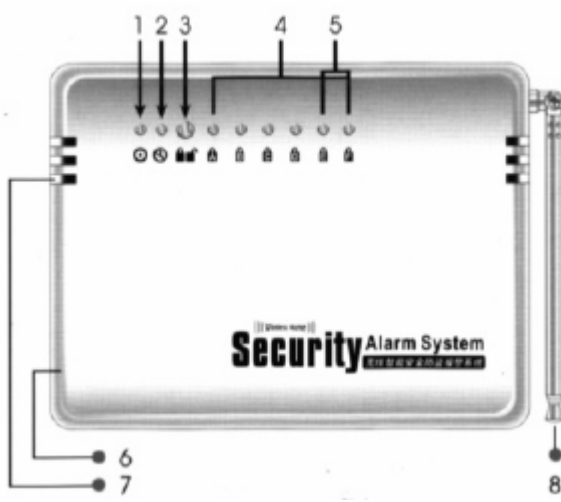


Components on the rear of the main unit

1. Power adaptor socket
2. Siren interface
3. Setup button
4. Telephone interface
5. Phone line interface



Standard system configuration



Main unit × 1



Slide-cover remote RF controller × 1 Micro remote RF controller × 1



RF portal magnet × 2



UPS adaptor × 1

Standard system configuration



Wireless IR detector × 1



High-loudness siren × 1



Phone cable × 1



User manual × 1



Warranty sheet × 1

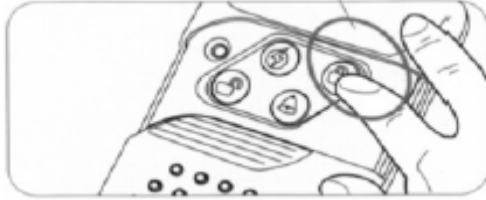
Operation instructions for the remote controller





Detection on

Press down the [Detection On] button



The Detection On/Off indicator lights and flickers [] intermittently in red



Press down the [Detection on] button on the remote controller until the siren connected to the main unit gives off a tone and at the same time the Detection On/Off indicator on the control panel of the main unit flickers intermittently in red. The six detection areas [] are all now detection on.

Thereafter, if intruders are detected, the siren will be triggered and ring to deter the intruder. At the same time, the main unit will dial the pre-set alarming phone numbers through the phone line.

Partial detection on (“At Home” mode)



Press down the [Detection on] button and then press the [Detection area] button until the Detection On/Off indicator lights and flickers intermittently in red. From then on, five detection areas, namely, [] except [] are all detection on.

Area [] is detection off. For instance, there is one wireless IR sensor in the living room, when you are in the living room, you want the areas around your house to be on detection and the living room off detection, in this case, you may code the area of this sensor as detection area []. You may set the “At Home” mode by following the above procedures.



Detection off


Press down the [Detection off] button on the remote controller until the siren connected to the main unit gives off two consecutive [Deed] tones and at the same time the Detection On/Off indicator on the control panel of the main unit blacks out. The alarming system is now detection off.

Press down the [Detection off] button when the system alarms, the main unit will stop alarming (the siren stop ringing and the main unit stop dialing phone numbers).

The corresponding indicator of the detection area of the sensor triggered will continue to flicker in red for the convenience of check. Press down the [Detection off] button again will totally cancel detection and the indicators of all detection areas will black out.



Emergency call



No matter what mode the main unit is in, pressing down the Emergency Call  on the remote controller or on the emergency call button will immediately put the main unit into emergency alarming mode. The siren will ring to deter the illegal intruder, and the main unit will dial the pre-stored alarming phone numbers through the phone line. The indicators of all detection areas on the main unit will flicker simultaneously.






Press down the Emergency Call  button on the remote controller



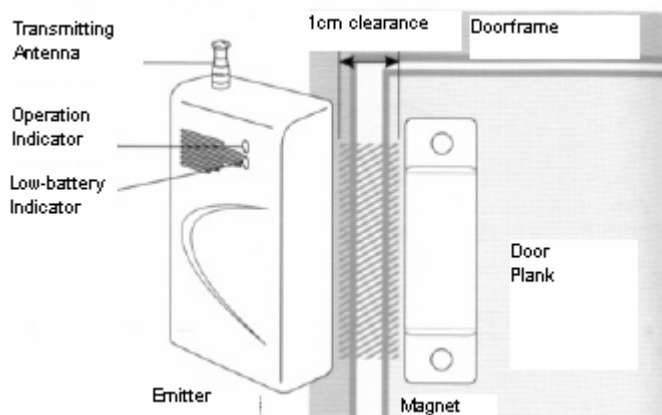
Mute operation

Press down the Detection on  or Detection off  button on the remote controller until the siren connected to the main unit gives off a Dee tone. If you need to turn off the siren cue tone, you may follow the procedures below.

Press down the Mute  button on the remote controller, press down the Detection On  or Detection Off  button on the remote controller as the case may need until the inlet buzzer of the main unit makes a single low Dee sound (the external siren does not make a sound). Relevant operation can be conducted in mute and won't disturb other people now.

Summary of the RF portal magnet

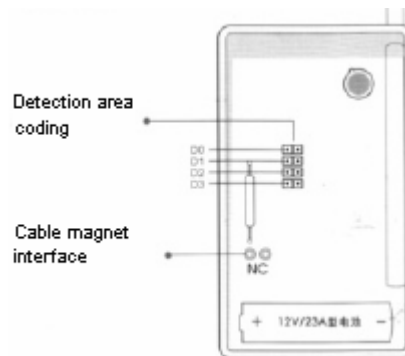
The design of the RF portal magnet is simple but reliable. When the distance between the emitter and the magnet is greater than 1cm, RF alarming signals will be sent to the main unit immediately. Use life of the battery is generally between 8 and 12 months, it depends on the opening frequency of the door. The battery shall be replaced by a new one when the low-battery indicator lights in red.



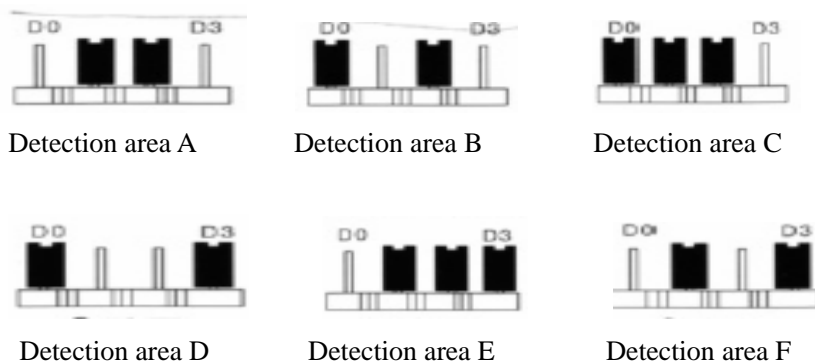
Installation method

1. Clean the surface of the mounting location.
2. Tear apart the double-side adhesive tape on the front of the magnet and adhere it to the appropriate position.
3. For steadier mounting, you may remove the plastic cover of the magnet and then drive two screws through the back cover.
4. If it is mounted on a metal door or window, and signal transmitting is not ideal, it is recommended that you underlay the magnet with something non-metal to improve the result. You may also option to buy a RF magnet for roller shutter door.

Diagrammatic drawing of the circuit board



RF accessory detection area coding



The RF portal magnet is set to detection area **A** in default. You may recode the detection areas according to your own needs or code the detection area of the newly-added RF accessory.

Note! It is recommended that you code the detection areas under the instructions of the technician with the dealer.

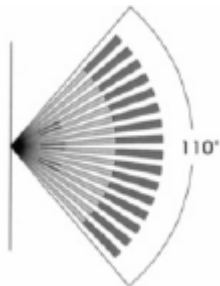
Summary of the wireless IR detector

The detector has a streamlined outer design. It uses high-quality IR sensor for the collection and detection of signals and analyzes them with a special IR control chip. When the intruder enters the detection area, the detector will immediately send out RF alarming signals to the main unit. The test mode provided by the IR detector makes commissioning of the system very easy.

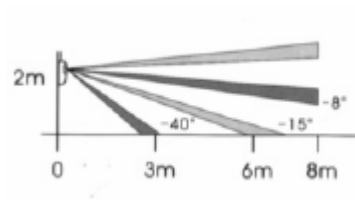
Technical specifications

Power supply	Operating current
9V (1 9V/6F22 battery)	Mute $\leq 35\mu\text{A}$ Alarming $\leq 15\text{mA}$
Operational principle	USE mode (energy-saving)
Electrical IR heat radiation sensing	Minimum intermittence between two times of alarming is 3 minutes
Test mode	Detection range
Minimum intermittence between two times of alarming is 10 seconds	8 m/110°

Exhibition of detection range

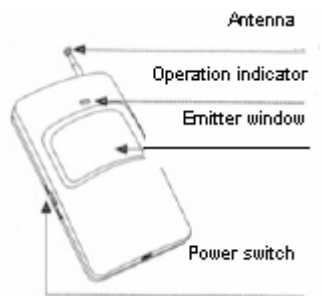


Top view



Side view

Outside drawing of the products

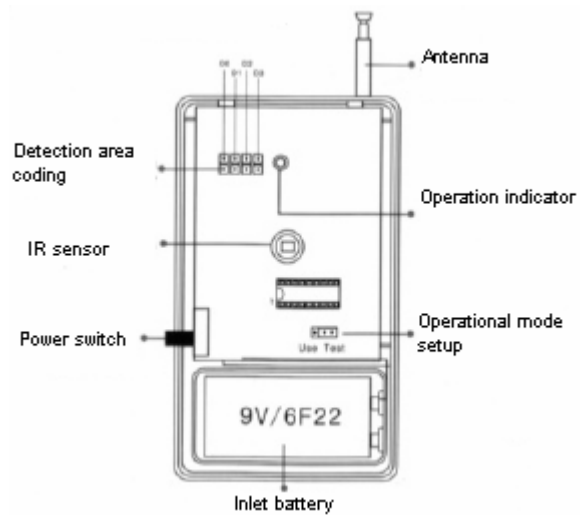


Adjustment bracket



Installation base

Schematic diagram of the circuit board





Operation indicator

If the green indicator lights, it indicates that intruder is found in the detection area. The detector will send out RF alarming signals to the main unit.

If the red indicator lights steadily, it indicates low-battery of the detector. You shall replace it with a new battery; otherwise, normal operation of the system will be influenced.

Operational mode setup

Set the jumper to the USE position (USE mode)



In order to save power supply, the minimum intermittance between two operations of the detector is 3 minutes.

Set the jumper to the TEST position (TEST mode)



For the convenience of installation and commissioning, the minimum intermittance between two operations of the detector is 10 seconds.

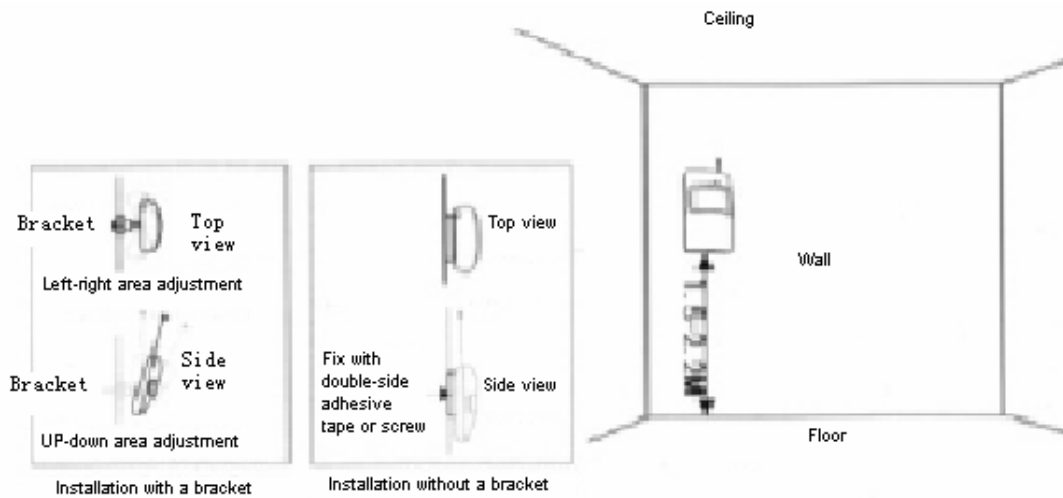
Installation

Mount the detector adjustment bracket on the wall with screws and insert the detector into it. It is recommended to mount it in a height of 2.2 m from the floor. Make sure the indicator is above the emitter window and the antenna points upward when it is mounted, otherwise the detection result will be adversely influenced.

The detection distance and angle can be changed by adjusting the mounting height and angle of the adjustment bracket.

This detector is for in-door use. Please follow the instructions when you install and use it. Result of the detection is best when its direction is perpendicular to the walking direction of the intruder.

Installation diagram



Starting operation

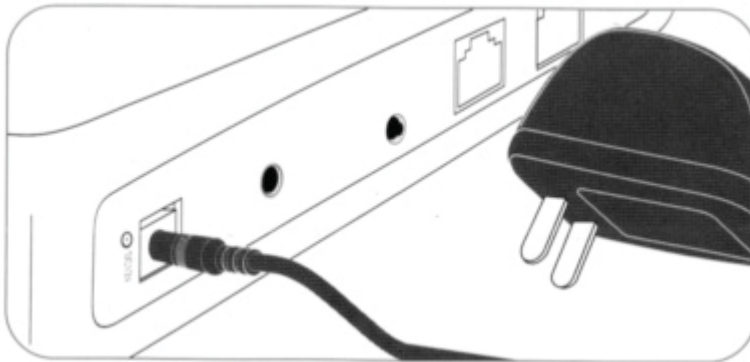
Turn the power switch on the left side of the detector to the ON position when commissioning is completed. After 3 minutes' self-check, the detector will enter into normal operation.

Precautions



- Be sure not to drop or hit the detector when it is installed to avoid damages to the IR sensor inside and the emitter window outside.
- Do not touch the IR sensor when removing the cover of the detector to avoid polluting the sensor's surface.
- The detector shall be set to the Operation mode (energy-saving mode) when installation and commissioning are completed.
- Mount the detector a distance away from objects such as heater, air conditioner, microwave oven, etc., that produce heat or electric-magnetic field.
- Be sure not to mount the detector where directly exposed to sunlight or other strong light or frequent strong airflow.
- The detection distance will be shorter when the temperature in the detection area goes higher than that of human body. This is normal and can be settled by adjusting the mounting position of the detector properly.

Starting the main unit

- A. Insert the output end of the supply adaptor into the supply input socket on the rear of the main unit.
- B. Plug the adaptor in a standard AC supply socket.



System setup

Press and hold down the SETUP button on the rear of the main unit, at the same time press down the  Detection on  button on the remote controller with another hand until the Setup indicator on the control panel of the main unit lights in red steadily. The system is now in Setup mode.

Store the alarming phone numbers on the main unit or set up the extended functions of the system with a connected telephone.


The main unit saves your setup information on the E²PROM chip, and even power cut won't cause damages to the data.

Entering setup mode



Press and hold down the  Setup button on the rear of the main unit



At the same time press down the  Detection on button on the remote controller



Extended system function setup by DIY



Set up ring time of the siren

Example: set [] ring time to 9 minutes[]

Enter SETUP mode, input: *1*9*

When you hear three consecutive [] Deel[] tones, the setup is successful.

Note! [] 9[] means the ring minutes. User may set the ring time to 1~9 minutes.

Default setup: 5 minutes.

Delayed Detection On and Delayed Alarming setup

Turn on Delay [] detection on, alarming, 1 minute[] :

Entering Setup mode, input: *2*1*

When you hear three consecutive [] Deel[] cue tones, the setup is successful.

Turn off Delay [] detection on, alarming[]

Entering Setup mode, input: *2*0*

When you hear three consecutive [] Deel[] cue tones, the setup is successful.

Note! [] 1[] means minutes of the delay of [] Detection on, alarming[] . User may set the delay time to 1~9 minutes.

Default setup: off

Special tip! If [] Detection on, alarming[] Delay is on, when intruders are detected, alarming will be delayed correspondingly. When Detection On is delayed, the main unit will make a [] Deel[] tone every 1 second.

Phone number dialing rounds setup

Example: set ☐ phone number dialing to 6 rounds☐ :

Enter setup mode, input: *3*6*

When you hear three consecutive ☐ Deel☐ cue tones, the setup is successful.

Note! ☐ 6☐ means the rounds of dialing. User may set dialing to 3~9 rounds.

Default setup: 3 rounds

Automatic answer ring times setup

Enter setup mode, input: *4*3*

When you hear three consecutive ☐ Deel☐ cue tones, the setup is successful.

Note! ☐ 3☐ means ring times of the telephone. User may set ring times to 3~9.

Default setup: 8 times.

Restoration to default setup

Enter setup mode, input: *0**

When you hear three consecutive ☐ Deel☐ cue tones, the setup is successful.

Note! When the system is restored to the default setup, pin of the system will be restored to the default ☐ 1234☐ , all functions of the system will be initialized and restored to the default status.

Remote telephone control setup

Turn on remote telephone control:

Enter setup mode, input: *5*1*

When you hear three consecutive □ Deel □ cue tones, the setup is successful.

Turn off remote telephone control:

Enter setup mode, input: *5*0*

When you hear three consecutive □ Deel □ cue tones, the setup is successful.

Note! Default setup: off

Change the initial pin for remote telephone control

Enter setup mode, input: *9*new password*

When you hear three consecutive □ Deel □ cue tones, the setup is successful.

Note! User shall set the pin with four digits.

Special tip! User shall remember and properly keep the new pin, disclosure of which may enable other people to enter the system illegally from a remote end!

Alarming phone number setup

Store alarming phone numbers

Enter alarming phone number setup mode, for each press of a key on the keyboard of the phone, the main unit makes a [Deel] tone, indicating instruction accepted.

Store the 1st alarming phone number: #1#87654321#

When you hear three consecutive [Deel] cue tones, the storage is successful.

Store the 2nd alarming phone number: #2#13912345678#

When you hear three consecutive [Deel] cue tones, the storage is successful.

If the main unit uses an extension for dialing, [0] or [9] shall be added before the phone number to be stored.

The method to restore the 1st alarming phone number is as follows: #1#0*87654321#

When you hear three consecutive [Deel] cue tones, the storage is successful.

Note! [0] or [9] means the outside connections dial number,

[*] means a 3-second pause after it is put through to the outside connections.

Similarly, up to 8 alarming phone numbers can be stored. Numbers of both fixed-line phones and mobile phones can be stored. Users may decide the sequence of the numbers according to their own needs.

Delete/change alarming phone numbers

Delete the 1st alarming phone number: #1##

When you hear three consecutive □ Deel □ cue tones, the deletion is successful.

Delete the 2nd alarming phone number: #2##

When you hear three consecutive □ Deel □ cue tones, the deletion is successful.

Perform similarly for subsequent cases.

To change an existing alarming phone number, you only need to repeat the number storage procedures, the old number will be replaced by the new one correspondingly.

Delete all existing alarming phone numbers: #0##

When you hear three consecutive □ Deel □ tones, the deletion is successful.

Recording alarming voice message

The main unit has an ISD[®] chip which can record 10 seconds of voice message. You may pre-record the alarming voice message in case the system detects intruders when you are not home, it will automatically dial the phone numbers you've pre-stored on the main unit, after you are put through for a few seconds, it will replay the pre-recorded message to remind you to take proper alarm responding measures.

ISD[®] voice message chip has information protection capability, once recorded on it, the voice message won't be damaged by power cut.

Procedures for recording

Press and hold down the Recording button in the Detection Off mode, when the Setup indicator lights in red, speak out the message (e.g., alarming address and help message, etc.) to the MIC. Release the button when recording is completed.

To change the voice message, you only need to repeat the procedures above.

Press and hold down the [Voice message recording] button



Speak out the message to the [MIC]



Remote telephone control

Suppose that you forget to set the alarming system to [Detection On] when you are out or want to monitor the site through the telephone, you may dial the number connected to the system with any available telephone. After you hear the ring tone for the preset times, you may hear a [Dee] tone for 2 seconds, now you may input the 4-digit user pin with the keyboard of the telephone, and when you hear a single [Dee] tone, it means you are put through to the system and may proceed with the setup of the system via the telephone.

Special Tip! If you do nothing when you are put through to the system by the telephone in 30 seconds, the system will hang up automatically.

When setup is completed, press down the [Detection Off] button on the remote controller, the Setup indicator on the control panel of the main unit will black out after flickering consecutively for 3 times. The main unit escapes Setup mode.

Press down the [Detection Off] button on the remote controller



Alarm processing from a remote end

When the system detects intruders, the on-site siren will immediately ring to deter the intruder, meanwhile, the main unit will automatically dial the pre-set alarming phone number. If the user does not proceed with the remote control setup after receiving the alarm, the system will dial all the pre-set alarming phone numbers in round.

Note! If the user hears the voice message on the phone, he/she can enter [remote telephone control] setup mode with no need to input user pin.

Remote telephone control instructions

Button operation	Description	Remarks
Press 1	You will hear one single [Dee] tone, and the system enters [Detection On] mode	If you forget to set [Detection on] before leaving home, this method is applicable
Press 0	You will hear two consecutive [Dee] tones, and the system enters [Detection Off] mode	If you forget to bring the remote RF controller with you, this method is applicable
Press 7	The siren will be triggered and ring	It can deter the intruder
Press 6	Shut down the siren	Shut down the siren and it will stop ringing
Press *	Monitor the site for 60 seconds Monitor the alarming detection area	If you want to monitor for a longer period, pressing [*] before it ends monitoring will prolong 60 seconds
Press #	Escape remote telephone setup	Or directly hang up the phone

Alarming detection area cue tone

Detection area A	1 [Deel] tone
Detection area B	2 consecutive [Deel] tones
Detection area C	3 consecutive [Deel] tones
Detection area D	4 consecutive [Deel] tones
Detection area E	5 consecutive [Deel] tones
Detection area F	6 consecutive [Deel] tones

Special Tip! The alarming detection area cue tone can be monitored only when the detection area indicator flickers.

Nullification of RF accessories

In case that a RF accessory especially the remote RF controller is lost, in order to keep the system safe, the RF accessory shall be nullified so that other people won't be able to carry out illegal activities with the lost accessory.

Press and hold down the recoding button, the recoding indicator will light, release the button when the recoding indicator blacks out, the main unit will automatically nullify all recoded RF accessories. To restore the alarming system to normal operation, recode the useful RF accessories by following the recoding procedures.

Recoding of newly-added RF accessory

Since the system adopts the automatic recoding technology, any newly-added RF accessory is not usable until it is recoded with the main unit.

Procedures

Press down the Recoding button for 0.5 second and then release it, the Recoding indicator will light and then automatically black out, the main unit is now in recoding mode, recoding will begin by triggering the RF accessory one time only (for example, by pressing any button on the remote RF controller or by separating the RF portal magnet emitter and the magnet). Once the main unit receives the signals emitted by the RF accessory, the recoding indicator will flicker and then black out. Trigger the accessory again to see whether the recoding is successful.

These procedures are applicable to the addition of new RF accessories (remote RF controller, RF portal magnet, wireless IR detector) or recoding of RF accessories after accessory nullification.

Press down the Recoding button for 0.5 second and then release it, the main unit will enter Recoding mode



Special tip! If the signals emitted by the wireless accessory are not received by the main unit in 30 seconds after the Recoding button is press down, the system will automatically give up recoding and maintain the original status.

Trouble shooting

Problem	Possible causes	Solution
The inlet buzzer in the main unit keeps ringing	Phone line failure detected by the main unit	Set the phone line cut alarming switch to Off position or check the phone line
The unit cannot alarm properly	Whether it is set to the “At Home Mode”	Set the RF accessory that is possibly triggered to Detection Area A, i.e., At Home Mode, set it to Detection Off and then set it to Detection On.
Newly-bought RF accessory won't work with the alarming system	Recoding between the RF accessory and the main unit is not conducted	Conduct recoding between the RF accessory and the main unit in accordance with the relevant procedures herein
The main unit cannot receive the signals emitted by the RF accessory	Inlet battery of the wireless accessory is used up or the main unit and the RF accessory are blocked by some object	Change the battery Pull out the antenna of the RF accessory and the main unit further, and relocate the main unit
Alarming phone number setup via phone fails	Non-standard dual-frequency telephone is used	Change with a standard dual-frequency telephone

Problem	Possible causes	Solution
The detection distance of the wireless IR detector gets shorter	The operating temperature of the detector is too high	It is normal that the detection distance gets shorter when the temperature in the detection range gets higher than that of human body
The red low-battery indicator of the RF portal magnet or the wireless IR detector lights	The inlet battery of the RF portal magnet or the wireless IR detector is used up	Replace with a new battery
During recoding, the Recoding indicator automatically blacks out before the accessory to be recoded is triggered, and recoding comes to an end	Other RF signals may be recoded by mistake	The RF accessories already recoded shall be nullified promptly, and recode all wireless accessories again
Alarm cannot be relieved when the alarm is received from a remote end	Instructions are input and remote operations are conducted before the voice message is heard when alarm is received on the phone	You may input the instructions and enter the system to choose to conduct monitoring or set the system Detection Off only when you have heard the voice message
Remote site monitoring via phone fails	The main unit is located outside the monitoring range. Intruder detected on the site and the siren rings	Relocate the main unit to a proper position within the monitoring range. Press [6] to shut down the siren first when you enter the site monitoring mode via phone

Care and maintenance

The alarming system has an excellent design and uses advanced technologies. It shall be used with care. The following suggestions are helpful for you in performing the liabilities specified in the warranty terms and for prolonging the service life of the system.

- Place the main unit and all parts and accessories where children cannot reach.
- Keep the alarming system dry. Rain, humidity and various fluids or moisture all may contain minerals that will corrupt the electronic circuit.
- Do not use or place the alarming system in dirty locations, otherwise the electronic elements will be damaged.
- Do not place the system in excessively hot locations. High temperature will shorten the service life of electronic equipment, damage batteries, deform or even melt some plastic parts.
- Do not place the system in excessively cold locations. Otherwise condensation may occur and damage the circuit board of the alarming system.
- It is recommended that you check and test the alarming system periodically and settle the problems found promptly.
- Check the battery level of each RF accessory periodically, if the battery goes insufficient, replace with a new one so that normal operation can be maintained.
- Since the alarming system is continuously in operation or standby mode, the supply adaptor of the main unit shall be connected to a safe and reliable socket.
- Do not place the alarming system near your bedroom or office table, because the siren will make high-loudness sound in the case of alarming, which may adversely influence your rest or work.
- If the alarming system will not be used for a long period, please disconnect the system from power supply.

Please read the suggestions above carefully and follow the instructions herein. If any of the equipment does not work properly, please send it to the dealer or authorized service point for repair. We will try our best to solve the problem for you the earliest.

Major technical specifications

Name and model

BAS VER1.0 Smart Wireless Anti-Burglary Alarming System

Main unit power supply

Supply adaptor DC 12V/400mA

Standby current:

50mA

Alarming current:

400mA

External backup battery:

UPS-12V (maintenance-free uninterrupted backup supply)

Main unit dimensions (L×W×H)

140mm×105mm×38mm

Service conditions:

Temperature: -10℃~50℃; Humidity: <80%

Radio frequency

315MHZ±75K

RF pin set:

10,000,00 nonrepetitive pin sets, which effectively reduces possible coincident codes.

Number of expandable RF accessories:

60 RF accessories in total (including the remote RF controller).

Loudness of the external siren:

105dB

Battery for the slide-cover RF controller:

Layered 12V/23A battery

Battery for the micro RF controller:

Layered 12V/27A battery

Battery for the RF portal magnet:

Layered 12V/23A battery

Expandable RF equipment:

RF smog-sensing alerter; RF gas leakage alerter;

RF glass crack detector; RF acousto-optic siren;

RF emergency call button; other RF accessories.

Thank you for buying BLAZE products

Items you shall keep note for your reference in the future:

Bought on:

Serial number of the unit (on the side of the unit)

Name and address of the dealer

Phone No. of the dealer

Please attach the relevant purchase documents here.



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The technical specifications herein are subject to changes without further notice.

The supply of accessories may differ from one another because of different markets; please contact the local distributors separately. **BLAZE** is the trademark or registered trademark of **BLAZE AUTOMATION SERVICES PVT LTD**.

