GSM Alarm & FWT System

User Manual

Table of contents

1. Brief introduction

The GSM Alarm System S3524A is a new security protection and FWT (fixed wireless termial) solution special for home, house and office and other applications. It based on Wireless GSM Communication network, intergrated Voice communication and Computer technology. When any sensor activated, it will Call&Send SMS to owners telephone immediately. Also, it can be used as a wireless telephone to call and answer calling.

The S3524A equips with LCD display entire operation menu, all operations and settings are visual and intuitive!

What you need is a SIMCard which support Call ID function.

2.Safety Directions

Safe Startup
Do not use GSM Alarm System when using GSM equipment is prohibited or might bring disturbance or danger.

Interference
All wireless equipment might interfere network signals of GSM Alarm System and influence its performance.

Avoid Use at Gas Station
Do not use GSM Alarm System at a gas station. Power off GSM Alarm System it near fuels or chemicals.

Power it off near Blasting Places
Please follow relevant restrictive regulations. Avoid using the device in blasting places.

Reasonable Use
Please install the product at suitable places as described in the product documentation. Avoid signal screening by covering the mainframe.

Use Qualified Maintenance Service
Maintenance can be carried out only by qualified maintainer.

Waterproofness
The product is not waterproof. Please install it at dry places and keep it dry.

3. Standard Packing List

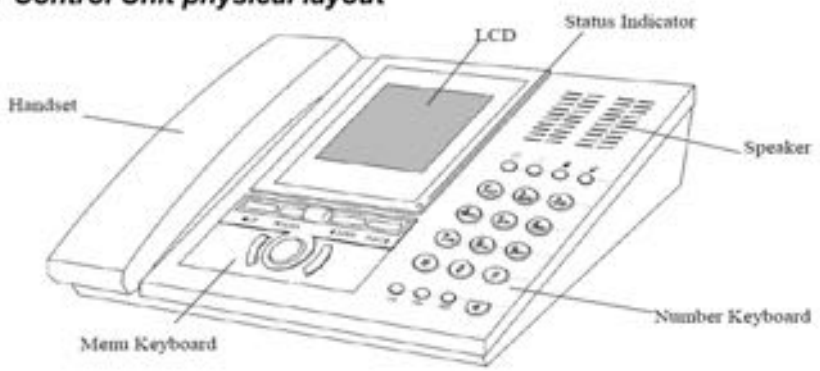
Control Unit X1 Wireless Door Sensor X1
Wireless Remote Controls X 3(A,B,C, The C Remote Control is for elderly person or Child) Regulated 12vDC Power Supply X1
Wireless PIR Motion Sensor X1 Wired Mini Siren(110dB) X1
User Manual X1 GSM ANT X2

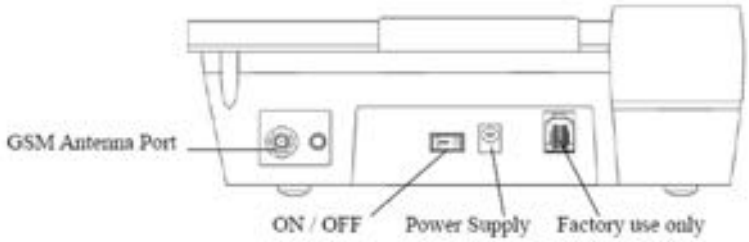
Optional Accessories: (Wireless Sensors Only)

PIR Motion Sensors Glass Break Sensors
Magnetic Window Sensors Magnetic Steel Scrolling Door Sensor
Other Sensors.

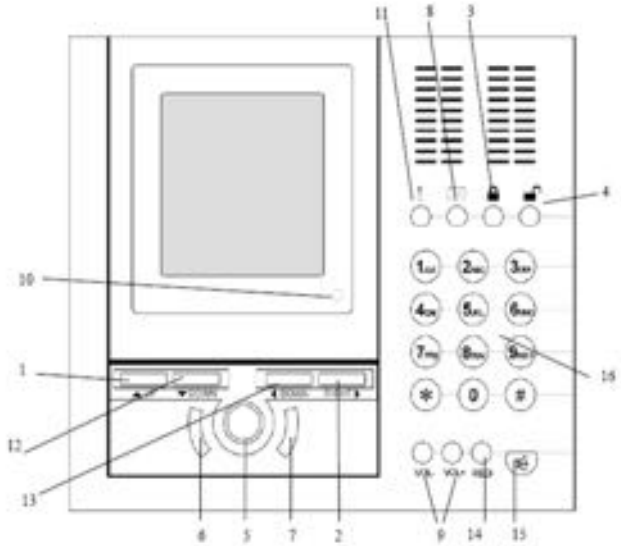
4. Physical Layout

4.1 Control Unit physical layout





4.2 Keyboard Instructions



1) **UP:** Press it on standby mode to check missed calls.
2) **RIGHT:** Press it on standby mode to check dialed numbers.
3) **Arm Button**: Press it on standby mode to choose All Armed Mode or Local Armed Mode with the correct password. If successful, the LCD will show the ICON next the GSM Signal ICON.
4) **Disarm Button**: Press it on standby mode to Disarm the system with the correct password.
5) **MENU**: Press it on standby mode to enter the menu.
6) **Cancel**: Press it on standby mode to enter SMS menu.
7) **OK**: Press it on standby mode to enter the phone book.
8) **SMS Templates**: Press it on standby mode to enter the SMS templates list.
9) **Volume**: Press them to adjust the volume of the dialing tone and the call volume with the help of the volume adjustment string displayed on the LCD. As for the keyboard volume, it will be the same as the ring volume
10) **SMS Indicator**: When there comes a new SMS, it will be turned on while a logo ✉ being displayed on the LCD. The amount of the unread SMS will be displayed on the LCD also. After you have read all the unread SMS, the logo ✉ will be removed, the SMS indicator will be turned off.
11) **SOS**: Press it anytime to ask for emergency helps.
12) **DOWN**: Down direction.
13) **LEFT**: Left direction.
14) **Redial**: Redial the last outgoing call.
15) **Handfree**: Make/Answer calls without pickup the handset.
16) **Number Keyboards**

5. Features

5.1 The advantages of the S3524A

1) Easily to operate; intergrated GSM Alarm System and Cellphone functions;
2) Easily to set up, all the set up are displayed by the LCD instructions;
3) Alert message can be edited by keyboard;
4) Supports Pre-set Message to ask for help;
5) Panic Button(SOS), in order to emergency ask for help;
6) All the telephone basic functions were included in it.

5.2 Functions & Features of the GSM Alarm System

1) GSM Frequency: Tri-Band(900/1800/1900MHz), Quad-Band is optional(850/900/1800/1900Mhz) ;
2) Equips with LCD display entire instruction, ensure it eailer to operateion;
3) Supports armed, disarmed by SMS or remote control or keyboard;
4) Automaticed send SMS Alert and dial to the pre-set cellphone when any sensor triggered;
5) Supports 16 Wireless sensors, the sensor name is editable by keyboard;
6) The Sensors can be set as bypass mode to disarm some sensors and arm some sensors at the same time when you at house condition;
7) Supports 3 SMS alarm cellphones and 5 dial alarm telephone numbers;
8) Supports armed delay to give enough time to you go out the home, the delay time is editable by user;
9) Supports Alarm delay to give enough time to you to enter the home, the delay time is editable by user;
10) The external power failure&recovery alert function is optional ;
11) Supports wiretap through internal Mircophone;
12) Supports wired and wireless siren;
13) Supports alert user by SMS when the remote control has been used to control the system, this function can assignable by user;
14) Equips with SOS button on the remote control and Keyboard for emergency alarm;
15) Pre-set Alert SMS Text Message, when press the SMS Templates button on the Keyboard then can send out the SMS to the user;
16) Standby internal rechargeable battery which can last 10 hours;
17) Based on the GSM communication network and Voice Operation Menu technology, apply to wide range situations;

6. Settings

Tips:

1) Before setting the system, please read the user manual carefully;
2) Please insert the SIMCard and install the GSM ANT to the control unit before power on it. Also, please make sure no message stored in SIMCard.
3) *The system includes the Fixed Wireless Terminal Telephone function, the operation is similar to the cellphone, so we will not descript these operation, in this user manual, we just descript the alarm functions.*
4) *After you power on the control unit, the system will automact to test itself, after the test, you can see the GSM Signal ICON and AC Power Plug ICON and time of it.*

6.1 Main Menu

Press the **Menu** Button,you can see the Menu.

1. SMS	---It's similar to the cellphone SMS;
2. Phone Book	---It's similar to the cellphone Phone Book;
3. Call Log	--- It's similar to the cellphone call log'
4. Phone Setup	--- It's similar to the cellphone Settings;
5. Alarm Setup	--- It's for setup the alarm functions.

6.2 Enter the Alarm Setup Menu

Press **Down** Button, select the **5. Alarm Setup**, then press **OK** button, the system will ask for password, enter the password,the factory deflaut Password is **1111**. then press **OK** to enter the Alarm Setup Menu.

Tips:

When you enter the password, if you press the button then it show letters not numeral, then please press the **Down** *button to change the input method, you can see the relate ICON in the Middle Top of the LCD.*

T	Capital
t	Lowercase
0	Numeral

1. Alarm Phone No.	--- Set 3 telephone numbers to Send SMS alert&Call when system alarm;
2. Power Failure	--- Setup External AC Power failure, need the system to alert you or not;
3. Arm Delay Time	--- Setup the delay time after you armed it, deflaut is 3S. you can set it as 5,10,20,30S.
4. Alert Delay Time	--- Setup the delay time after system triggered, deflaut is 3S. you can set it as 5,7,9,11S;
5. Change PWD	--- Modify the Password, the password should be 0~6 digital numbers;
6. Edit RF Sensors	--- Set the selected RF Sensor as Main or Normal type.and edit the RF Sensor Names.
7. RF Code Query	--- For Our test usage, please don't use it.

Notice:

1) *Alarm Phone No.:When the control unit alarm, will send SMS to all the alarm phone numbers, and call all the alarm phone number once, if the first answered, will not sell.*
2) *Power failure alarm will only send an alert SMS to the 1st alarm phone number if this function is set ON.*
3) *There's no delay for Local Armed Mode.*
4) *In the Edit RF Sensors you can edit the name of the sensors, also you can set it as* **Main** *or* **Normal** *Type.if the system is under Local Armed Mode(Also said At House or Bypass Armed), the sensor set as Main triggered will alarm, the sensor set as Normal will not Alarm. If the system is under Armed Mode, then all RF sensors triggered, will alarm. This is very important to remember the sensor types of the system. This function is very usefu when you at house and need some sensors in working status(E.g.: the sensor installed outter and gas and smoke sensors,etc.) and some sensors indoor not in working status(e.g.: the sensors installed in the living room, bed room,etc.).*

7. Operating Instructions

Tips!

The user can arm/disarm/Local armed by Remote controls,Keyboard, SMS, also, the user can cancel the alarm by Remote Controls,KeyBoard, SMS to Disarm it.

7.1 Arm or Disarm or Local Arm(At House Arm or Bypass Arm) and Emergency Alarm by remote controls

Press the button "🔒" on the remote control then select All Armed or on the Keyboad the Control Unit enters arm status (delay time according to the setting), the LCD ICONS will show 🔒 . under this status, any sensor triggered, the control unit will alarm and the siren will sound 90S,if answered the call, the siren will stop and can listen in the alarm area by phone.

Press the button "🔓" on the remote control on the Keyboad, the Control Unit disarms immediately. the LCD ICONS will show 🔓 . under this status, any sensor triggered, the control unit will not alarm and the siren will not sound.

Press the button "🏠" on the remote control or Press the button "🔒" on the remote control then select Local Armed, the Control Unit enters Local Armed status, the LCD ICONS will show 🏠. in this status, the sensors in the set as Normal Type triggered will not trigger the control unit, but the sensors Set as Main Type triggered will trigger the control unit immediately. Please see the menu of the **Edit RF Sensors**.

Press Emergency button "!" on the **remote control** or the control unit or Press any **Emergency button**.The Control Unit will enter emergency alarm status. The siren will not sound, but will alert the pre-set phone number

immediately.

Tips!

The system support Kit Remote Control recognize function, is our unique echnology, When the Child press his remote control arm button, the Control Unit will send a SMS "I have left the house" or press the disarm button will send "I have gone home" to his father or mother!

The default remote control for child is marked "C" on the back of the remote control. The user can add A and B as Kit Remote control or Set "C" as normal remote control. This function is very useful to monitor somebody arm or disarm the system.

7.2 SMS Commands for Arm/Disarm

The User can Arm/Disarm/Local Arm the system by sending SMS to the Control unit. The SMS Commads are below:

7.2.1 All Armed Mode

xxxxA "xxxx" stands for the password (1-6 digits). Return SMS All Armed Mode activated.	Example 123456A When the Password is 123456

Notice:

All Armed Mode will be activated directly (with no delay) after the Control Unit receive this SMS command.

7.2.2 Local Armed Mode

xxxxL "xxxx" stands for the password (1-6 digits). Return SMS Local Armed Mode activated.	Example 12345L When the Password is 12345

7.2.3 Disarmed Mode

xxxxC "xxxx" stands for the password (1-6 digits). Return SMS System deactivated.	Example 1111C When the Password is 1111

Tips!

The owner can user the SMS Templates function to send out SMS to the first alarm phone number.

In order to benefit the needs of those people like olds or kids who might find it inconvenient to edit SMS, SMS templates are supported by the Control Unit (6 editable templates at most). Please edit the SMS and save it.

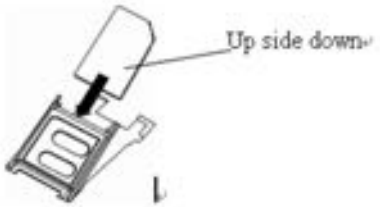
On standby, by pressing the ✉ templates button on the keyboard, there will be 6 templates displayed on the LCD. You could easily send the related SMS to the first alarm phone number by selecting the related number (1-6) on the number keyboard.

8. Installation

Before installing the control unit and sensors and sirens, please help to test the system firstly, including wireless sensor, wired sensor, power supply, gsm signal, etc.

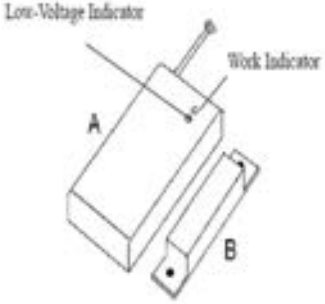
8.1 Insert SIM into Control Unit

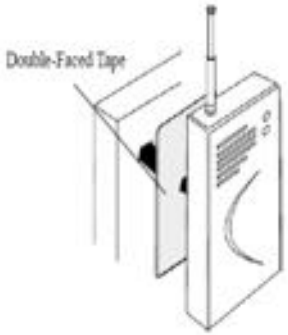
In the backside of the control unit, please install the GSM SIM card  .



8.2 Install the Magnetic door/window sensors

Magnetic door/window sensors signal the Control Unit when the two parts separate by more than between **1.5 to 3.0cm**.



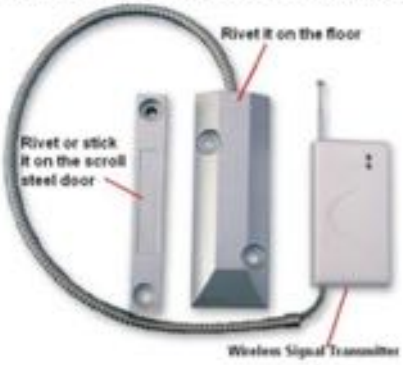


In some circumstances an Infrared beam fence is more appropriate than magnetic sensors. i.e. veranda, picture window balcony, boundary wall e.t.c.

Wired or wireless glass break sensor can also be used (see below)

For a Scrolling Steel Door, a special Wireless Scroll Steel Door magnetic sensor, must be used due to interference of the wireless signal caused by the steel door.

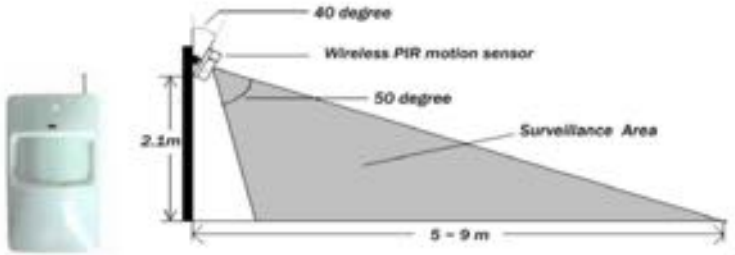
Installation: attach the larger half to the floor and attach (rivet or glue) the smaller half to the scroll steel door. An alarm is triggered when the halves are separated by more than three to 5.00 cm.

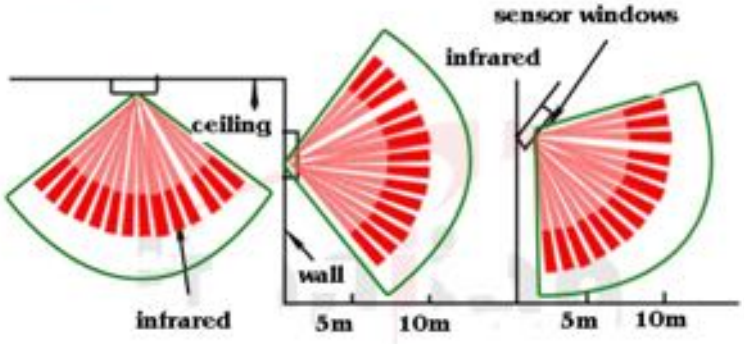


Scroll Steel Door

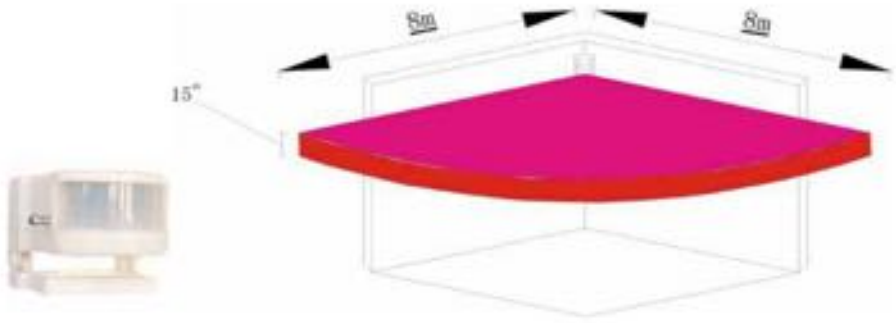
8.3 *Install the wireless PIR Motion Sensor*

The PIR sensor will detect a person since human temperature is different to ambient temperature. When triggered, the PIR will signal the Control Unit. Apply the detection area illustration below when installing.





Wireless curtain sensor, detection area illustration below:



8.4 Install other sensors

For smoke, you can use wireless smoke sensor, for gas leakage detection, you can install gas leakage sensor below



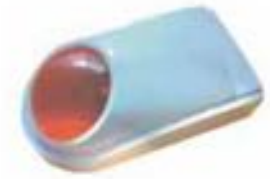
8.5 *Install the Control Unit*

In order to avoid destruction of the Control Unit by intruders, please install it in a concealed location, convenient to the operator.

If applicable, ensure that an uninterruptible AC power outlet is available near the Control Unit. First connect accessories to the Control Unit then the AC adapter.

8.6 *Install Siren*

Connect the Siren to the Control Unit and fix them in appropriate locations .



Strobe Siren ***Siren*** ***Linght Siren***

9. Add Wireless Sensors to the Control Unit

The Wireless sensors in the package box are pre-coded prior to shipping. The Max. RF sensors is 16, if you need add more then you can set the wireless sensor with the same jumper. Add additional wireless sensors to the control units, please help to see below:

9.1 Prepare the RF Sensors

1) Prepare the RF sensors, Open the back cover of the Wireless sensor carefully;
2) Locate the IC boards black jumpers, labelled A0-A7 and D0-D3.
3) The A0-A7 , 3X8 PIN connectors,are the **Wireless Address bits** code area, and the D0-D3 are 3X4 PIN connectors, are **Wireless data bits** code area;
4) Also, you can see the H, N, and L letters besides the 3X8 PIN and 3X4 PIN connectors, like below picture;
5) Connect L and N is means 0, and connect H and N is means 1, connect neither L and N nor H and N is means 2 ;
6) Make sure the A0~A7 is different, and set the D0~D3 to different value to distinguish each defense area. If the value of A0~A7 and D0~D3 are the same, the system will treat them as only one defense area.

9.2 Press *8566# on standby mode to enter the adding menu.

9.3 Enter the RF Sensor Adding Menu.

Select the Defense Area, press Ok, Select the number the press Ok

to edit the RF Sensor Name,finished it then press OK to select the Main Type Or Normal Type, then following the instruction: **1.Turn On the Device**, means trigger the RF sensor,the system will show a code, then **press Up Key** in the Keyboard. the system will ask you repeat the operation, so please trigger RF sensor again, when you see the Code, then press the Up Button on the Keyboard, Press Ok to finish. Repeat this operation to add other wireless sensors.

Notice:

1. *One time can add only 1 wireless sensor;*
2. *The Name of the RF sensor should be less than 11 letters.*

9.4 Add Remote Contols to the Control unit:

a) *Press ***8566#** on standby mode to enter the adding menu.*

b) *Select **2. Remote Key**, then press **Ok** button,*

c) After the above operation, the unit will show **A:VVVV**

B:

C:

D:

E:

d) Select the D: then press **ok** button, the system ask you to activate the remote key, please **press any button** on the remote key, then **press up key**, the system will ask you repeat the operation,[press any button on the remote key, then press up key,] then the system will ask you to set it as childkey or not, select it then press Ok button.Then the system shows OK.

e) Please repeat the operation to add the fiveth remote key.

Notice:

1) VVVV plus C indicates that the remote is configured as Kid's Remote.

9.5 Delete all wireless sensors and remote controls.

Go back to the menu,then select the delete all command, select it then the system will alert *Are You Sure* → Press OK to delete all the RF setups of the defense areas and the remotes.

10. Technical specifications of Control Unit

Rated Voltage: 7.5VDC 1.5A

Working temperature: -10℃ +60℃

Storage temperature: -20℃ +60℃

Relative humidity: 10-90%, No condensation

Work frequency: GSM900,1800,1900Mhz

Communication protocol: GSM PHASE 2/2+ (include data service)

Wireless sensor receiving frequency: 433 MHz

Wireless sensor permission quantity: 16Pcs

Effective distance wireless of remote control: 100 m

Battery: Built-in lithium-ion battery: 2500mAh 3.7V

Standby time Approx.12hours (depending on the network condition)

Net Weight: 1.82Kg

11. Important information

1) Please read the User Manual carefully before you install the Control Unit and set the Control Unit.
2) Do not install the system in close vicinity with objects that generate strong interference, such as TV set and computer.
3) Install the system in a hidden place.
4) Avoid getting water into the Control Unit.
5) Have a secure connection to the main power supply.
6) This product was designed for the indoor use.
7) Opening the control unit cover will void the warranty.
8) More informations will be avaible of the S3524A, we will not inform you again after we upgraded,please check with your dealers.