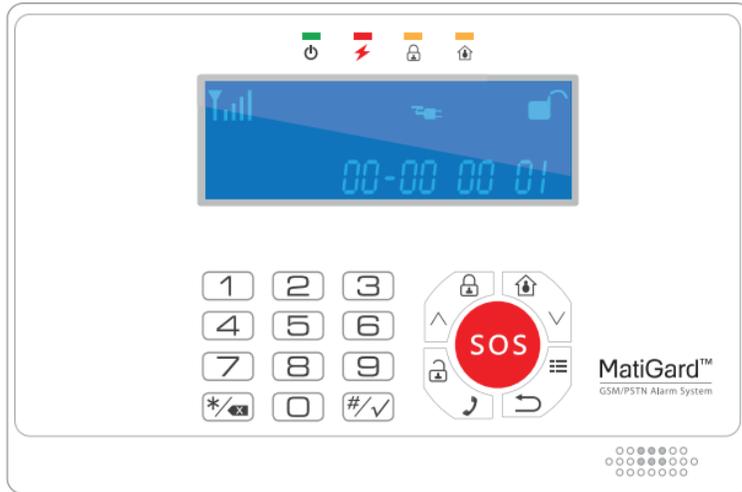


# MatiGard™ User Guide





# Menu

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## Professional & Safety

- With Magictrl™, you can control MatiGard™ anytime & anywhere via your smartphone, even without data network.
- MatiGard™ is designed for safety from hardware. All commands are encrypted with private protocols which are protected by IPR laws
- All accesses to MatiGard™ needs to pass the identity authorization. Only the administrators can operate system setting.
- Customizable zones with anti-false algorithms, prevent the false alarm due to the pets or other animal, etc.
- With arming timer, 6 automatic arming can be operated everyday.
- With motoring, the authorized users can listen to the surrounding voices

## Easy & Nice

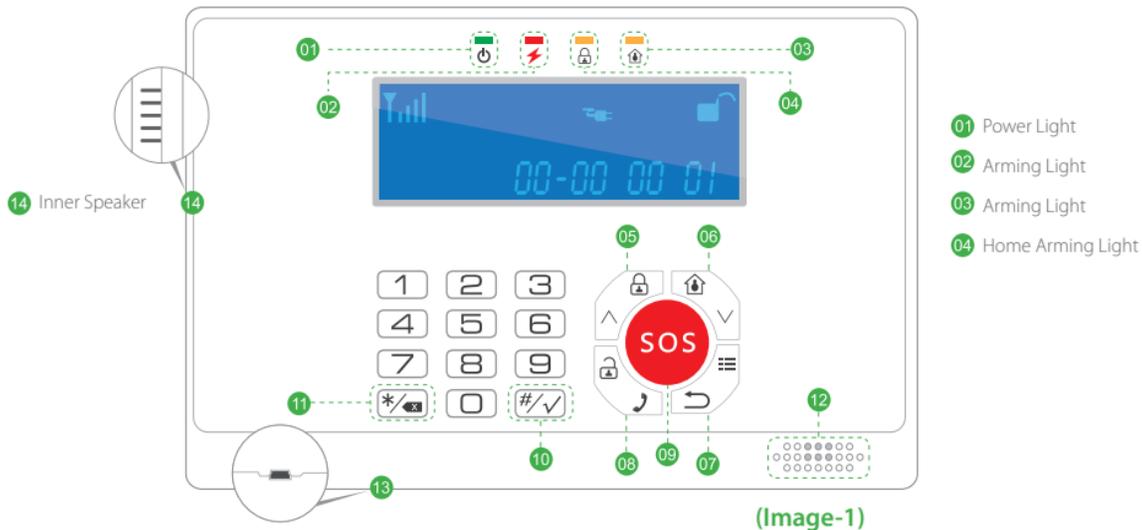
- Easy way to pair your sensors to MatiGard™, up to 99 sensors;
- Identify your remote controllers, users can receive SMS to tell who is pressing down and what the button is.
- Customizable zone name and zone notifications SMS. Telling where it is when something happens in your zones;
- SimCard balance checking and SMS forwarding. Users can check the account of MatiGard™ anytime, and forward the SMS from particular number to your smartphone;

- SMS notify when AC Power OFF;
- SMS notify when arm/disarm successes;
- Wide LCD display for users to set and query easily;
- Inner speaker's volume can be adjusted from 1-4

## Powerful

- With high performance chargeable battery & LPB technology, MatiGard™ can last more than 24 hours when AC Power OFF;
- Dual network for GSM & PSTN. (Only in GP model);
- Support more than 16 SMS programable wireless zone
- With electronic switch, users can using that to control light or TV, air conditioner remotely via Magictrl™;
- Save more than 70 logs & events.(Dcc can query all, Magictrl™ can query the latest 12 of them);
- Customizable alarm voice. After recording, it will be played on the emergency call triggered by alarm;
- Inform any error in PSTN like disconnect or signal error. (Only in GP model)

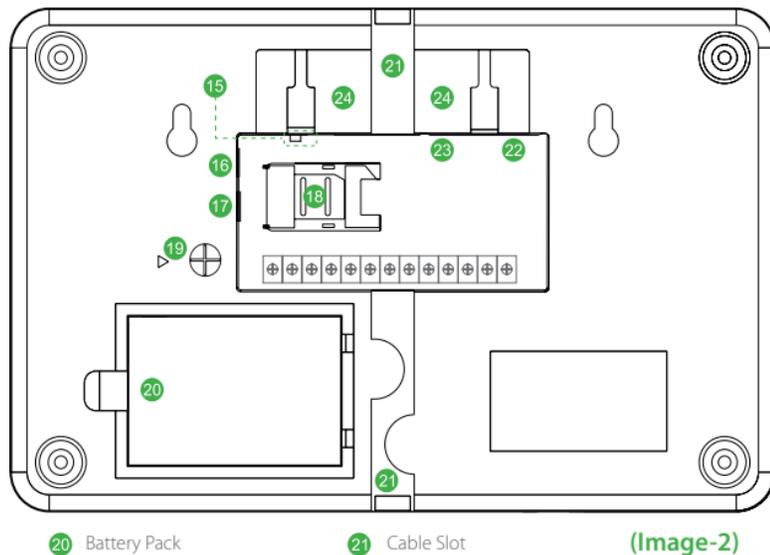
## Front View



- 01 Power Light
- 02 Arming Light
- 03 Arming Light
- 04 Home Arming Light

- 05 Away arm
- 06 Home Arm
- 07 Menu
- 08 Disarm
- 09 SOS
- 10 # or CANCEL (in editing mode)
- 11 \* or DELETE (in editing mode)
- 12 Microphone, monitor surrounding sounds
- 13 USB outlet

## Back View



- 15 Power Switch
- 16 Power Outlet
- 17 Speaker Outlet
- 18 PSTN IN
- 19 Sim Card Slot
- 22 PSTN OUT
- 23 Anti-moving Switch
- 24 Fixed Support



## How to check system status?

### 1. By Icons On LCD Display

	Normal ON: Sim Card Detected
	Flash: Sim Card Error
	GSM Signal Strength
	Flashing when logs unread exists.
	Battery Life
	electric quantity for back up battery
	System Alarming

### 2. By TOP Lights

Alarm Now	2-Alarm Light ON
Alarmed	2-Alarm Light Flash Per Second
Home Arming	4-Home Arm Light ON
Arming	3-Arm Light ON
Delay Arming	3-Arm Light Flash Per Second
Disarmed	Arm Light OFF

## Normal Items

### Arming Status

There are 4 arming status, which can be switched by Magictrl™, remote controllers or panel.



ARM



HOME ARM



DISARM



SOS

#### • ARM

ARM means all sensors are working on detecting anything unusual. System will alarm when any sensor get triggered.

Turn to ARM by:

1. Press ARM button in Magictrl.
2. Press ARM button in remote controller.
3. Press ARM button in panel

TIPS: Press and hold the ARM button in panel can use delay arm function temporary.

\*Delay Arm means the system will wait a few seconds before turn into arm status. Allows you to leave the house without trigger any alarm. Once it has been set, all arm button will work on delay arm mode

# Read Before Using

## • HOME ARM

HOME ARM means MatiGard™ will ignore some zones' trigger signals while keeping sensitive for some others. It's especially useful when some users want not to be disturbed at home by shutdown the living areas' sensors but leaving those sensors surrounding the house working. When using HOME ARM, those sensors wants to shutdown when at home need their zones to be set in SILENT(AT HOME) mode

Turn to HOME ARM by:

1. Press HOME ARM button in Magictrl™.
2. Press HOME ARM button in remote controller.
3. Press and hold the HOME ARM button in panel

## • DISARM

DISARM means cancel arm or home arm status. After that, MatiGard™ will not alarm, even the zones get triggered(except those on URGENT mode). Pressing SOS will trigger alarm even in DISARM.

1. Press DISARM in Matictrl™
2. Press DISARM in remote controller
3. Press administrator password + DISARM button on panel

## • SOS

SOS means alarm immediately.

## Zone And Zone Mode

Zone is the working area of 1 or more sensors. In MatiGard™, one zone is represented by ZONE 01,02,etc. For your convenience, please assign zones by your room sections, like ZONE 01 is assigned to living room and ZONE 02 is assigned to bedroom.

One MatiGard™ owned more than 30 programable wireless zones. Each zone can be paired to 1 or more sensors. Users can choose zone numbers freely during the pairing process.

Each zone can be set to different zone modes. Which stands for different alarm strategies. By using zone modes, MatiGard™ can provide security services more user-friendly.

- **IMMEDIATE:** Alarm when in ARM or HOME ARM status, but not in DISARM status when sensors get triggered.
- **URGENT:** Alarm when in ARM, HOME ARM or DISARM once the sensors get triggered. Usually use when zone pairs to smoke detector, gas leaking detector, SOS button.
- **SILENT(AT HOME):** Alarm when in ARM status and be disable when in HOME ARM or DISARM status.
- **DOOR BELL:** Never alarm, be specific to pairing to wireless doorbell.

(Zone must in one of those 4 modes above)

## Read Before Using

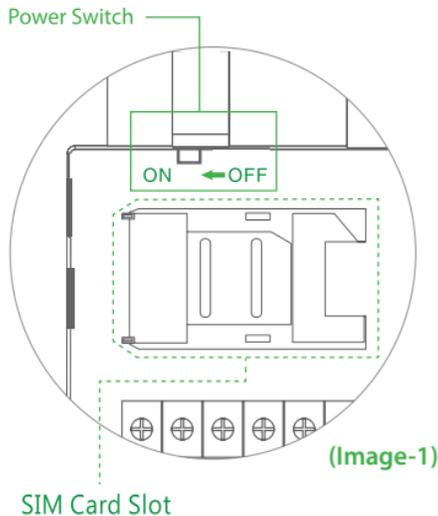
- **INFORMING:** Sound DINGDONG when in DISARM status if sensors get triggered. Usually use to pair to door sensor.
- **ANTI-FALSE:** Alarm only when 2 or more sensors in the same zone get triggered when in ARM or HOME ARM status. Usually using it to pair to PIR sensor. By using ANTI-FALSE, we can reduce false alarm caused by temperature or environment.

(Zone can be add in 2 more modes above)

We ships MatiGard™ with preset zone modes. ZONE 01 with door detector is in IMMEDIATE mode. ZONE 02 and ZONE 03 pair to 2 PIR sensors are in SILENT(AT HOME) mode.

You can change zone mode in Magictrl™.

For your convenient, please install MatiGard™ properly. Usually, setting in the center of the guarding place would be helpful to receive all the RF signals. Keep away from mega metal objects or those appliances with high frequency interference, also the reinforced concrete wall or the fire doors.



## 1. Sim Card Installation

Turn to the back side and insert the sim card into the slot (-image1).

\*Your sim card should be available for MatiGard™ to send and receive messages via SMS.

## 2. Power ON

Power outlet is next to the SIM slot, connect it to the power supply with the cable. Turn on MatiGard™(-image1), after the beeping sound the LCD display will show characters like '500ms'.

Then the system will check sim card status. It will finish initialization when date and time are shown on the LCD display(-image2). Now you can move to the next.



(Image-2)

### 3. Record Voice Message



### 4. Make a call via MatiGard™

On MatiGard™ panel, press  for 2 sec, dial your cellphone No. , press  to make a call.

Press  again to finish the phone call.

### 5. When alarm goes off

When alarm is triggered, MatiGard™ will run siren and SMS to the pointed contacts, after that, it will make the emergency call to all the contacts recurrently.

When one contact is busy or unable to connected, MatiGard™ will keep calling the next until all contacts are called

3 times or some contacts answer the phone and stop this process.

When the emergency call are answered, MatiGard™ will play the voice message. Users can press down the buttons below to operate the system.

[\*\*]: Press \*\* to monitor

[##]: Press ## to cancel SOS

[88]: Press 88 to listen again

Hang up to call the next emergency contact

\*Please remember to press ## to stop emergency call when you trigger alarm for testing MatiGard™.

## 6. Factory Reset

Press 951753082# on panel to reset. All password or settings will be restored to factory default settings. During the process, all status lights will be flashing.

Magictrl™ is a powerful and convenience smartphone app for using and managing MatiGard™.

Download it from <http://bin.bz/m> Now we have iOS & Android versions.

## Initialization

Initialize when first time using or adding new device.

### *Tips: How to find my number?*

On MatiGard™ panel, press  for 2 sec, dial your cellphone No. , press , wait for calling in and check the No.

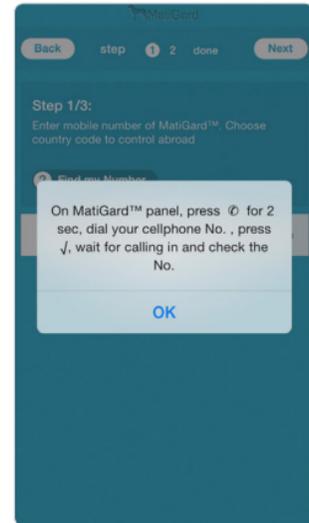


image1: Country Code & Sim Card Number



image2: Password for MatiGuard™

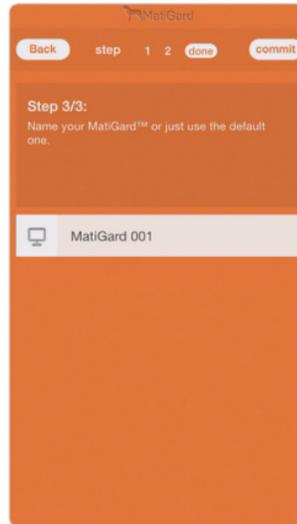
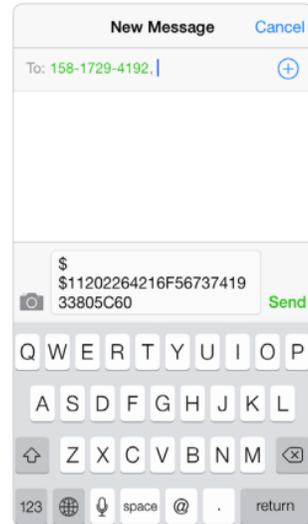


image3: Name & Validation



**Tips:** Different password means different identities such as administrator or user. The user interfaces and functions are different from each other. Administrator's default password is 123456 and user's is 1234. Both can be modified by administrator.

\$  
\$11202264216F56737419  
33805C60

Auth Code: 4801. Please  
fill these digits in Magictrl.

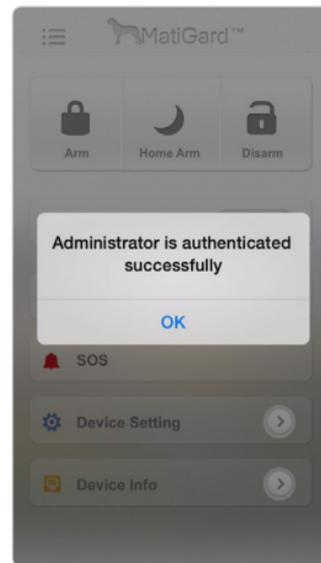
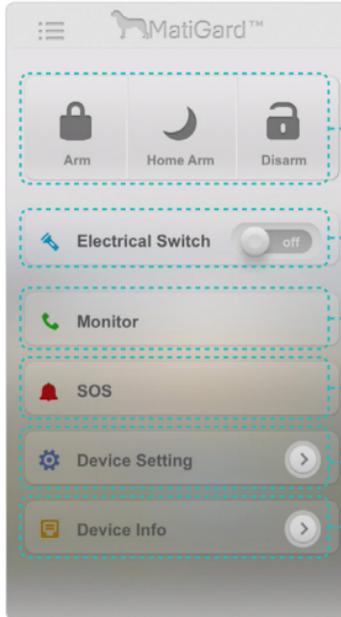


image4: Auth Code & Login

## Operations (as administrator)



 **Arm**  **Disarm**  **Home Arm**

*The definition of ARM/DISARM/HOME ARM is in Page 11.*

 **Electronic Switch**

*Manage devices connect to the A1-A3 slot in the external plugin board.*

 **Monitor** Call MagiGuard™ and monitor the surrounding sounds.

*\* Please follow the voice message, some devices need password before monitoring.*

 **SOS**

*In emergency case, all contacts will be called in order and some will receive SMS alarm.*

 **Device Setting**

*Setting and managing the device*

 **Device Info**

*Check device status*

## Device Setting (as administrator)

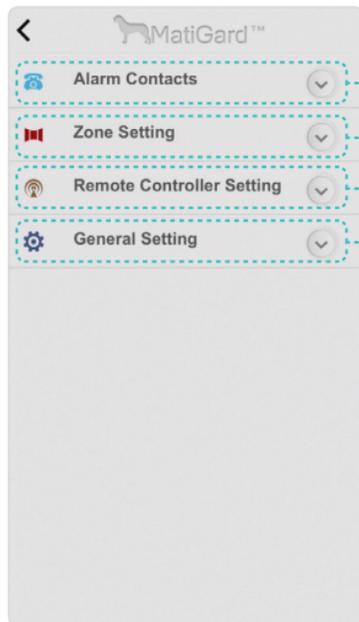


image1 Device Setting

- **Alarm Contacts**

—Up to 6 contacts. Get called and SMS(optional) in emergency.

- **Zone Setting**

—Up to 15 zones with customized name, SMS and zone mode.

- **Remote Controller Setting**

—Up to 10 controllers with customized name and ARM/DISARM SMS.

- **General Setting**

—With Arming Timer, Delay Arming, Delay Alarm, SMS Forward and Account Management, etc.

In this section, most of the operations need to be save and send SMS commands after setting.

You will receive a SMS reply from MatiGard™ like 'Success! Commands are accepted' when the setting is in effect.

## Alarm Contacts

Reject SMS by switch OFF the 'Receive SMS'

Note: SMS notifications are divided into alarm SMS and System Notification. Only the first contact in the list will receive the system notifications, which include events like AC Power OFF, SMS Forward, MatiGard™ ARM/DISARM and Remote Controller ARM/DISARM. The latest two can be chosen not to be received.

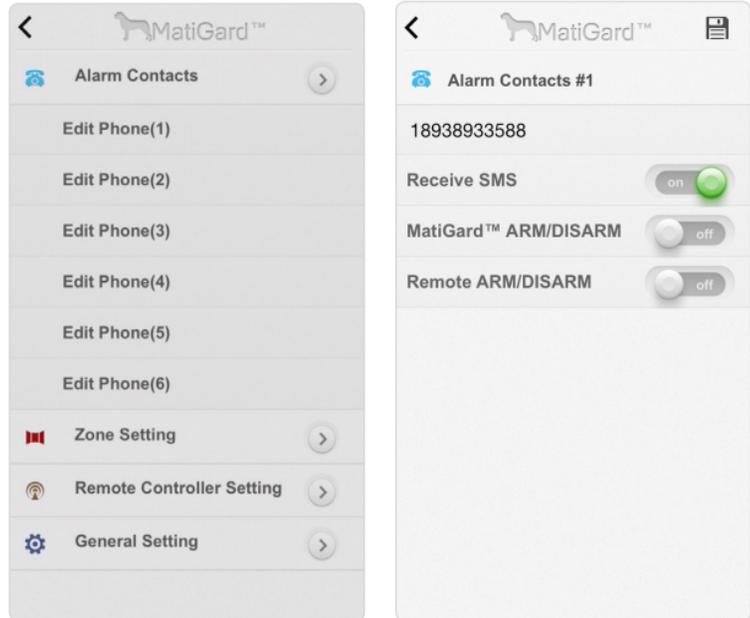
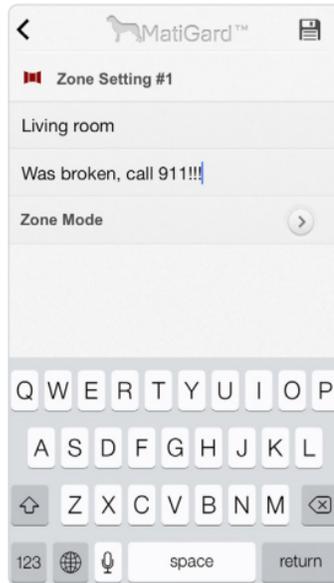


image1 Alarm Contact Setting

## Zone Setting

Customized name for the zone, like  
bedroom, living room, etc..



Living room: Was broken,  
call 911!!!

image1 Zone Setting

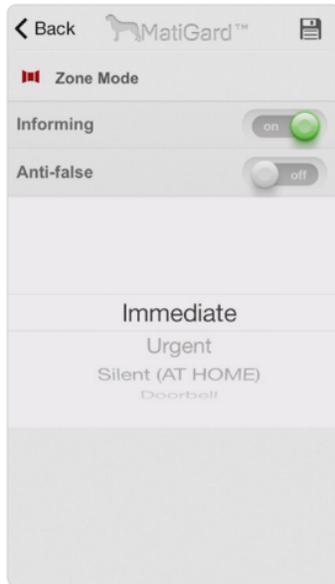


image2 Zone Mode

Zone modes are the alarm strategies for one zone, check the definition in Page 13

Optional:

**Informing** —Trigger BEEP/DingDong when disarmed

**Anti-false**—Alarm by 2 or more sensors

Choose one of below:

**Immediate** —Active when arming

**Urgent**—Active even when disarmed

**Silent**—Silent when home arming

**Doorbell** —Sound DingDong, not alarm

## Remote Controller Setting

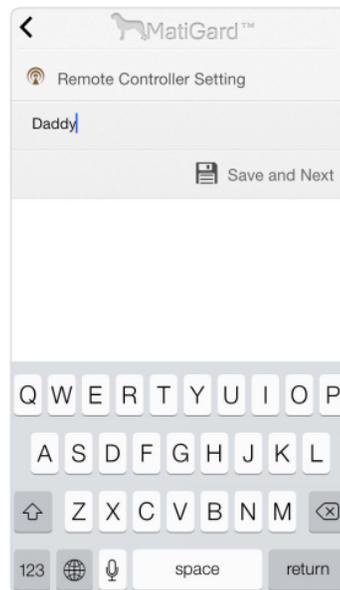
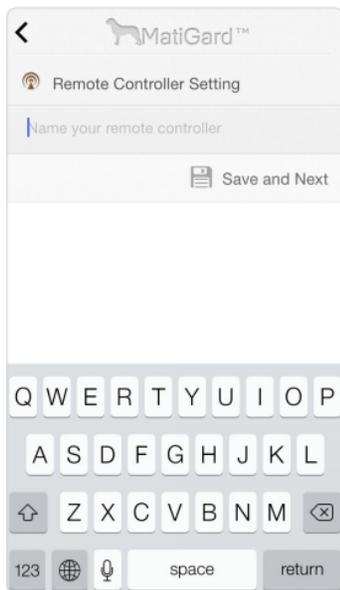


image1-1 【Custom Name】

Name the controller, like 'Papa', 'Mama', 'Kids', 'Nanny', etc

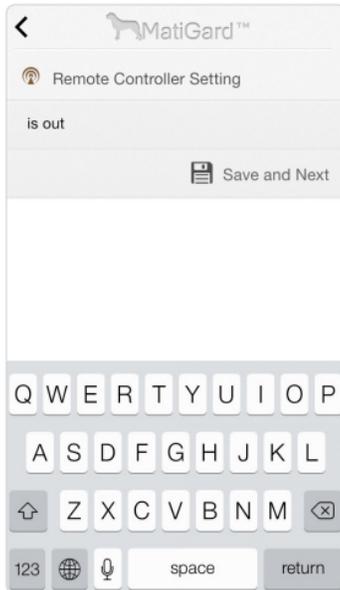


image1-2 【Arm SMS】

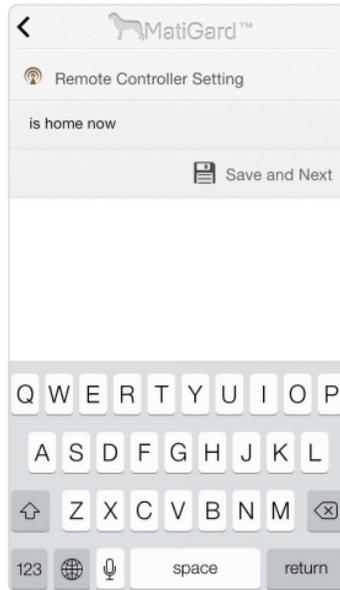


image1-3 【Disarm SMS】

Set ARM/DISARM messages for controllers, like ( Out for work ), ( Back from school ) , etc.

Daddy: is out

Daddy: is home now

image1-4 【SMS Demo】

## General Setting - Arming Timer



image1 【Setting Timer】

With 6 timers for automatic arming by time.

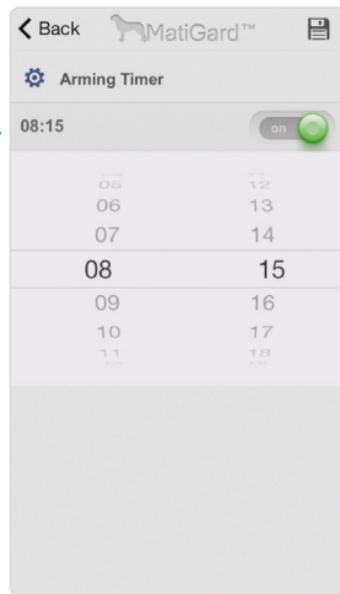


image2

Justify arming time here.

## Delay Arming

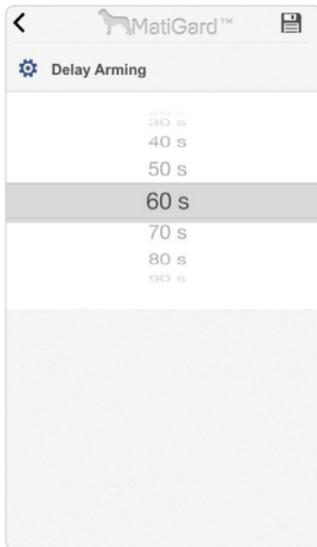


image1 【Setting Delay Arming】

Default time is 0 sec, means immediately active when receive arming command. Delay time is max to 90 sec.  
Usually used in preventing alarm before people can walk off the zone after arming.

## Delay Alarm



image1 【Setting Delay Alarm】

Default time is 0, means alarm immediately when sensor get triggered.  
Delay time is max to 90 sec.  
Usually used for those who lost their remote controller or phone to walk in home and disarm MagiGard™ in panel before the alarm goes off.

## Siren Time

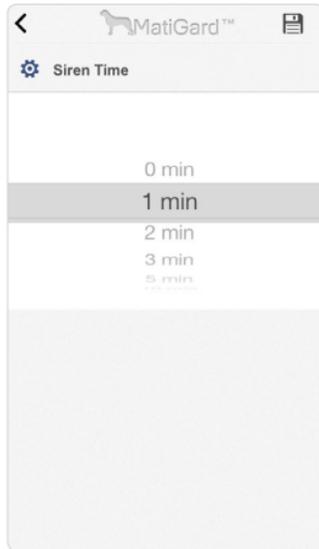


image1 【Setting Siren Time】

Default time is 1 min, means siren sounds for 1min when emergency. Max time is 30 mins.

## Speaker Volume



image1 【Setting Volume】

Minimum volume is 1, up to 4.

## Change Administrator Password

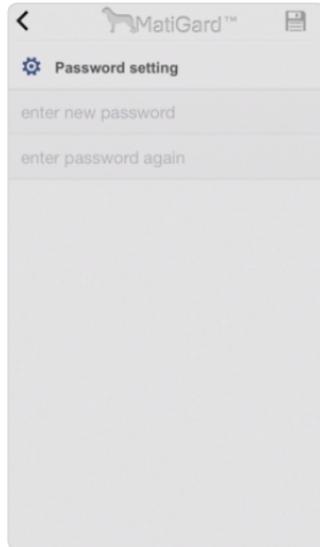


image1 【Setting Password】

Change the password for administrator and save it in MagiGard™.  
Keep it to your own and use it in initialization.

## Change User Password

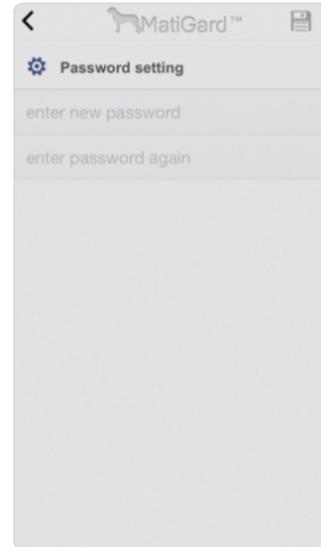


image1 【Setting User Passwords】

Change the password for user and save it in MagiGard™. Please  
distribute it to other members in family.

## SMS Forward

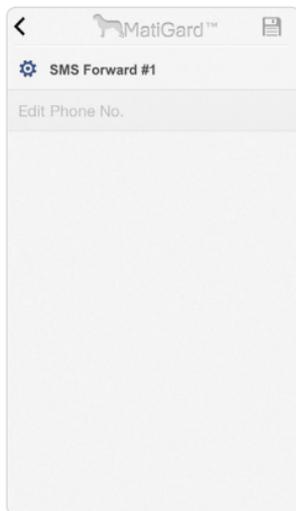
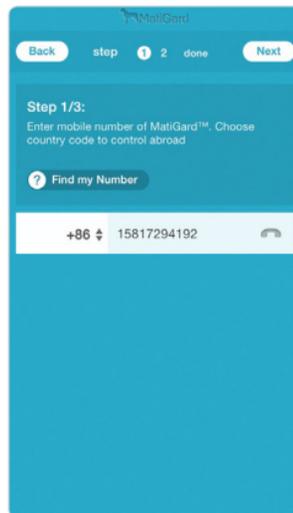


image1 【Forward Setting】

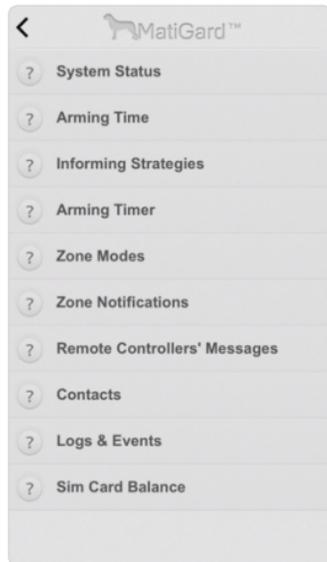
MatiGard™ will forward all the SMS from this number to the first one in the Alarm Contacts.

## Re-Initialization



Do initialization again, click back when misoperated.

## Device Info



Brief introducing only.

**System Status:** Query about time, arming state, speaker volume, siren time, etc.

**Arming Time:** Query about the gap between setting and working of arming and alarming.

**Informing Strategies:** Query about the default contact of MagiGard™ and the types of SMS it'll receive.

**Arming Timer:** Query about the schedule of automatic arming.

**Zone Modes:** Query about the zone mode of the pointed zone.

**Zone Notifications:** Query about the notification SMS of the pointed zone.

**Remote Controller's Message:** Query about the ARM/DISARM SMS of the pointed controller.

**Contacts:** List all alarm contacts, those with \* means allowing to receive alarm SMS.

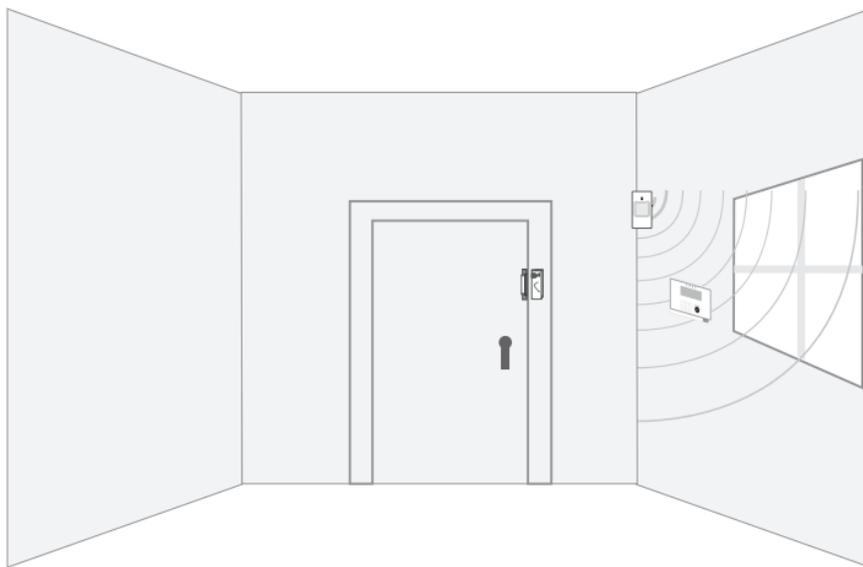
**Logs & Events:** List the latest 12 logs of MagiGard™, contains all the system logs (power status, etc) and ARM/DISARM events.

**Sim Card Balance:** Fill in the carrier's service number and checking code, MagiGard™ will submit them to the carrier via SMS and forward the reply SMS to you.

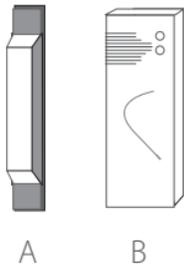
## Installing & Using The Accessories

MatiGard™ is shipping with 2 remote controllers, 2 PIR sensors and 1 door/window gap sensor. We've already pair them to different zones for the most common apartment which contains 2 bedroom and 1 door. You can easily add more sensors or remote controllers following the intro in this chapter.

We recommend you to setup sensors as the picture shown below.



## Door/Window Gap Sensor Installation[demo by door]



This sensor consists of 2 parts, the transmitter A and the magnet B. Battery is in transmitter.



### Process:

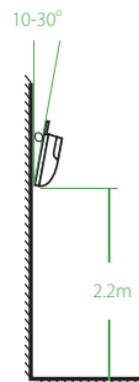
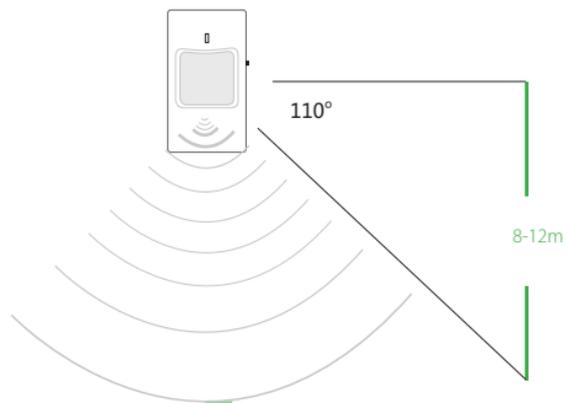
1. Clean the installation part of the door and frame. Stick double sided tape on the back of A & B
  2. Align A & B, make sure the indicator lights of A are next to B. Put A to the door frame and B to the door. The distance between them should be less than 10mm.
  3. After installation, the indicator light 1 should be flashing for 1 sec when you push the door.
  4. Reinforce the sensor by using screws (for wooden doors only, A should be opened for tightening screw)
- Pairing is required after installation, please check Page XX for more details

### Replace Battery:

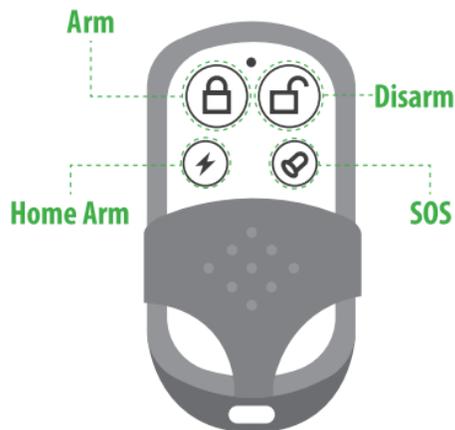
When the indicator light 2 of A is continue shining, means the battery needs replacement.

1. Open the transmitter A and replace the new 23A 12V battery.
2. Push the door to see if the indicator light 1 is on. If the sensor doesn't work, check if the battery is putting reversely or contact your reseller.

## PIR Sensor Installation



## Remote Controller Overview



Press button to change the system arming status.

### Replace Battery:

If no indicate light on when pressing button, you should change the battery. Please loose 3 screws in the back to remove the cover, then change the battery.

## The Pairing, Deleting And Checking For Sensors & Remote Controllers

Pairing means to make connection between accessories and MatiGard™.

One sensor can only pair to one zone, while one zone can pair with amount of sensors.

One MatiGard™ can pair with amount of remote controllers, and vice versa.

Door gap sensor is in zone 01. 2 PIR sensors are in zone 02 & 03. 2 remote controllers are paired with name RC01 & 02.

New sensor or remote controller needs pairing before working.

### • Sensor Pairing

Press 1# on the panel, wait for the BEEP sound, press zone number to pair to, press # again

Turn on and trigger the sensor, wait for the voice prompts.

### • Sensor Deleting

Press 1\* on the panel, wait for the BEEP sound to delete all sensors.

### • Sensor Checking

Press 3# on the panel, wait for the BEEP sound

Turn on and trigger the sensor, the LCD display should show zone number and serial number of the sensor. If there's no zone number on the display, you need to re-pair the sensor.

*Tips: If the pairing fails or the sensor pairs to a wrong zone, you can re-pair it again. MatiGard™ only keep the latest pairing state.*

### • Controller Pairing

Press 2# on the panel, wait for the BEEP sound

Press any button on the remote controller, wait for the voice prompts.

### • Controller Deleting

• Press 2\* on the panel, wait for the BEEP sound to delete all controllers.

### • Controller Checking

• Press 3# on the panel, wait for the BEEP sound

• Press any button on the remote controller, the LCD display should show like RC XX and serial number of the sensor. If there's no RC XX on the display, you need to re-pair the controller.

## • Control Panel

Standby current: 20mA

Alarm current:  $\leq 500\text{mA}$

Power supply: 12V DC

Working temperature:  $-10^{\circ}\text{C} \sim +85^{\circ}\text{C}$

GSM frequency : 850/900/1800/1900MHz quad band Receiving code: ASK

Transmission Frequency ( RF): 315/433MHz $\pm 0.5\text{MHz}$  Transmission distance: 100 M

wireless detectors: 99

wire detectors: 7

## • Door Contact

Power Supply: DC12V (inner 12V battery) Standby Current:  $\leq 20\ \mu\text{A}$

Transmission Current:  $\leq 15\text{mA}$

Transmission Frequency: 315/433MHz $\pm 0.5\text{MHz}$  Transmission Distance: No obstacle 80m Internal Distance: 15 mm

Working Condition: Temperature  $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$  Humidity:  $\leq 90\% \text{ rh}$

## • PIR Detector

Power Supply: DC9V (inner 9V battery)

Standby Current:  $\leq 100\ \mu\text{A}$

Transmission Current:  $\leq 20\text{mA}$

Transmission Frequency: 315/433MHz $\pm 0.5\text{MHz}$  Transmission Distance:

No obstacle 80m Detective Speed: 0.3 - 3m/s

Detective Distance: 5 - 12m

Detective Range: Horizontal  $110^{\circ}$  Vertical  $60^{\circ}$

Working Condition: Temperature  $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$

Humidity:  $\leq 90\ \text{rh}$

## • Remote Controls

Power Supply: DC=12V $\sim 8.4$ (Inside A23 DC=12V dry battery) Standby Current: 0

Transmission Current:  $\leq 15\ \text{mA}$

Transmission Frequency:  $f=433.92\pm 0.2\ \text{MHz}$

Transmission Speed:  $T \leq 1\ \text{second}$

Transmission Distance: Without obstacle 80m

Working Condition: Temperature  $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$

Humidity:  $\leq 90\ \text{rh}$

## Appendix II: FAQ

Symptoms	Causes	Remedies
Cannot receive alarm call	<ol style="list-style-type: none"><li>1.Didn't arm the system;</li><li>2.Less than 30 seconds after arming.</li><li>3.Setup wrong phone number;</li><li>4.The two parts of door contact is installed too far from each other.</li><li>5.Didn't activate PIR or other accessories;</li><li>6.Didn't pair correctly</li></ol>	<ol style="list-style-type: none"><li>1.Make arming;</li><li>2.Operate after 30 seconds;</li><li>3.Setup the number again according to the manual;</li><li>4.Adjust the installation place of door contact;</li><li>5.Activate PIR detector;</li><li>6. Pair again</li></ol>
The distance of remotely control is too short and the indicator light is not strong enough	<ol style="list-style-type: none"><li>1.The battery of remote controls got rusted;</li><li>2. Lowbattery</li></ol>	<ol style="list-style-type: none"><li>1.Clean the rust;</li><li>2. Replace the battery with a new one</li></ol>
Indicator light of door contact or PIR detector is always on.	Low battery	Replace the battery with a new one
Make alarm call very slowly	Too many alarm contacts	Set it again according to the operation manual
The control panel cannot receive RF signals	Didn't pair them correctly	Please pair control panel with other accessories again





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