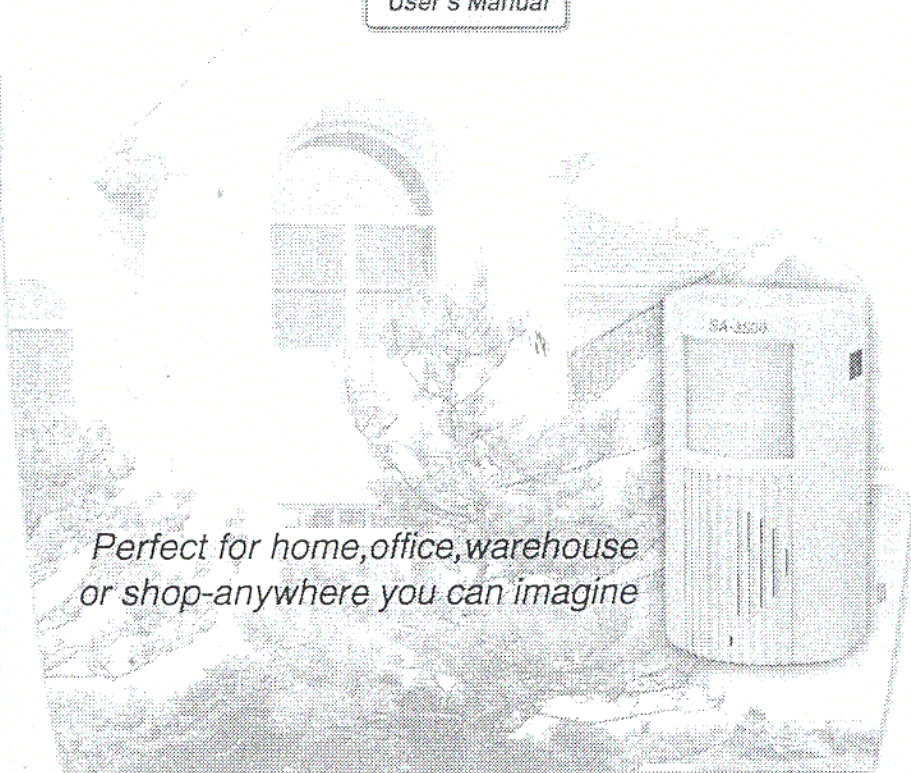


# SA-3500

*User's Manual*

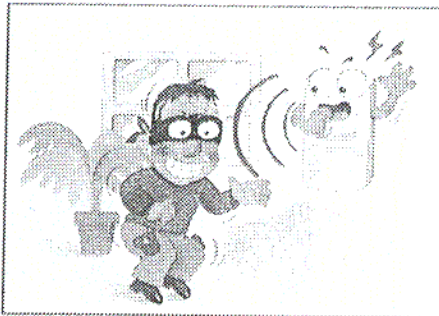


*Perfect for home, office, warehouse  
or shop-anywhere you can imagine*

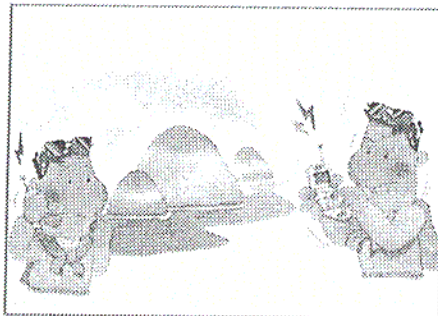
**SK** Global

SK Global  
FCC ID: O8BSA-3500  
JOB #: 300ZK0  
EXHIBIT #: 3A

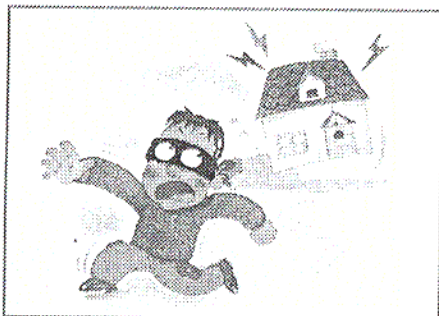
## How it operates



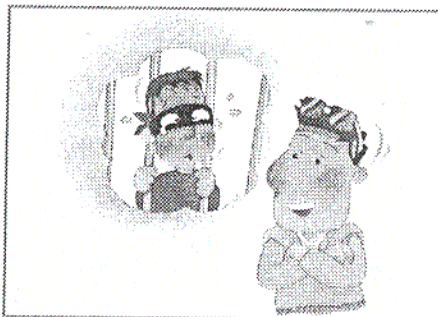
1. During operation, SA-3500 uses PIR and magnetic sensors to detect intrusion.



2. When any moving objects are detected, SA-3500 immediately dials your mobile phone, pager or telephone; you can also hear actual sound from the scene.

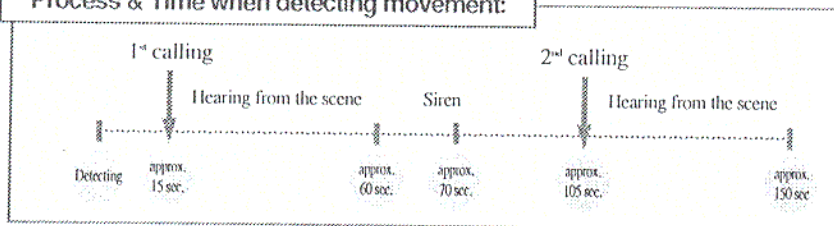


3. Powerful siren, which is activated after the first notification, is enough to drive any intruder away.



4. SA-3500 offers the best protection for both the office and home.

### Process & Time when detecting movement:



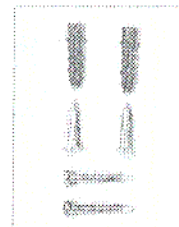
## Check List



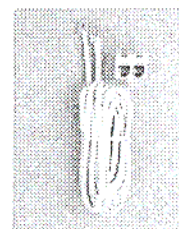
The main unit



Remote control



Screws



Telephone cord



Both-sided tapes



Bracket



Magnetic sensors



Magnetic line

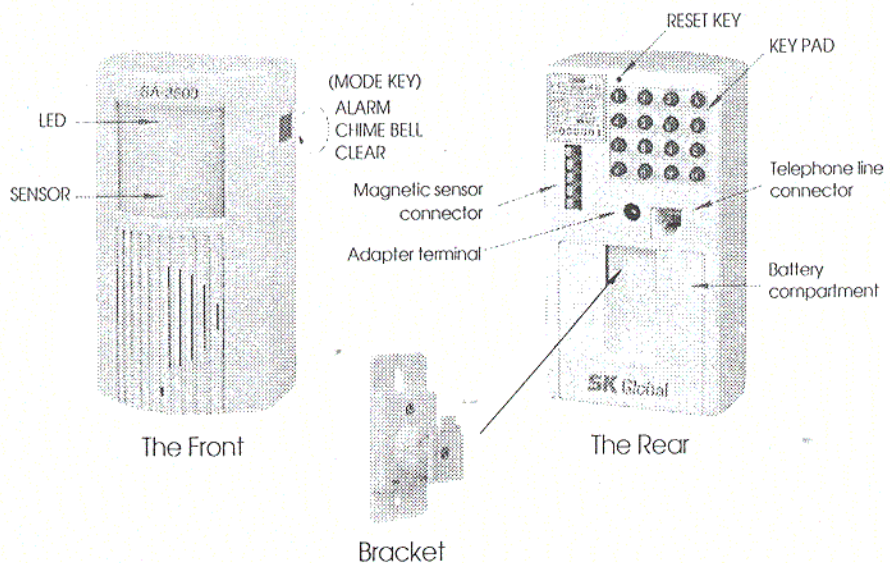


Notification sticker - 3EA

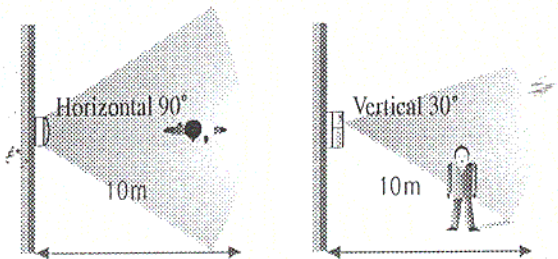
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 JOB #: 300ZK0  
 EXHIBIT #: 3B



## Exterior Label



## Detecting Range



### ■ Mode Key [Alarm - Chime Bell - Clear mode]

- Alarm Mode : Tone sound occurs four times [ - - - - ]
- Chime Bell Mode : Ding-dong sound
- Clear Mode : Tone sound



## Power Supply

### ● Power Source

- AC/DC 9V/600mA Adapter (not included) / Back-up battery

### □ Adapter

- The standard adapter is 600mA / 9V,  $\oplus \ominus$
- When using adapter and batteries at the same time, SA-3500 operates with the power from the adapter. In case of power failure, battery power is engaged automatically.
- LED lamp inside the sensor window displays red for the power on and flickers for detecting movement.

### □ Battery (Back-up)

- 9V, 1ea
- Battery is for back up only. [Do not use this as a main power source]
- Battery works for 4 hours when the main power is off.

## Specifications

Size/Weight : 70mm x 128mm x 49.5mm / 230g

Main Detecting Sensor : PIR sensor (Pyroelectric Infrared Ray Sensor)

Sub Detecting Sensor : magnetic sensor (Door/Window open)

Detecting angle : Horizontal : 90° , Vertical : 30°

Detecting Range : 10M

Siren : 90dB for 10 seconds

Number of Extensible Sensors : Up to 15 (including external siren)

Programmable Phone Numbers : Up to 5 numbers

Power : AC/DC Adapter (9V, 600mA), Back-up battery (9V, 1EA)

Operating Temperature : - 10° ~ 40°C

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## How to Install

### ● Before installing

- Set the unit into "Clear" mode

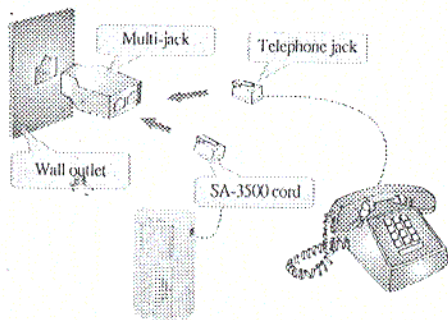
### ● Installation

Picture 1

- ① Place the bracket on the wall
- ② Slide the unit into the bracket or place the unit on the desk / table for effective detection
- ③ Adjust angle and direction for effective detection



Picture 2



- After setting the unit, connect SA-3500 cord and telephone jack to the multi-jack. Then plug it into the wall outlet.

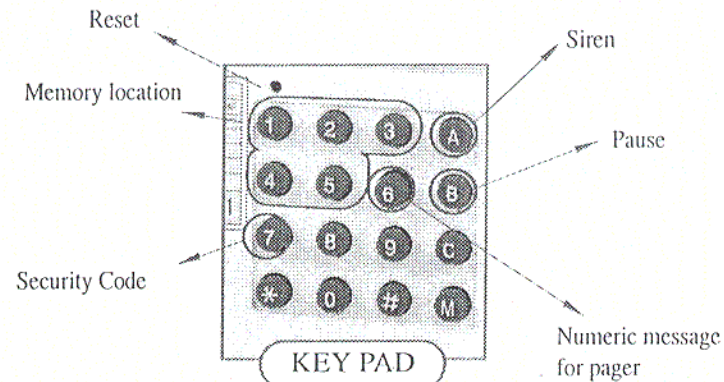
- Operation will begin in 30 seconds after setting the unit into "Alarm" mode.

- On the wall : Position the unit over 1.5m high from the floor
- Place the unit on the front part of desk or table to ensure detection range

## How to Input the numbers

### Key pad label

Picture 3



### Programming

#### 1. Telephone / Mobile Phone

**M** + **1** ~ **5** + **telephone number** + **M**  
(memory location)

e.g.

- Input the 1<sup>st</sup> number

**M** + **1** + **telephone number** + **M**

- Input the 2<sup>nd</sup> number

**M** + **2** + **telephone number** + **M**

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## 2. Pager

- Use key **6** to input numeric message for pager

e.g. \_\_\_\_\_

**M** + **2** + **Pager number** + **M**

**M** + **6** + **1 ~ 5** + **Numeric message** + **M**

## 3. Telephones connected to PBX (Private Branch Exchange)

- Use key **B** after input extension number

**M** + **1 ~ 5** + **0** + **B** + **telephone number** + **M**  
(memory location) (ext number)

## 4. Input Security Code

- Use key **7** to insert 4 digit security code

**M** + **7** + **0000** + **M**  
(security code)

- Security code is needed for outside control by telephone
- Input numbers within 10 seconds

## 5. How to check the programmed numbers

- Checking should be done within 10 seconds at "Clear" mode.
- Press the memory location key [ **1** ~ **5** ] one after another.
- Tone sound occurs as many as telephone numbers.

e.g. \_\_\_\_\_

For "123-4567" in location "**3**", press number "**3**" in "Clear" mode

→ Tone sound occurs 7 times. [ ----- ]

- Quick tone sound will be heard 4 times for empty location key. [---]

## 6. How to delete and Re-enter numbers

**M** + **1** + **M** : Delete memorized numbers in location **1**

⋮

**M** + **5** + **M** : Delete memorized numbers in location **5**

- Tone sounds occurs twice [--] when the numbers are deleted

## 7. Siren Mode On/Off

- Siren by using Key **A**
- Change the mode within 10 seconds at "Clear" mode
- Press key **A** : Tone sounds occurs three times [ - - ] / Siren On
- Press key **A** one more time : Tone sound occurs once [-] / Siren Off

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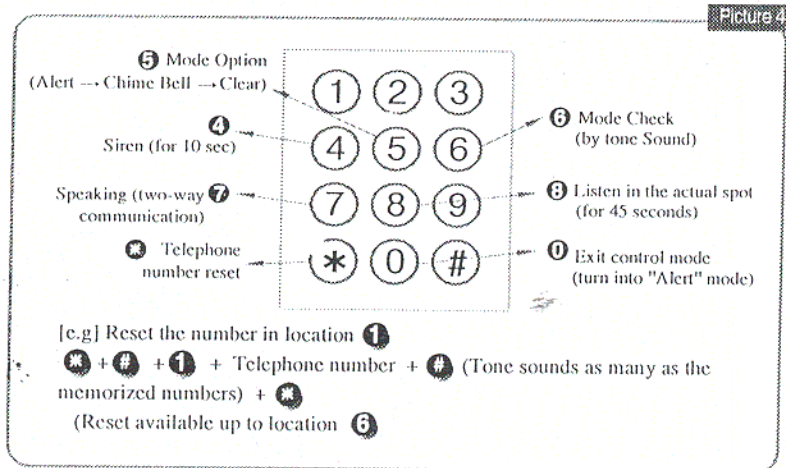
## Outside Control

### 1. Calling from outside

- 1) Make a phone call to the number of SA-3500.
- 2) Automatically answers after 10 dial tones.
- 3) After tone sound [-], press 4 digit security code.
  - Tone sound occurs 5 times [- - - -] for wrong security code.
  - Automatically disconnected when fails three times.
- 4) Tone sound occurs 3 times [- - -] for the correct security code
- 5) Use control key for outside control(see picture 4)
- 6) Security code is changeable only from the main unit

### 2. Button Control

- Use the buttons on the telephone or mobile phone described below for outside control

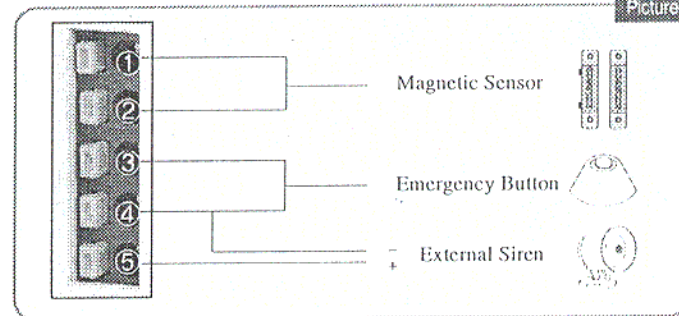


### 3. Caution for external control function

- Since SA-3500 has automatic receiving function, please ask your local dealer when connect the unit to fax or telephone which has automatic answering function
- SA-3500 connected to telephone line which is bound to PBX might not be able for external control; Please ask your local dealer for more details

## Usage of External Terminal

### External Terminal



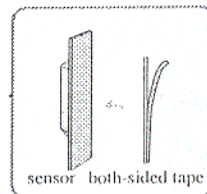
### Magnetic Sensor

#### 1. Where to install

Any detection site  
(e.g. Window, door, etc.)

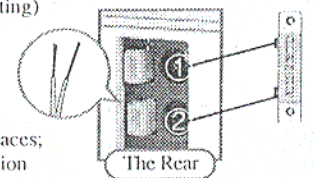
#### 2. Installation

- 1) Peel off both-sided tape
- 2) Attach tape to magnetic sensor
- 3) Attach magnetic sensor on window or door



#### 3. How to connect the main unit

- Press both buttons, insert the magnetic line into the hole and release the buttons (Peel off the line before inserting)
- Connect as the same direction for extra sets of magnetic sensors



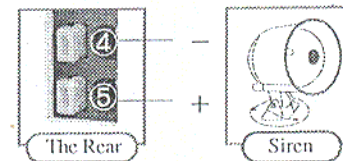
#### 4. Cares for installing magnetic sensor

- Avoid installing magnetic sensors at the following places; inappropriate installation could cause improper function
  - 1) Site/location with a vibration/magnetism
  - 2) On the iron gate(c.f. able to install on the aluminum frame)
- If the space between the magnetic sensors is more that 5mm, the unit will not operate.

### External Siren

#### Siren (not included)

- Connect external siren for more effective protection
- Please make sure to match the polarity(+ and -).



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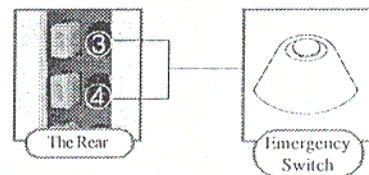
EXHIBIT #: 3F



## Emergency Switch

### Emergency Switch (not included)

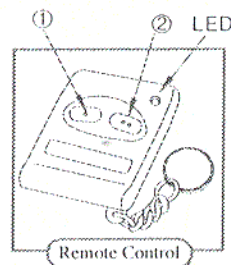
- Emits siren and dials for emergency



## Remote Control

### Remote Control

- Button ① works as mode button
  - Works same as the mode key on the side of the unit
- Button ② works as an emergency button
  - Emits siren and dials up
  - Use this button for emergency only
- **Power**
  - Battery duration [23A, 12V Alkaline] : for about 2 years
  - Change battery when LED lamp is off



## Memory Duration

### Memory Duration

- Built in flash memory keeps all the memorized information even disconnected from main power.

## SA-3500 Q & A

- Q. Please tell the reason why SA-3500 does not detect anything just after turning it on.
- A. This is to allow you some time for installation and leave the house/store.
- Q. How can we distinguish the calls between SA-3500 and a normal phone?
- A. Call from SA-3500 has "beeping" sound every four second, which is easily distinguished from phones.
- Q. Is it possible to install more magnetic sensors except the supplied one?
- A. Yes, you can purchase the extra magnetic extension pack from the local dealer, and connect it to the magnetic line at the back of the Unit. There are two ways of connecting it.
- First, insert two lines from the each magnetic sensor into the external sensor terminal, and fix it firmly.
- The other way of connecting is to connect only the last magnetic sensor to SA-3500 after connecting from one magnetic sensor to the other.
- Do not install in the following places.
- near a power line and neon sign
  - the place with the high tension wires or possible thunder strike.
  - on a steel panel and magnetic material
  - the place that has strong vibration and movement
  - the place that has the possibility of peeling off the cover of the connecting wire (e.g. between doors/windows)
- Q. To install at more than two places, should the user buy two SA-3500?
- A. Yes. If not, the user can use many magnetic sensors. However, if more infrared sensors are needed for spatial reason, the user should buy more SA-3500. Even with one phone line, multiple phone sets can each be connected to them.

Q. The phone in use has extension number system. However, although pager number dialed with extension number, no alert occurs after detection. What should be done?

A. In this case, the switcher in use is an old model. Push extension number first, then push the PAUSE key and the phone number to call. It should be checked first whether local call, long distance call or a call to mobile phone are possible with the phone connection to SA-3500.

Q. Can pet birds or small insects like cockroaches be detected?

A. SA-3500 uses PIR sensor. It means SA-3500 detects moving objects with heat detecting sensor. Therefore, it detects not only large animals but also small pet dog, bird and mouse. But in case of small animal like a mouse, it is possible that the sensor fails to detect if it isn't right in front of the sensor. (cockroaches can't be detected)

Q. If an obstacle obscures SA-3500, can it still detect an intruder?

A. Since it detects the heat of a living creature, if conduction of heat is hampered, the detection will be difficult. Therefore special care should be taken in order for any object not to obscure the sensor. And it will be effective if provided magnetic sensors are used for doors (windows) where detection are expected to be difficult.

Q. Is it possible to detect in dark places?

A. As it detects the heat of a living creature, it can detect in dark place.

Q. Is it possible to install magnetic sensor at steel door?

A. As it is already known, magnetic sensor has magnetism. In case of steel door, the magnetism will be directed to the door, which will keep the sensor from functioning properly. Therefore, it is wise to avoid installing sensor at a steel door but in an inevitable case, a pad (cardboard, two-way sticky tapes, wood piece) should be laid at the steel door.

Q. What is the false alarm prevention program explained in the manual?

A. The false alarm prevention program is designed to prevent an instant sensor detection due to external factors by letting it alert to user if same sensor detection occurs twice. It is programmed in case external factors like wind and strong light affect detection.

Q. In case of listening to site sound, is the listening time shortened according to how late the user picks up the phone?

A. Our product is programmed with Motorola chip and is activated only within the standard-approved time frame. Therefore, all products will be activated with the same time frame. The later the user picks up the phone, the shorter the listening time gets. (For example, if the user picks up cell phone after five rings, the listening time will be 45seconds minus 15seconds(the ringing time).

Q. Can siren sound be turned up?

A. The siren level is 90dB. (when measured 1M away from it.) It is for indoor usage only and such level means that the siren can be heard from hallway with door closed in 1,067 Square Feet apartment. This is enough to scare off intruder at home and office. Raising siren level is up to the design of other parts like output and speaker. It is desirable to set proper siren level relative to the product size.

Q. Can it detect if I put it on a TV or a refrigerator instead of wall?

A. This product takes the form of beam with the detection distance of 8 meters, detection range of 80 degrees in horizon, 20 degrees in vertical. Hence, it can detect even if you install it on a desk with the height of 75 cm on the average. But please note that the detection degree of vertical direction can be decreased if you install deep inside of table and desk.

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Q. What is included in an extension pack of magnetic sensor?

A. 2 magnetic sensors and connecting lines are included. You may use it by cutting it as much as you want. If you need more magnetic sensors, you may purchase an extension pack.

For your reference, our magnetic sensor is a product of "AMSECO" in USA that has been widely recognized of its excellent quality worldwide. Of course, it is much more expensive compared with other products. In addition, we specially manufacture connecting lines for white color. White connecting line is not available in the market. You can purchase it only at the dealer you bought SA-3500

Q. In case of magnetic sensor connection, does infrared sensor also detect?

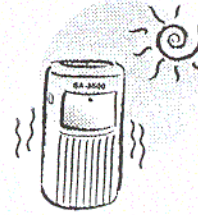
A. Attention should be given in installing magnetic sensor so that they head toward same direction and two sensors should not apart each other by more than 5mm. If the wrong installation remains incorrected and the user goes outside, both the sensors will not function.

Q. In case of magnetic line connection, can normal electric cord or phone wire be used?

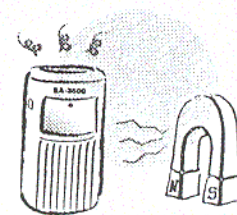
A. Yes. But if wire is too thick, an installation job can be difficult and more electricity will be wasted. Therefore recommended wire should be used.

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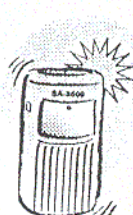
## Care and Maintenance



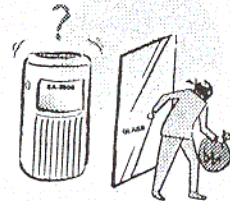
Do not place near or over heat register, or exposed to direct sunlight.



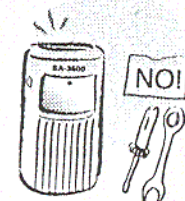
Do not place near a line of magnetic force.



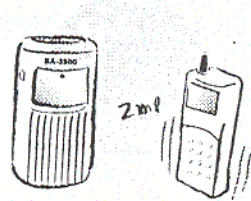
Avoid excessive force and severe vibration. Place stable surface.



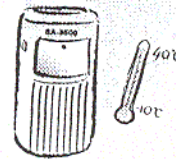
Blocking the sensor will significantly lower detecting ability



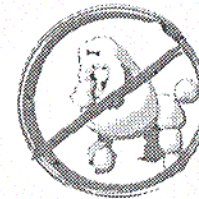
Never modify your SA-3500



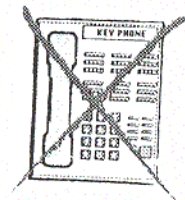
Keep a 2m distance from cellular phone / cordless phone



Do not install the set where severe temperature changes



Keep pets from entering detecting range



Not allowed for use with a touch phone.

This product is not an anti-theft security system but an alarm system to check an entry/exit. Complete understanding of this product will ensure proper usage.

[www.speedalarm.co.kr](http://www.speedalarm.co.kr)

**SK Global**  
www.skglobal.com

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# SA-3500

User's Manual

*Perfect for home, office, warehouse  
or shop-anywhere you can imagine*

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FCC ID: O8BSA-3500  
JOB #: 300ZK0  
EXHIBIT #: 5

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