MODEL NO.:AEC-9331BSD-SP8-WF
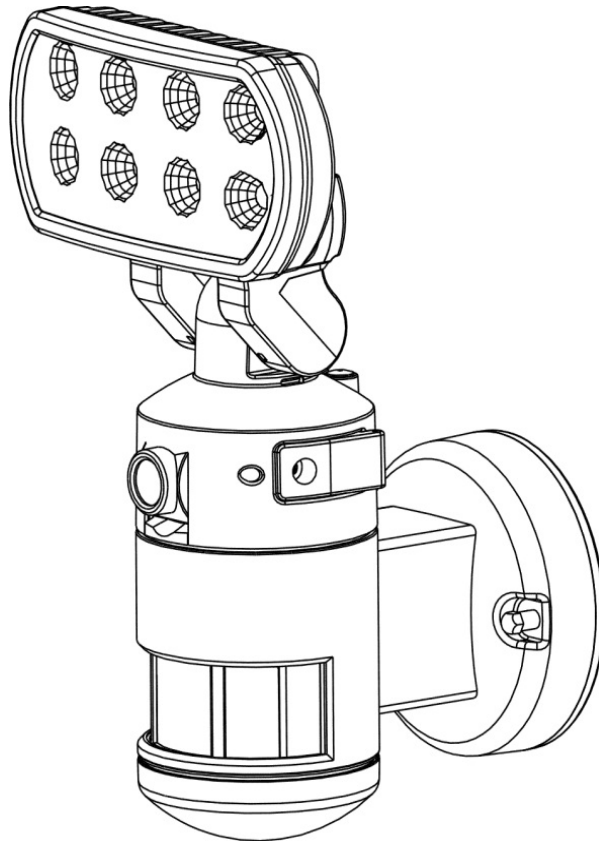
USE AND CARE GUIDE
ROBOTIC LED FLOOD LIGHT WITH WIFI VIDEO CAMERA

OS Windows 2000 / XP / Vista / 7 / MAC
Micro Memory Card 1GB SD ~ 32GB SDHC (max) Class 4 C US   LISTED

Table of Contents

Safety Information

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
   If this equipment does cause harmful interference
   to radio or television reception, which can be
   determined by turning the equipment off and on,
   the user is encouraged to try to correct the interference
   by one or more of the following measures:
   --Reorient or relocate the receiving antenna.
   --Increase the separation between the equipment and
     receiver.
   --Connect the equipment into an outlet on a circuit
     different from that to which the receiver is connected.
   --Consult the dealer or an experienced radio/TV technician
     for help.

3. The installation of this light fixture must be done by a qualified electrician.

4. The motion sensor may not operate correctly if it is installed:

   □ Near the outlet of a central heating boiler.
   □ Near an air condition unit.
   □ Pointing directly at moving vehicles.
   □ Within sight of reflection from moving water.
   □ Where other lights could be pointed onto the sensor.
   □ Avoid installing the product where the direct sunlight could shine on the detector.

IMPORTANT:	
This light fixture must be grounded.	

CAUTION:
Do not immerse the light fixture in the water.
Do not mount the light fixture against flammable surfaces.

WARNING:
Changes or modification to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.
This Nightwatcher Wi-Fi camera is a precision electronic device. Do not attempt to service this camera yourself, as opening or removing covers may expose you to the danger of electric shock or other risks.

Warranty

12 MONTH WARRANTY

WHAT IS COVERED

12 month limited warranty from date of purchase. Please retain proof of purchase. The manufacturer reserves the right to replace or repair the faulty unit.

WHAT IS NOT COVERED

The warranty does not cover damage to the unit that may occur as a result of improper installation. This product is designed to illuminate, it will not prevent the perpetration of any act, legal or illegal. The manufacturer assumes no liability for any damage to property, injury to person, or death.

Pre-installation

PLANNING INSTALLATION

Never attempt to turn the light head by hand as this can damage the internal motor components.

> **NOTE:**
> Before attempting any installation or maintenance, ensure that the electrical supply is switched off and the circuit fuses removed or the circuit breaker is in the "OFF" position.

TOOLS REQUIRED (NOT INCLUDED)

Hammer   Safety goggles   Phillips screwdriver   Level

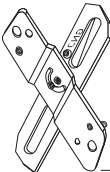## HARDWARE INCLUDED

> **NOTE:** Hardware not shown to actual size.

___AA   ___BB   ___CC   ___DD   ___EE   ___FF

Part	Description	Quantity
AA	Mounting screw	2
BB	Drywall screw	2
CC	Plastic masonry anchor	2
DD	Wire nut	3
EE	Cross bar	1
FF	Allen Key	1

PACKAGE CONTENTS

NOTE:
Nightwatcher Wi-Fi camera is designed to illuminate, record video and produce audio warnings when a person enters the detection area. While it will detect a moving heat source, there is no guarantee implied that it will provide total security or prevent illegal entry.
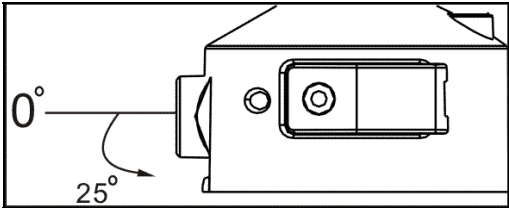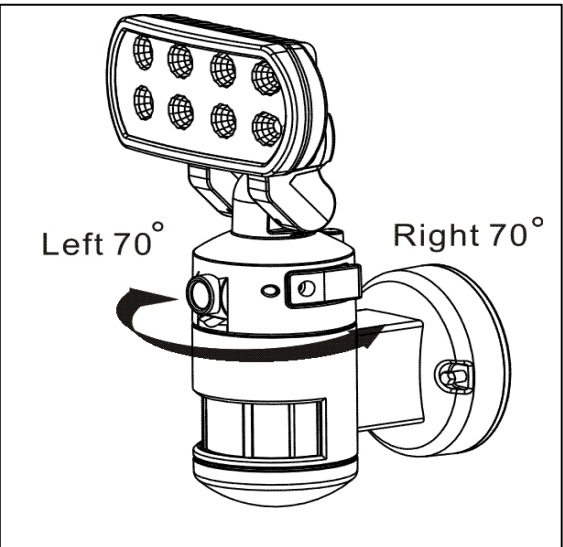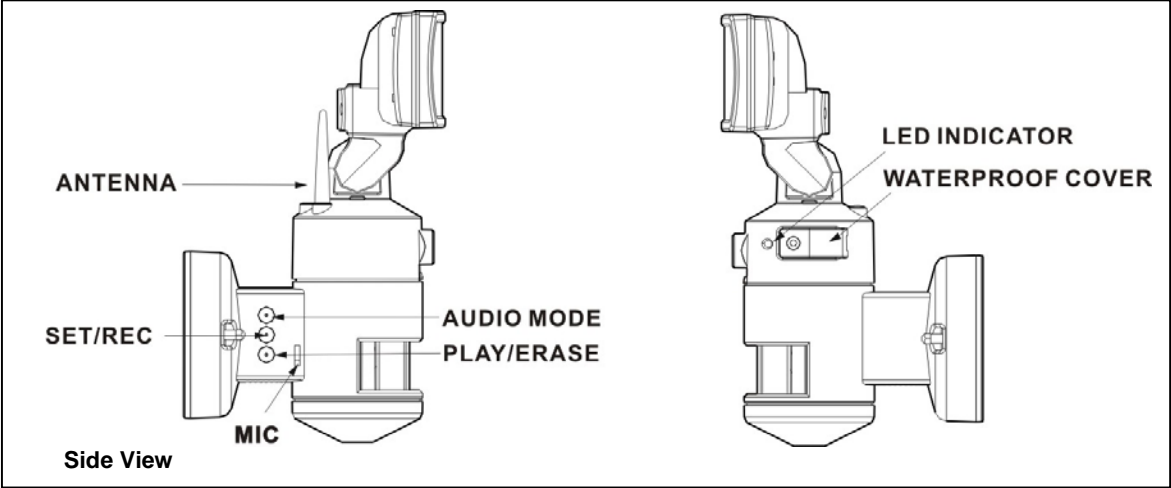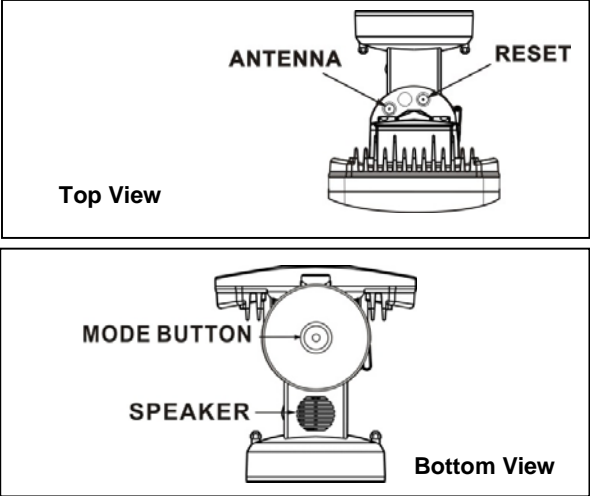
Part	Description	Quantity
A	Light fixture	1
B	Backplate screw	2
C	Screw nut	2
D	Micro card and card adapter (*Micro card is already inside the card compartment of the light*)	1
E	User manual	1
F	EVA gasket	1

SPECIFICATIONS

Detection **M**ethod	Passive infrared sensor (with continuous detect function)
Sensor **R**ange	Up to 55ft x 220°
Power **S**ource	AC120V 60Hz
Light **S**ource	1W LED x 8pcs (855 Lumens)
Illumination **T**ime	Fixed at 3 minutes
IP Rating	IP55 (Weather-Proof) Suitable for outdoor permanent use

- Records 20 second video events at 15 frames per second. 720 pixels (HD) resolution.

- Built-in Micro card slot for Micro memory card

- Micro card slot can accommodate up to 32GB (SDHC)

- Micro card video file format: FAT or FAT16 (SD) FAT32 (SDHC)

- Automatic exposure control, white balance and sharpness

Nightwatcher Overview

LED
Camera
3 motion sensors
Mode LED Indicator (hidden inside)
Front View

ANTENNA
RESET
Top View

MODE BUTTON
SPEAKER
Bottom View

ANTENNA
SET/REC
AUDIO MODE
PLAY/ERASE
MIC
LED INDICATOR
WATERPROOF COVER
Side View

Left 70°
Right 70°

0°
25°

Camera angle adjustable downward by 25 degrees

<table>
<tr><td>

DANGER:
Incorrect voltage may cause electric shock. If you are not sure, please contact your retailer.

</td></tr>
<tr><td>

CAUTION:
Do not remove the tape until you finish the installation. If the tape comes off the light, please replace it or hold the light head to avoid swiveling and damage to the product.

</td></tr>
<tr><td>

CAUTION:
LED lamps are extremely bright. Under no circumstances should you stare into an LED beam since this may cause irreparable damage to the eye.

</td></tr>
<tr><td>

IMPORTANT:
Please make sure the voltage and polarity are correct before connection.

</td></tr>
<tr><td>

NOTE:
To ensure correct operation of the sensor, mount the light fixture so that the traffic passes across the detector.
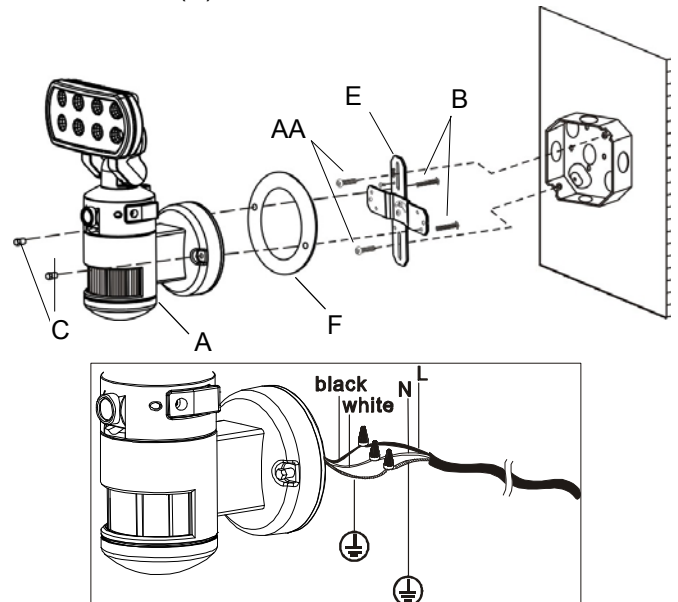
</td></tr>
</table>

For optimum performance the recommended mounting height of the unit has to be between 2m (6.6ft) and 3m (10ft) – **with 2,5m (8ft) the best performance height** - Do not mount the unit higher than 3 meters (10ft) as this will affect the detection functions of the unit.

When selecting your installation area **it's important** to be aware of positioning the Night Watcher fixture sight line due to possible factors that could cause false triggering; such as direct sunlight, window refection, air condition units, swimming pool reflection, direct street lighting or large vegetation in the installation area.

To prolong the lifespan of the Night Watcher fixture it is advised to install the unit in a selected area that is not directly exposed to extreme weather conditions and if possible under an eave based on the recommended

mount   Recommended installation

Installing your Nightwatcher on a wall or building surface - use cross bar
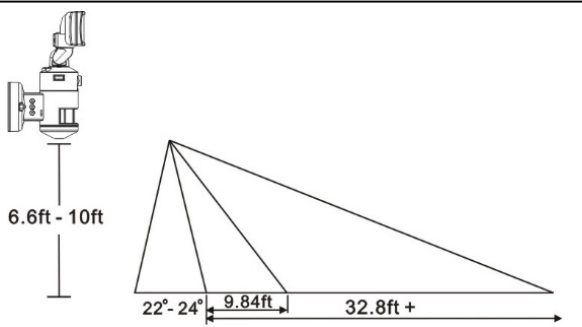
- □ Attach the crossbar to junction box and fix by mounting screw (AA).
- □ Connect the black wire (live wire) from the AC power cord to the single black wire coming from unit using one of the supplied wire nuts (DD).
- □ Connect the white wire from the AC power cord to the white wire coming from unit using one of the supplied wire nuts (DD).
- □ Connect the green/yellow wire from the AC power cord to the green/yellow wire coming from unit using one of the supplied wire nuts (DD).
- □ Make sure the polarity is correct.
- □ Attach the unit (A) and EVA gasket (F) to the crossbar (EE) and fix by backplate screw (B) and screw nut (C).

<table>
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CAUTION:
Please allow 30 seconds warm-up time after switching on.
Do not touch unit during warm-up time to avoid interruption of start-up sequence. Push the RESET button after switching on.
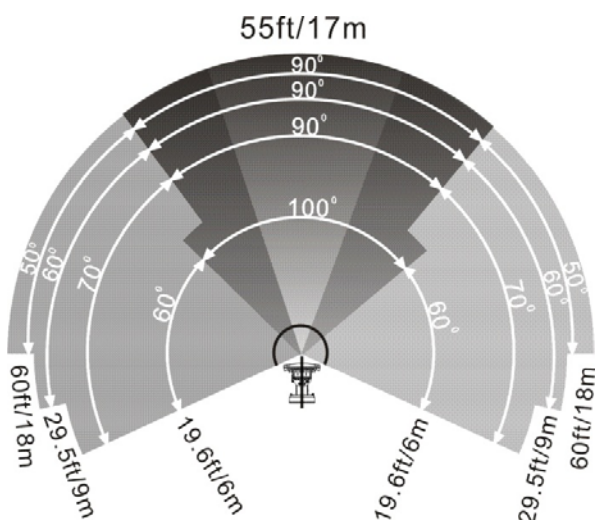
</td></tr>
<tr><td>

IMPORTANT:
Remove the security tape from unit and plastic lens cover from camera after installation.
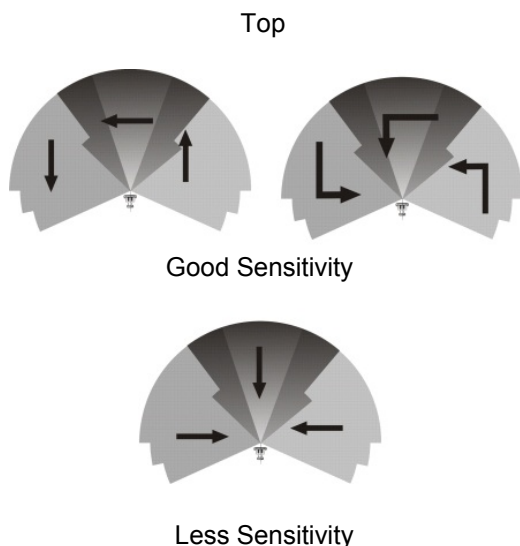
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</table>

Operation

- This light is equipped with three motion sensors: zone 1 covers 60 degrees, zone 2 covers 100 degrees and zone 3 covers 60 degrees. There is a 220 degree maximum total in all three zones.
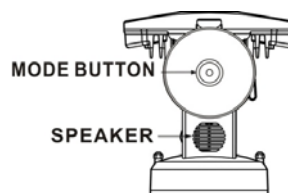

Ensuring correct operation

- To ensure correct operation of the sensor, mount the light fixture so that the traffic passes across the motion sensor.

Top

Good Sensitivity

Less Sensitivity

- **Selecting working mode**: There is a "Mode" LED indicator hidden inside the motion detector window that will display different colored lights when switching between modes. Once a mode has been selected, the colored LED light will turn off after 30 seconds.
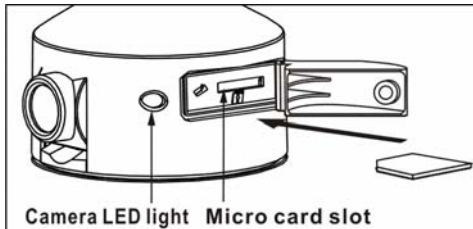

- **Mode 1: Recommended for home or business** (default setting)
  - Camera will follow motion and record during the day and night
  - Light will illuminate at night only
  - Speaker will operate at night only
- **Mode 2:**
  - Light illuminates during the day and night
  - Camera records motion during the day and night
  - Speaker operates during the day and night
- **Mode 3:**
  - Camera will follow motion and record during the day and night
  - Light will illuminate at night only
  - Speaker will operate during the day only

> **NOTE:**
> For the above 3 modes, after audio has been triggered, no audio will be triggered again during the following 30 seconds.

	Mode LED indicator (Hidden inside the lens)	Symbol
Mode 1	**RED**	
Mode 2	**ORANGE**	
Mode 3	**GREEN**	

Camera LED indicator

□ The LED light next to the card compartment indicates the function status of the camera by using different colored LED lights.
  - Flash slow in RED**:** AP Mode
  - Remain in RED: P2P Mode
  - **Green:** The unit is recording.

Camera LED light   Micro card slot

NOTE:
Before removing the micro card from the slot, please press the mode button on the bottom of the Nightwatcher for 3 seconds to stop the light from turning – the "Mode" LED will flash orange. To resume working, press the mode button once.

NOTE:
When OFF/REC button is pressed, remove micro card within 30 seconds (now the LED will turn red after micro card is removed from the slot).

□ **Static mode** : this is a new option to allow the end-user's or consumers to select between a motorized LED head or a standard static directional light head. Press the push-button for 3 seconds to stop the light turning, the hidden LED will flash RED in Night Mode and flash GREEN in ALL Day Mode in a quick flash pattern. To resume working, press the push-button for 3 seconds again.
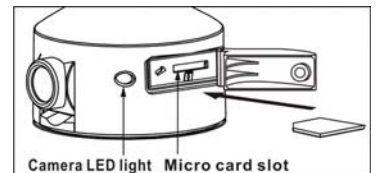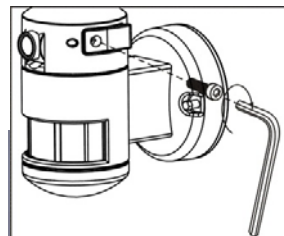
□ Before removing the micro card from the card slot, please press the mode button on the bottom of the Nightwatcher for 3 seconds to stop the light from turning – the 'Mode' LED will flash orange. (To resume working, press the mode button again.)

□ To remove micro card, open the card compartment using the provided Allen key and push in Micro card to eject then pull out.

□ For viewing and/or formatting, please slide the micro card into the card adapter that has been provided. Then, slide the card adapter into the card slot on your laptop.

Formatting the micro card

□ It is good practice to format the micro card each time it is removed and files are viewed on your PC. Once the necessary files have been saved to your computer, please follow these steps for formatting.

To format the micro card

□ Please ensure that any required images are saved to an alternative folder prior to formatting.
  - Place micro card into the card adapter supplied
  - Place the adapter in a spare card slot on your PC / Laptop
  - Right click on the micro card location
  - Select Format
  - Ensure the correct file system is selected FAT16 (or FAT) for SD and FAT32 for SDHC
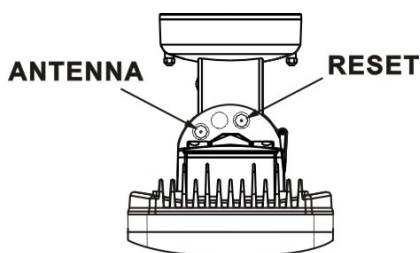 - Select quick format

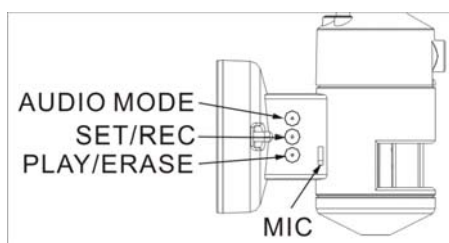Camera LED light   Micro card slot

<Place holder for website>
Please contact 1-877-527-0313 for further assistance.

Operation (continued)

- **Reset button:** restore functions to default settings
  - Press this RESET button, the camera will turn to AP mode
  - Press this RESET button for 5 seconds, the camera will restore the functions to default settings.

- **Audio mode:** for selecting which audio message will play when motion sensor detects movement.
  - Pre-set default is "silent mode"
  - Push once for "doorbell chime"
  - Push again for "dog barking"
  - Push once more for the message you recorded (Message 1)
  - Push again for additional message you recorded (Message 2- you can record up to 2 messages at a time)

- **Recording:**
  1. Press the SET/REC button for 3 seconds, and you will hear a single beep. After the beep, start recording your message by talking into the microphone. Push the button again to stop recording, and you will hear a series of 2 beeps, meaning the recording is finished. If you do not push the button again after you have recorded the message, the recording will stop automatically after 10 seconds.
  2. The Nightwatcher can hold 2 custom-recorded messages. If you have recorded one message, repeat above step for message 2.
  3. If you hear a series of 3 beeps when you want to record your message by pressing the SET/REC button for 3 seconds, this means the self-recorded messages are full, please erase previous messages.
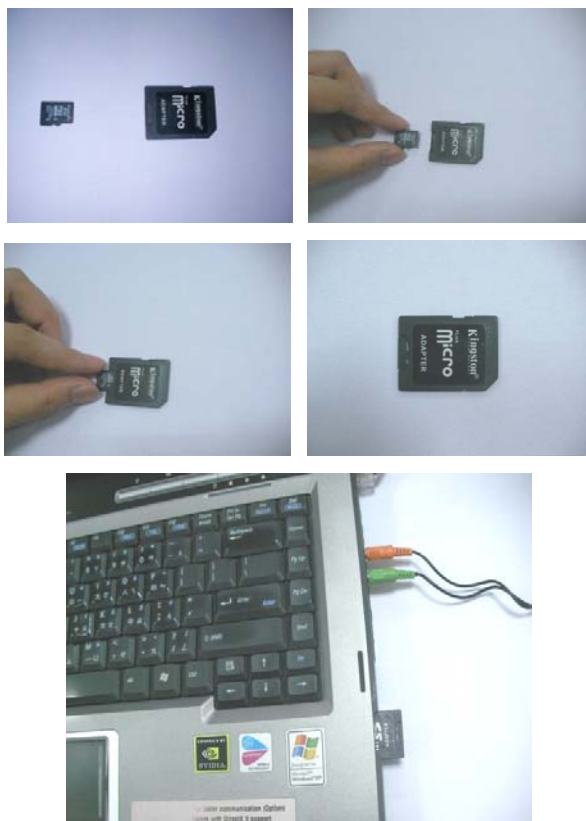
- **Play/Erase:** allows you to listen to and erase messages
  1. If you have only recorded 1 message, push the button one time to listen to recorded Message 1. If you wish to erase it, press the PLAY/ERASE button and hold it for 3 seconds. You will hear a series of 2 beeps, indicating the message has been erased.
  2. If you have recorded 2 messages, push the button one time to listen to the first message, and push it again to listen to the second message. If you want to erase a message, select that message, and after listening to it, push the PLAY/ERASE button and hold it for 3 seconds to erase it.
  3. If message 1 is erased, message 2 will automatically become message 1. The next message you record will then become the new message 2.

Viewing image by computer through a card reader.

□ Press the push button on the bottom of the unit for 3 seconds to disable the unit.

□ Open the waterproofed cover on the unit.

□ To remove Micro card, press on micro card to eject then pull out.

□ Slide micro card into supplied card adapter as indicated in the pictures at right.

□ If your computer has a card slot you may insert the micro card directly into the computer. Otherwise you will need to use a USB card reader (not supplied).

□ Once your computer is powered on, insert the card adapter into your computer. Regardless of whether you are using Windows or MAC OS, your card should be recognized by your computer after a few seconds.

□ Follow the instructions of your computer to view the contents of the removable storage device (micro card). Each recorded event will be listed in order by date. Simply click on the filename to view the file.

□ After viewing the files, remove the card from your computer and remove the micro card from the adapter.

□ Insert the micro card into the slot on the light until it is secure. Then close the card compartment door and tighten the screw with the Allen key.

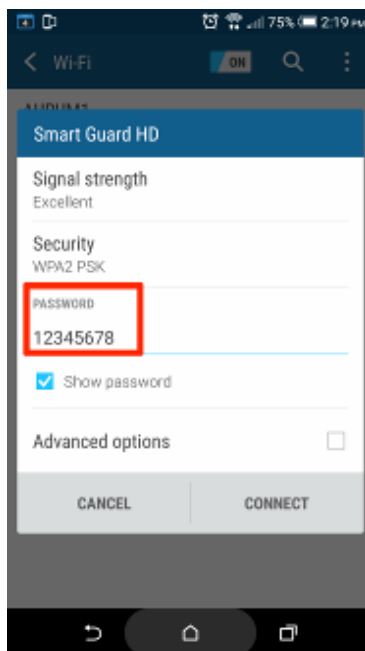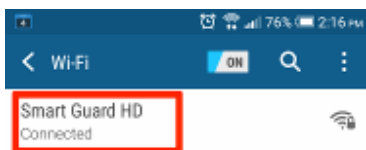□ Press the "Mode" button once to resume normal tracking operation.

Operation

System Set Up (Link camera with WIFI Network)

1.1 Link camera with Smart phone/Tablet (AP Mode)

□ Using smartphone or tablet to launch "Smart Guard HD" APP from APP store (iOS) or Google Play store (android). Download.

□ Go to smart phone's Wi-Fi setting and site survey UID "Smart Guard HD".

Connect "Smart Guard HD" with default password "12345678"

□ Once the connection is established, open "Smart Guard HD" app and the camera screen will appear on your smart phone or tablet.

□

※ If there has below message " Cannot connect to internet through "Smart Guard HD" or Internet connection unstable "Smart Guard HD " shown on the screen, please disregard the message and you still can continue next step. The different smartphone/tablet will show the different message.
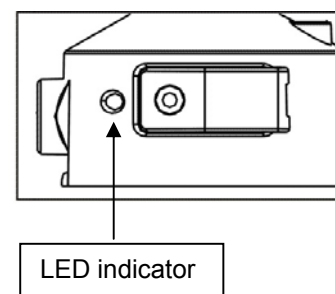
1.2 Link camera with home AP

- □ Link camera with home AP allows user to watch their camera from anywhere in the world as long as they have internet access.
- □ Touch the screen twice, it will appear 5 red function keys on the right side.
- □ Touch the screen twice again, 5 red function keys will be hided.
- □ On your smart phone/tablet screen, click on "SETTING" icon . Enter camera default password "12346578".
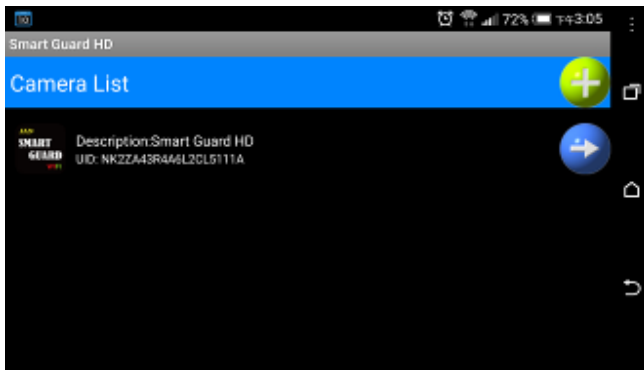
□ Select your home AP from the site survey menu.

□ Enter Home AP password if is encrypted, and click "Join"

LED indicator

□ Click "OK" and exit the app.
□ Wait for 60 seconds camera boot up again and link to WiFi AP router.
   If Join home AP connection is successful, LED indicator besides waterproof cover will display a RED light.
   If Join home AP connection is failed, LED indicator on the sensor will flash quick in Red & Green light.
   Press Reset button to return to AP mode and follow up this step "1.2 Link camera with home AP" to reset Join home AP again. Make sure your router account and password is correct.

□ Launch "Smart Guard HD" APPs again and you will see video streaming from Smart Guard HD.

Note: You may access your camera from anywhere as long as there is internet access.

1.3 Set Camera name and password: Select Wi-Fi Setting. You can change SSID name and password

● Select Wi-Fi Setting. You can change SSID name and password, the password should be 8 digital numbers or English letters. After the change, it will return to AP mode, please go to smart phone's Wi-Fi setting and site survey UID to find the name you have changed. Please then follow up this step "1.2 Link camera with home AP" to reset Join home AP router.

**We recommend it is not necessary to change SSID name.

1.4 Camera Setting

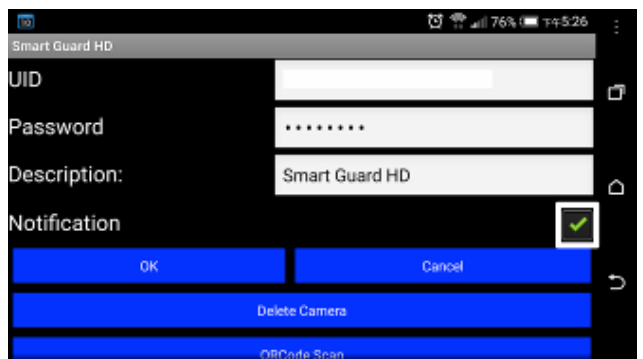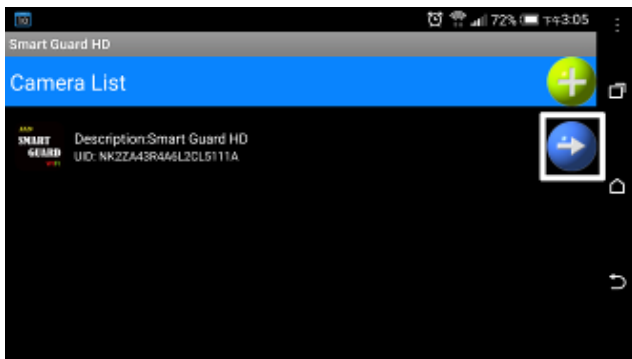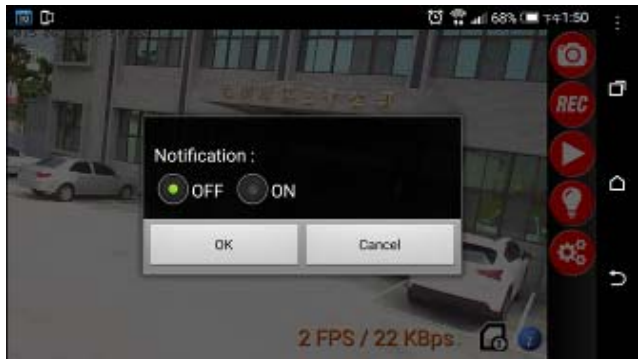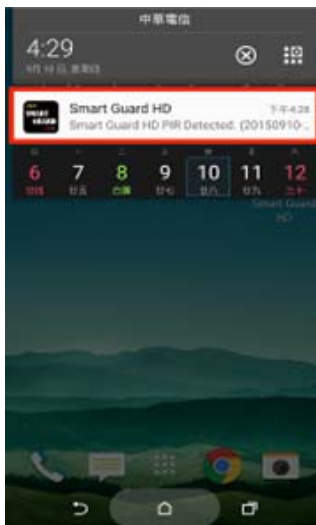□ Set Camera Time: Change this APP time depending on the time in your smartphone

1.5 Frequency Setting: Set Power Frequency

1.6 PIR Notification: Send PIR Notification signal to your smartphone/tablet
- □ Click OFF: Not to send PIR Notification signal
- □ Click ON: To send PIR Notification signal
- □ You also can go to Camera list and press " →" for the selected camera. Click "Notification" that also can send the PIR notification signal to your smartphpone/tablet

NOTE: If you click on " PIR Notification" and there has no micro SD card inside the unit, when PIR is triggered, it will send PIR Notification signal continuously to your smartphone until no any

1.7 Set Description name: You can set your own name for this Description.
- □ You can set your own name for this Description.
- □ NOTE: Your "Push Notification" name will be same as this Description.

1.8 Reset to Default: Press this "Reset to Default", the camera will restore the functions to default settings and LED indicator on the product will flash quickly in RED light. Please wait about 3 minutes till RED light to change to flash slowly.
- □ Press this "Reset to Default", then press "YES", the camera will restore the functions to default settings.
- □ LED indicator on the product will flash quick in RED light. Please wait about 3-4 minutes till RED light will change to flash slow.

2.0 Images Functions

2.1 SNAP SHOT: Take one still picture for each snap shot and picture will be saved in smart phone.

2.2 RECORD

□ Click [REC] "REC" icon to start Manual Record. The left bottom side will show Red Ball icon. Record a video at 20 seconds and video will be saved in smart phone.

□ When PIR is activated to start Auto Record, the left bottom side will show Orange Ball icon. Record a video at 20 seconds and video will be saved in Smart Guard SD card.

2.3 PLAY BACK

□ Click [▶] icon, you can choose to view recording pictures or video from "Camera SD card" or "Mobile phone".

2.3.1 Camera SD card: View the recording files from SD card

2.3.2 Mobile Phone: View the recording files from smartphone

2.4 Light control:

- The user can click this Bulb Icon to change the light to be AUTO control or Manual control
- If the bulb icon is in RED color: it means light is AUTO control. Only when the PIR sensor is detecting the movement, the light will turn on automatically.
- If the bulb icon is in GREEN color: it means light is MANUAL control. The light will stay on whatever there has detection or not. If there has one user to click the bulb icon to be GREEN color at MANUAL control, the other users also will see this bulb icon to be GREEN color. When all the users close this SmartGuard software, this icon will return to RED color at AUTO control and LED light also will be off at the same time.

NOTE：If the last user does not change the bulb icon to be RED color and close APP software or turn off the smartphone, LED light also will be off automatically within 5 min.
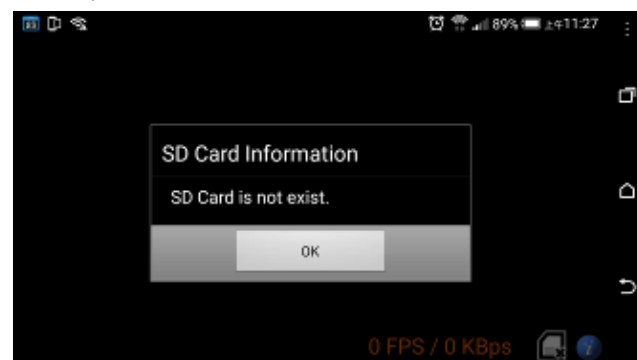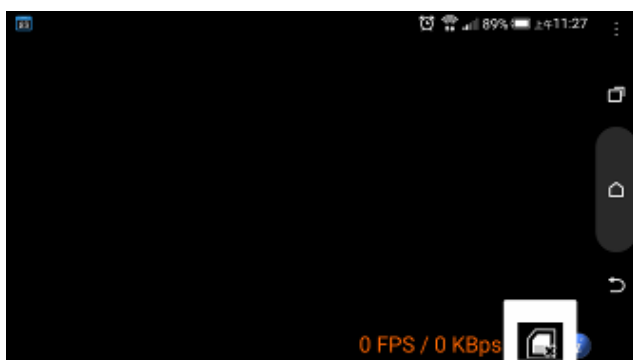
1.5SETTING: Please read the above point 1.1~1.7

2.6 Check APP version
- If there is SD card inside the product, the screen will show the icon

- If there has no SD card inside or can not read SD card, the screen will show this icon

1.7 Check APP version
- Press the bottom icon , it will show APP version and Firmware version.

- When you open APP software, it also will show APP version in the top left corner.
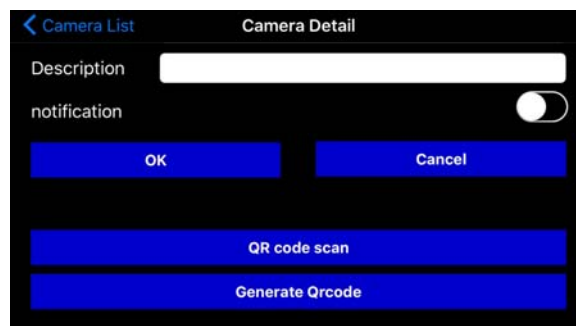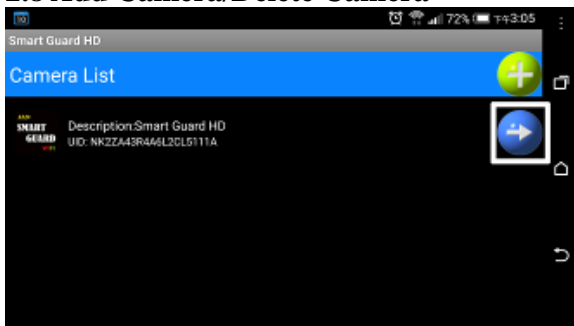
• Firmware Online Update

NOTE: We have detected a new software. Please press Upgrade FW to start. Don't switch off camera and wait for approx 3 minutes until upgrade is completed. Please make sure your APP is the newest version.

This upgrade will not change your network settings.

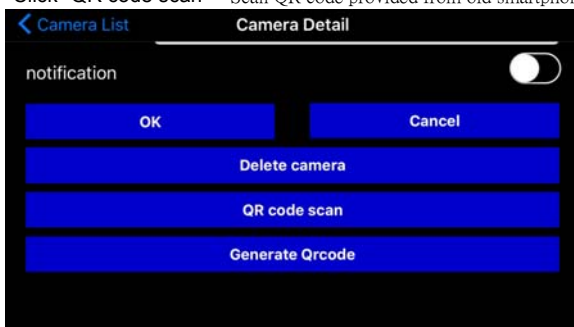## 2.8 Add Camera/Delete Camera

Add Camera:
Old smartphone:
-Click " " to enter Camera Detail

-Click "Generate QR code"：To provide this QR code to another new smartphone
New smartphone:
-Click "+" to enter Camera Detail
-Click "QR code scan"：Scan QR code provided from old smartphone and this new smartphone also can be viewed the real time video streams from the same camera.
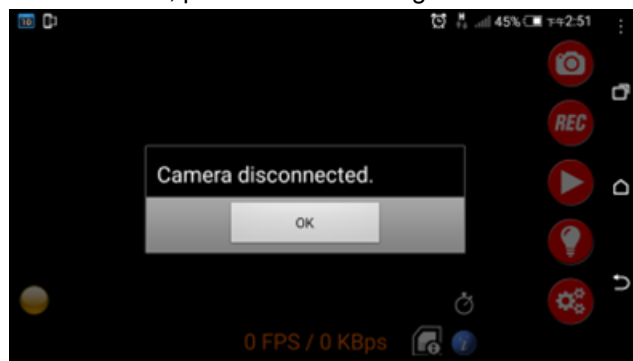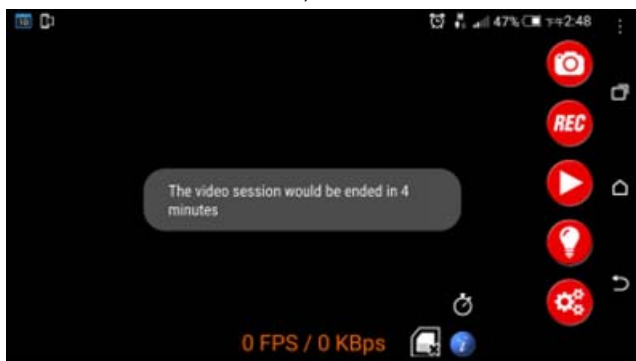

Delete camera:
Click to choose "Delete camera"：This camera will be deleted.

2.9 The speed-flow is shown on the right bottom corner of the screen

• When the network speed is getting slow or unstable, the screen will display "The video session would be ended in 4 minutes ". After 4 minutes, the screen will show "Camera disconnected", press OK and it will go back to Camera List.

2.9 LED indication on the product

AP Mode	Flash slow in RED
P2P Mode	Remain in RED
Record	Remain in GREEN
Incorrect Router password	Flash quick in RED and GREEN
False System	Flash quick in RED

2.10 Reset button:
□ Press this Reset button, the camera will turn to AP mode
□ Press this Reset button for 6 seconds, the camera will restore the functions to default settings.