

# Nightwatcher NW700



## User Manual

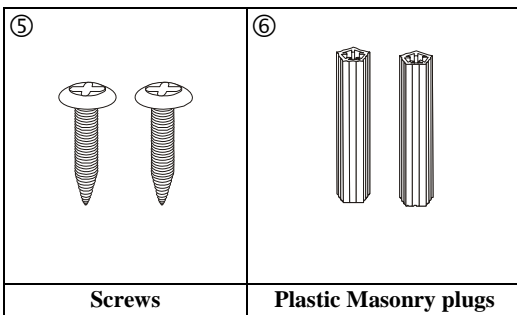
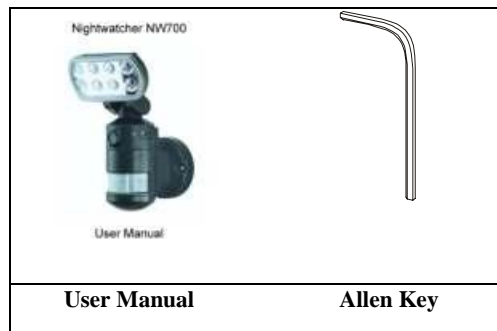
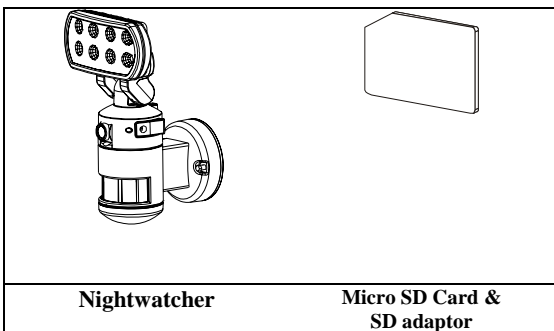
# NIGHTWATCHER NW700 USER MANUAL

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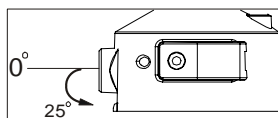
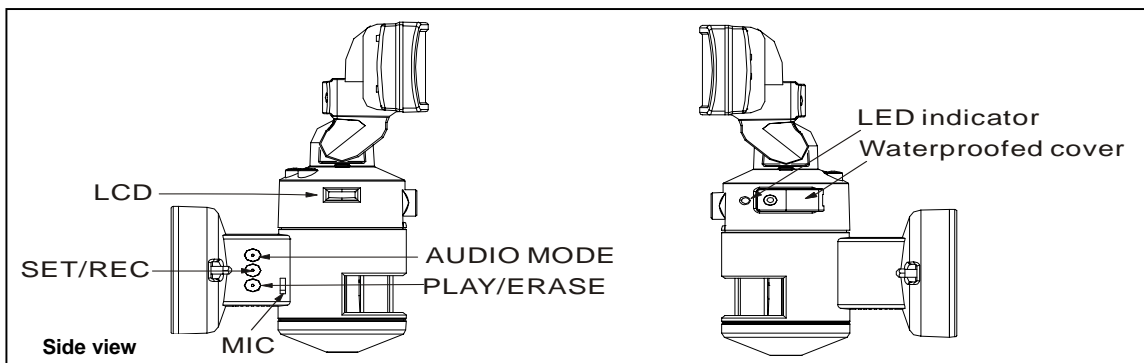
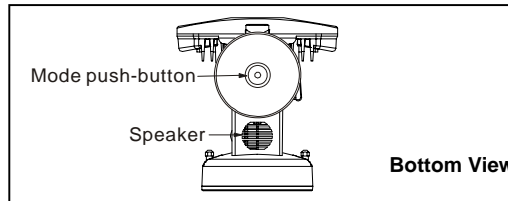
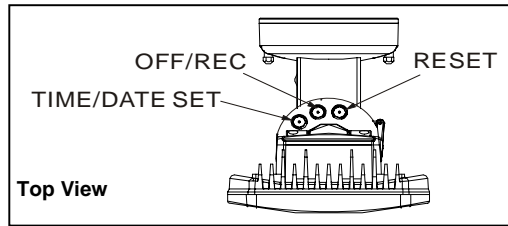
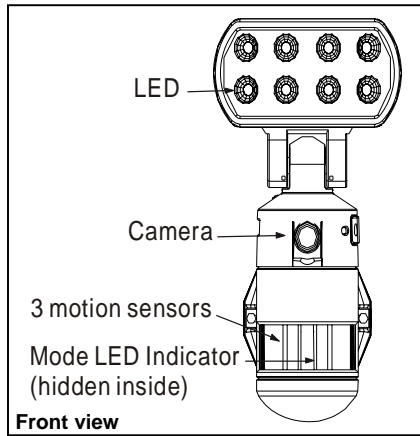
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## Contents of packaging

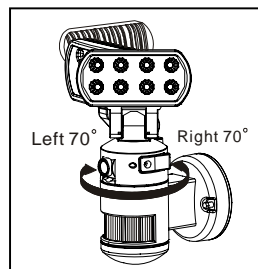
- Nightwatcher
- User Manual
- 1 Allen key
- Accessory bag: 2pcs screws, 2pcs plastic masonry plugs
- 1GB Micro SD and SD adaptor



# Nightwatcher NW700 Overview



Camera angle adjustable down 25°



## Installation

### **Step 1. Insert/remove Micro SD card (see fig. 1):**

If the Nightwatcher is powered, press the push-button on the bottom of the unit for 3 seconds to stop the light turning before attempting to insert or remove Micro SD card and the hidden LED will flash in orange. To resume to work, push the push-button again and hidden LED will stop flash.

- If you need to remove the Micro SD card, please press OFF/REC button and take it out within 30 seconds.

- Unscrew the waterproofed cover using the provided Allen key, then insert the Micro SD card until it automatically locks into place.
- When LED light turns green, meaning Micro SD card is being read, do not remove SD card or data may be lost.
- To remove Micro SD card, push in Micro SD card to eject then pull out.

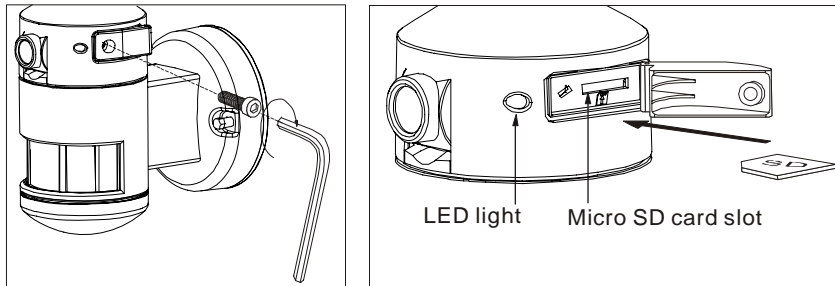


Fig. 1

## Step 2. Installing the Nightwatcher:

### IMPORTANT

IF IN ANY DOUBT ABOUT THE INSTALLATION OF THIS PRODUCT, CONSULT A QUALIFIED ELECTRICIAN

- This product must be earthed
- Do not mount the unit against flammable surfaces
- The motion detector will not operate correctly if it is installed:
  - ① Near the outlet of a central heating boiler
  - ② Near air conditioning unit
  - ③ Pointing directly at moving vehicles
  - ④ Within sight of reflections from moving water
  - ⑤ Where other lamps could shine on the detector

\* DO NOT REMOVE THE TAPE UNTIL YOU FINISH THE INSTALLATION. IF THE TAPE COMES OFF THE LIGHT DURING THE INSTALLATION, PLEASE REPLACE IT OR HOLD THE LIGHT HEAD TO AVOID SWIVELING AND DAMAGE TO THE PRODUCT.

\* BEFORE ATTEMPTING ANY INSTALLATION OR MAINTENANCE, ENSURE THAT THE ELECTRICAL SUPPLY IS SWITCHED OFF AND THE CIRCUIT FUSES REMOVED OR THE OFF/REC BUTTON IS IN THE OFF POSITION.

\* PLEASE MAKE SURE THE VOLTAGE AND POLARITY ARE CORRECT BEFORE CONNECTION. INCORRECT VOLTAGE MAY CAUSE ELECTRIC SHOCK. IF YOU ARE NOT SURE, PLEASE CONTACT A QUALIFIED ELECTRICIAN.

\* NOTE; IT IS RECOMMENDED YOU MOUNT THE NIGHTWATCHER NW700 1.8-2.1M ABOVE THE GROUND FOR OPTIMUM PERFORMANCE, DO NOT MOUNT THE FIXTURE BELOW 1.2M. SEE BELOW FIGURE FOR DETAILS OF PERFORMANCE RANGE.

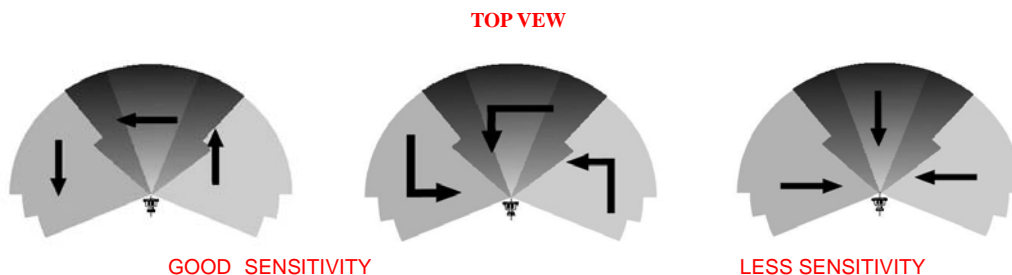


Fig. 2

Detection range: 10M x 210° (see fig. 3)

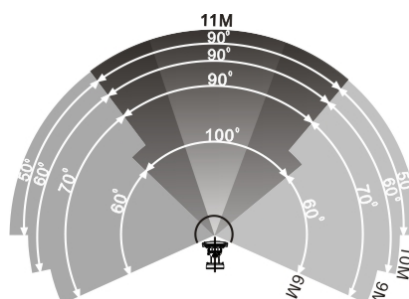
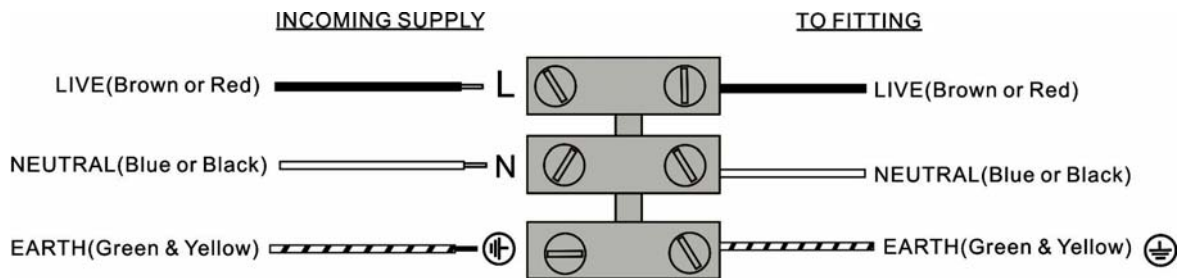


Fig. 3

## Installing your Nightwatcher NW700 on surface. (see fig. 4 & fig. 5)

1. Place plastic masonry plugs into desired surface aligning holes as shown below. Using a screwdriver, fasten mounting plate directly to surface using screws E.
2. Feed the cable through the back mounting box and bush the cable entry to avoid abrasion to the cable.
3. Wire the unit as follows: (Ensure all wires are connected securely and that no loose strands are exposed)



4. Make sure the polarity is correct. Double check the connections after wiring. Errors may damage the motion sensor or cause a fire hazard.
5. Using a screwdriver, fasten the unit to the mounting plate using the supplied screws.

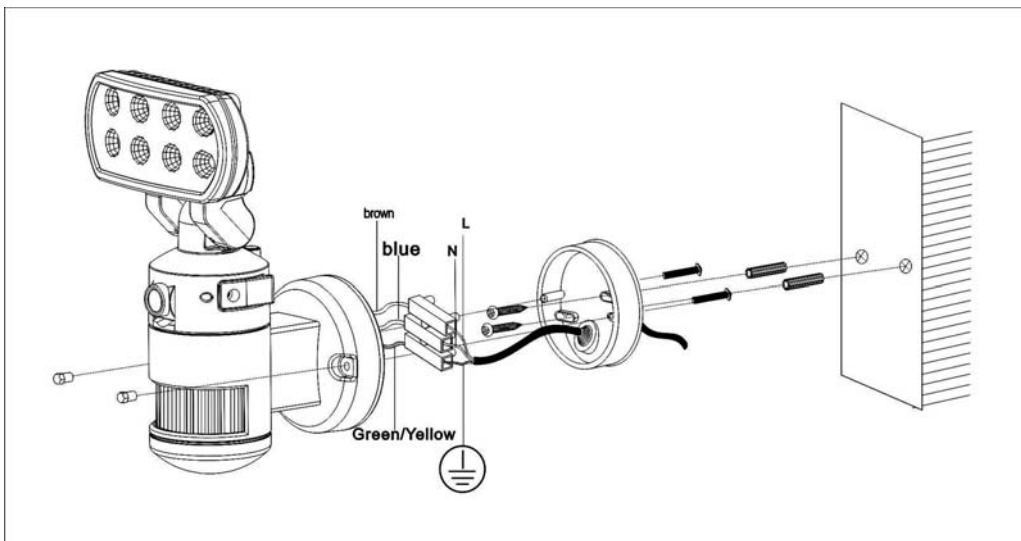


Fig. 4

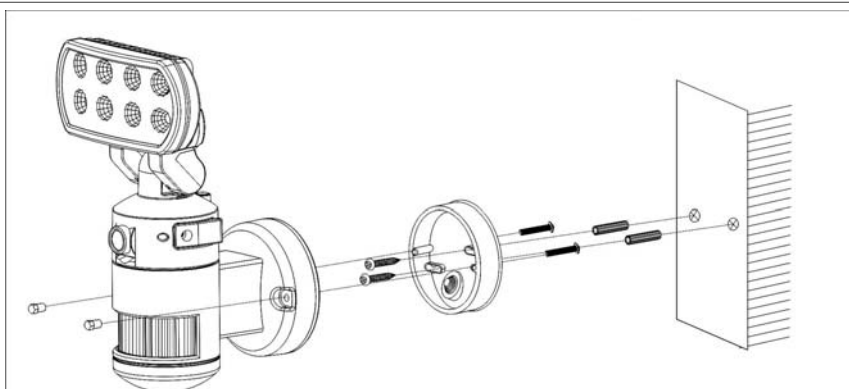


Fig. 5

Please allow 1 minute warm-up time after switching on.

\* Push the RESET button after switching on.

Remove plastic lens cover from camera and the tape after installation. (see fig. 6)

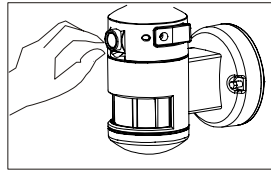


Fig. 6

## Programming Nightwatcher NW700

### Step 1. Adjusting the Settings (see fig. 7~10)

- **Selecting working mode:** Mode LED Indicator hidden inside the lens will display different LED lights when switching different modes. LED light will be off after 30 seconds.

**Mode 1: Perfect for a place of business** (default setting)

Light at night + camera all day + speaker at night

-Daytime: light is off, camera is on, speaker is off

-Night time: light is on, camera is on, speaker is on

**Mode 2: Suggested setting when out of town**

Light + camera + speaker: all day detection

-Daytime and night time: light, camera and speaker are all in operation

**Mode 3: Suggested for day to day use**

Light at night + camera all day + speaker in the daytime

-Daytime: light is off, camera is on, speaker is on

-Night time: light is on, camera is on, speaker is off

\* For above 3 modes, after audio is triggered, no audio will be triggered in the following 30 seconds.

	Mode LED Indicator (hidden inside the lens)	Symbol
Mode 1	RED	Ⓜ Ⓛ Ⓜ
Mode 2	ORANGE	Ⓜ Ⓛ Ⓜ
Mode 3	GREEN	Ⓜ Ⓛ Ⓜ

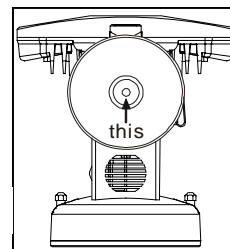


Fig. 7

- **Camera LED indicator** : for indicating the function status of the unit by different color LED lights.

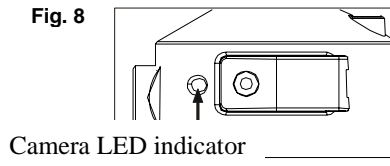
1) Red : Micro SD card (part no.②) is not inserted into the Micro SD slot or the system is malfunctioning.

2) Green : The unit is recording.

3) LED off: stand by (Micro SD card is inserted into the slot), when OFF/REC button is pressed.

\* Before removing Micro SD card from the slot, please press the push-button on the bottom of the Nightwatcher NW700 for 3 seconds to stop the light turning – the LED will flash orange. To resume working, push the push-button again.

\* Please note when OFF/REC button is pressed, remove Micro SD card (part no.②) within 30 seconds (now the LED will turn red after Micro SD card is removed from the slot)



- **Reset button:** restore functions to default settings
  - 1) Press RESET button once each time you turn on unit.
  - 2) In case of system malfunction, please press once.
- **OFF/REC:** Please press OFF/REC button to remove Micro SD card. Please remove card within 30 seconds of pressing the OFF/REC button to avoid loss of data.
  - \* **Note:** you must press the push button on the bottom of the unit for 3 seconds to disable unit first.
- **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)

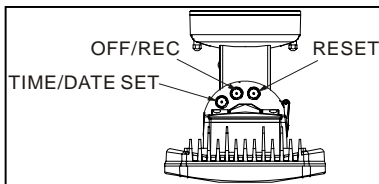


Fig. 9

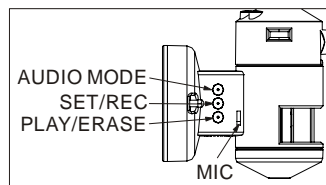


Fig. 10

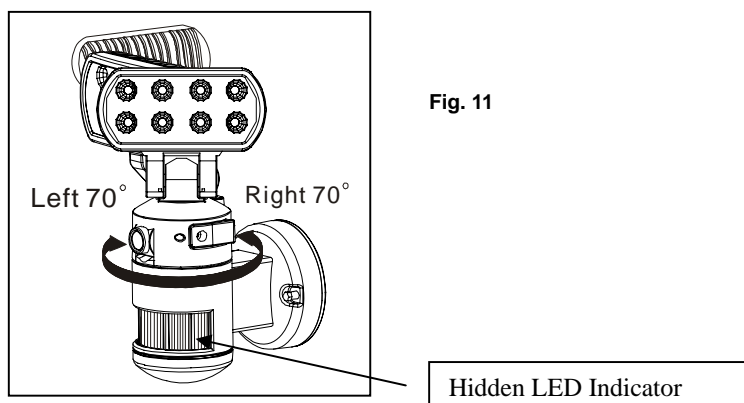


Fig. 11

**Note:**

The LED flashes in orange light continuously indicating the stepper motor of Nightwatcher NW700 is now in abnormal status, the light may stop turning automatically. Please simply switch off /on the main power to resume the Smart Tracker. Below are the possible abnormal situations:

- External force: the light head is blocked by objects or is blown by strong wind and is unable to turn properly. The hidden LED indicator will flash in orange to signal users the abnormal situation.
- Stepper motor: when stepper motor is going to be out of its lifetime or is damaged, the hidden LED indicator will flash in orange to signal users the abnormal situation.

\* If the stepper motor stops working due to lifetime limit, the Nightwatcher becomes a regular motion sensor security light.

## Step 2. Recording Audio Messages (see fig. 10)

### ■ 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 (see fig. 10). 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. Nightwatcher NW700 can hold 2 self-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 (see fig. 10)

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.

## Step 3. Set the Data and Time :

This will allow the security video taken by Nightwatcher NW700 to display the correct date and time it was taken.

**Note:** Time must be set on the unit or it will not record.

1. Push TIME/DATE SET button (see fig. 12) for 3 seconds, LCD screen will flash 3 times indicating you have entered Time/Date setting mode.

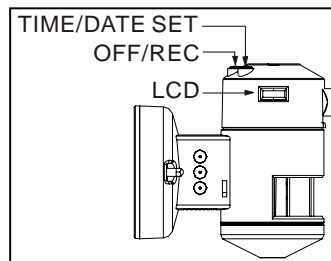




Fig. 12

2. **“YEAR” setting** : “Y” and “08” are displayed on the screen ; push the button to set year from “08-99”, push the button again and hold for 3 seconds to scroll through numbers quickly. If you have not pressed the button for 3 seconds, it will automatically save the year and go on to allow you to set the month.

3. Repeat the same setting procedure for **MONTH/DATE/HOUR/MINUTE**.

4. **“VIDEO/PHOTO” setting** : when entering this mode, these two icon   and “V” appear on the screen: push the button to choose ”V” (Video) or ”P” (Photo).

If you have not pushed any buttons for 3 second, “OK” will appear on the screen, indicating it has automatically saved the current settings. The LCD screen will shut off automatically 10 seconds later.

\* On the “P” (photo) setting, Nightwatcher NW700 will take a series of digital photographs at a rate of 3 photos every second when the motion sensor is triggered

①		Start	②		YEAR Setting
③		MONTH Setting	④		DATE Setting
⑤		HOUR Setting	⑥		MINUTE Setting
⑦		VIDEO/PHOTO Setting	⑧		Finish

## Step 4. Viewing video

### 1. Viewing image by computer through a card reader (see fig. 13)

- Press the push button on the bottom of the unit for 3 seconds to disable the unit.
- Open the waterproofed cover on the Smart Tracker.
- Press OFF/REC button and take it out the Micro SD card within 30 seconds.
- To remove Micro SD card, push in Micro SD card to eject then pull out.
- When LED light turns green, meaning Micro SD card is being read, do not remove SD card or data may be lost.
- Press the push button on the bottom of the unit to set to normal operational mode.

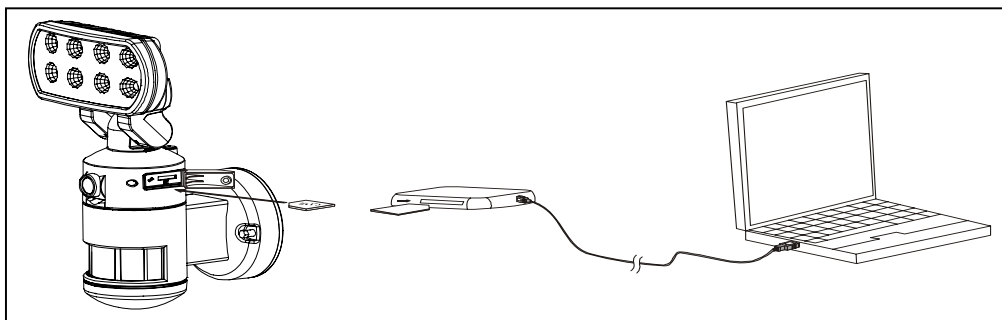


Fig. 13

## Technical Specifications

### 1. Features and specification :

- PIR detection angle 210 Deg and detection range up to 10M

- Records 20 seconds image recording for image stream: 10fps at 480 x 640 Pixels
- Built in Micro SD card slot for Micro SD memory card
- Micro SD card slot for additional storage, max memory size up to 2G
- Micro SD card spec.: FAT
- Automatic exposure control, white balance and sharpness
- Effective viewing angle : 60 deg
- Effective viewing distance: 8M
- Image format: JPEG AVI File
- Powered by AC 220V to 240V 50Hz
- 8pcs 1W Liteon super power white LED
- Auto light sensor.
- Lifetime of stepper motor: 20,000 times turning
- IP55
- Suitable for outdoors permanent use.
- Tested to the relevant AS/NZS standards

## **General Information and safety**

### **Special care instructions!**

- The Nightwatcher NW700 is designed to be weather resistant (IP55). Never attempt to immerse the unit in water or any other liquid. This will damage the unit and void the warranty.
- This product is designed to illuminate, video, and make verbal announcements. It will not prevent the commission of any act, legal or illegal. The manufacturer assumes no liability for any damage to property, injury to person, or death.
- Use a soft lens cloth for cleaning lens. Avoid touching lens with fingers.
- Remove dirt or stains with a soft cloth dampened with water or neutral detergent. Keep the Nightwatcher NW700 in a dry and cool dust-free environment or container when it is NOT used
- Do not open the Nightwatcher NW700 for unauthorized service. This could cause serious damage to the unit and will void the warranty.
- This Nightwatcher 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.

## **FCC Information**

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.

Warning: Changes or modification to this unit not expressly approved by the party responsible ofr compliance could void the user's authority to operate the equipment.

NOTE: This equipment as been tested and found to comply with the limited for Class B digital device, pursuant to Part 15 of the FCC Rules. Their 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 the 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 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.

## **FAQ (Frequently Asked Questions) Section**

### **Q. How many pictures does the SD card hold?**

A: The size in bytes of each 20-second video clip will vary depending on the amount of brightness, color, and movement in each video clip. The clips typically vary from 2MB to 8MB.

SD Card	File Size	Q'ty of File(approx.)
1G	2Mb	500
1G	8Mb	125
2G	2Mb	1000
2G	8Mb	250

### **Q. What happens when the card is full?**

A: Nightwatcher NW700 will automatically return to the oldest file and save over it each time a new video clip is stored. That means you don't have to take out the SD card unless you wish to review or save the video files.

### **Q. Can I transfer pictures from the camera via cable?**

A: No you can't. If your computer has an SD card slot, you may insert the SD card directly into the computer and access the files by going to My Computer and opening the removable for the SD card, which should appear when you insert the card. See Step 4 "Viewing video" in your instruction manual for details. If you don't have an SD card slot, you may purchase an SD card reader from any retailer that sells electronics. Once you have an SD card reader, simply insert the card into the reader and attach the reader to your computer using a USB slot (not included in this packaging), and access the data the same way as explained above.

### **Q. Can I view a live image of what the camera sees?**

A: No you can't. There is no USB port available with Nightwatcher NW700

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