

Aposonic CCTV

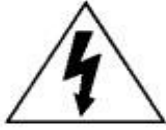
A-CDHT500 High Res PIR Camera

Color Camera

User Manual



Please read instructions thoroughly before operation and retain it for future reference.



CAUTION
RISK OF ELECTRIC SHOCK



CAUTION:

To reduce the risk of electric shock, do not expose this apparatus to rain or moisture.
Only operate this apparatus from the type of power source indicated on the label.
The company shall not be liable for any damages arising out of any improper use, even if we have been advised of the possibility of such damages.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



ROHS Announcement

All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste.



CE Mark

This apparatus is manufactured to comply with the radio interference.

The company does not warrant that this manual will be uninterrupted or error-free. We reserve the right to revise or remove any content in this manual at any time.

PRODUCT OVERVIEW

This H.R. PIR CCD camera is a motion-activated camera that incorporates a CCD Camera with a PIR motion sensor. It can be used as an accessory of an alarm system or a standalone monitoring device. You can also use this PIR camera to switch on a lamp when any movement is detected.

FEATURES

- 1/3" HR Color CCD with 500 TVL
- Minimum illumination of 0.6 Lux / F2.0
- Built-in pinhole lens: f3.7 / F2.0
- S/N ratio more than 48dB (AGC off)
- Easy to install, easy to use

PACKAGE CONTENTS

PIR Camera x 1	Jumper x 1
Screw & Wall Plug x 2	Power/Video Cable x 1
Plastic Bracket x 1	User's Manual x 1

CONNECTION

1. **DC12V Input Terminal:**

Connect the power connector of the camera to a 12V DC regulated power supply.

NOTE: Please use the correct power adaptor, DC12V (regulated), to operate this unit. The tolerance of this unit is $DC12V \pm 10\%$. Over the maximum DC12V power input will damage the video output connector (VIDEO OUT).

2. **VIDEO Output Terminal:**

Connect the camera video output to the monitor video input with a 75Ω coaxial cable.

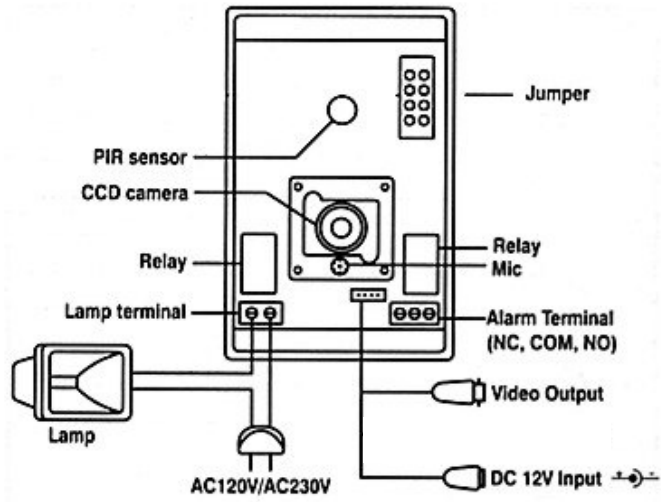
SPECIFICATIONS*

Pick up Element	1/3" HR color CCD image sensor
Number of Pixel	771(H) x 492(V) <NTSC> / 753(H) x 582(V) <PAL>
Resolution	500 TV lines
Min. Illumination	0.6 Lux / F2.0
S/N Ratio	More than 48dB (AGC off)
Electronic Shutter	1/60 (1/50) to 1/100,000 sec.
Lens	f3.7mm / F2.0
Lens Angle	90°
Video Output	1.0Vp-p composite, 75Ω
PIR Detection Range	100° with 10 meters and 2 meters high (at 25°C)
Lamp Control Loading	1,250W (max)
PIR Alarm Output	N.C./N.O., max loading 30Vdc, 0.5A
Power Source (±10%)	DC12V (Power adapter not included)
Current Consumption (±10%)	160mA
Dimension (mm)**	70(W) ×110(H) ×49(D)
Net Weight (g)	128.5

* Specifications are subject to change without any prior notice.

** Dimensional Tolerance: ± 5mm

PIR LAYOUT DESCRIPTION



BEFORE INSTALLATION

The PIR camera can be easily installed with its swivel bracket. Please refer to the following DO & DON'T before installation.

DO:

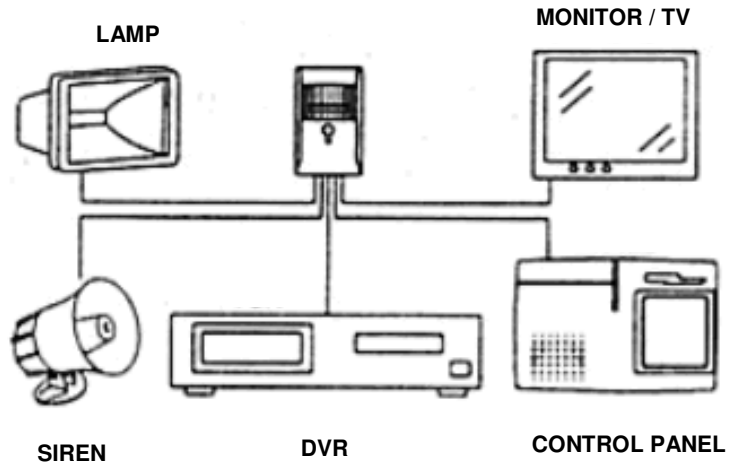
- Recommended to install in the way that motion “across” the detection zones than “toward” the unit.
- Recommended to mount on a stable surface which is not subject to vibration.
- Recommended installation height is 2 meters above the floor.

DON'T:

- Do not install outdoors. The device is designed for indoor use.
- Do not expose the device to direct sunlight.
- Do not install in the high humidity area (bathrooms, patios etc....).
- Do not install the device within neat glass doorways, in the locations where the air conditioner or fans are on, or near sources of heat, etc.
- Do not install near high power sources, such as refrigerators, televisions or generators.
- Do not install in the locations where obstructions (plants, screens, large pieces of furniture, etc.) may interfere with the pattern of coverage.

INSTALLATION & CONNECTION

- A. Open the front cover of the PIR camera.
- B. Lead the power/video cable through the access hole, and connect it to the terminal.
- C. Connect external devices (such as the alarm device, DVR, monitor, etc.) to their corresponding terminals. Please refer to page 4 for the wiring layout, and page 7 for the description of alarm device and lamp connection.
- D. Set the jumper. Please refer to page 4 for the wiring layout, and page 8 & 9 for jumper description.
- E. Replace the cover.



LAMP CONTROL & ALARM OUTPUT

Lamp Control:

Firstly, connect the lamp and the power to the lamp terminal of this PIR camera. When the sensor detects any movement, the lamp will be switched on through the relay.

Please note that the relay output can only support up to 5A/250V AC. If the power needed for the lamp is over 5A/250V AC, the lamp won't be switched on.

Alarm Output:

Three terminals, N.C., COM. and N.O., are provided to give users full choices of wiring configuration. Depending on the connected alarm device, you can connect to either N.C. and COM., or N.O. and COM. for the alarm to take effect.

For connection details, please refer to your alarm device user's manual.

DVR, monitors and sirens can be connected upon different applications, and the rating for this output is 30V max. / 5A max.

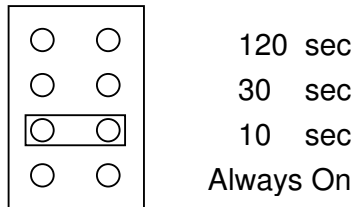
JUMPER CONFIGURATION

There are two ways for jumper configuration to control the active time of the video output and the alarm.

A. Insert Only One Jumper:

One jumper is already inserted at the default position (10 seconds). Choose the active time for the video output and the alarm, and insert the jumper to the proper position. The options are 120 sec, 30 sec, 10 sec and Always On. After that, when the PIR camera senses any movement, the video output and the alarm will be triggered and activated for at least as long as the time you've chosen.

Please see the following configuration as an example:



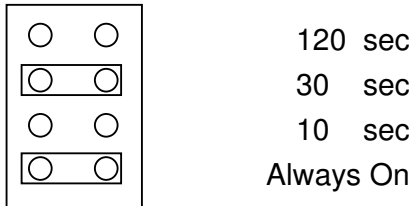
Apply the power and warm up for 30 seconds, and then the PIR camera will function normally. When any object comes into the detection area, the video output and the alarm of the PIR camera will be triggered and run for 10 seconds. If the object is still moving within the area after 10 seconds, the PIR camera will continue being activated until the object is out of the detection area.

B. Insert Two Jumpers:

You can also keep displaying the video output, but have different active time setting for the alarm.

For the active time of the video output, please choose "ALWAYS ON" position. At this time, the default active time of the alarm will be 10 seconds. If you want to extend the active time of the alarm other than 10 seconds, please insert another jumper supplied within the sales package into "30 sec" or "120 sec".

For example, if you need the video output to be always on and the alarm active time to be 30 seconds, you need to place one of the jumpers at "ALWAYS ON" position, and the other one at "30 sec" position as follows:



When any object comes into the detection area, the alarm will be triggered and run for 30 seconds. If the object is out of the detection area, the video output will be still working. However, the alarm is off.

WALKING TEST

After the PIR camera is properly installed, the walking test can be proceeded according to the following steps:

- A. Apply the power and wait for 30 seconds for the PIR camera to warm up.
- B. Check the video output and adjust the detection area.
- C. Walk across the detection area at the normal speed. The video output, alarm and lamp will be triggered and activated when the device senses any movement.
- D. If the video output, alarm and lamp do not work as expected, please check the wiring configuration and do step C again.