Eyecon has been designed to make installation as quick and simple as possible-
no soldering, no complicated wiring-using our simple plug and go system. Eyecon is designed to
enable you to see, hear and talk back to any chosen camera location-even in total darkness using
Eyecon's separate infra red illuminator.

## Eyecon Package

One tinted polycarbonate external housing camera cover.

One camera back plate.

One camera.

One TV set top switching unit.

One Infra red remote control handset.

One Infra red illuminator unit.

Accessory/Cable Pack (60 feet camera cable, Phono AV fly lead, Coaxial fly lead,
3 fixing screws with wall plugs, fixing kit, self adhesive tabs and power supply).



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# IMPORTANT SAFETY INSTRUCTIONS.

1) Read these instructions carefully before use.

2) Keep these instructions in a safe place for future reference.

3) Heed all warnings

4) Follow all instructions

5) Do not use the apparatus near water, the cameras and infra-red illuminators must only be used in outdoor locations in conjunction with the external housing supplied.

6) Clean only with a damp cloth.

7) Install in accordance with the manufacturers instructions.

8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

10) Only use attachments/accessories specified by the manufacturer

11) Unplug this apparatus during lightning storms or when unused for long periods of time.

12) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

⚠ **WARNING.** No user serviceable parts inside. Enclosure provides protection against the risk of fire

FCC ID: XXX-EYE01USMRW

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
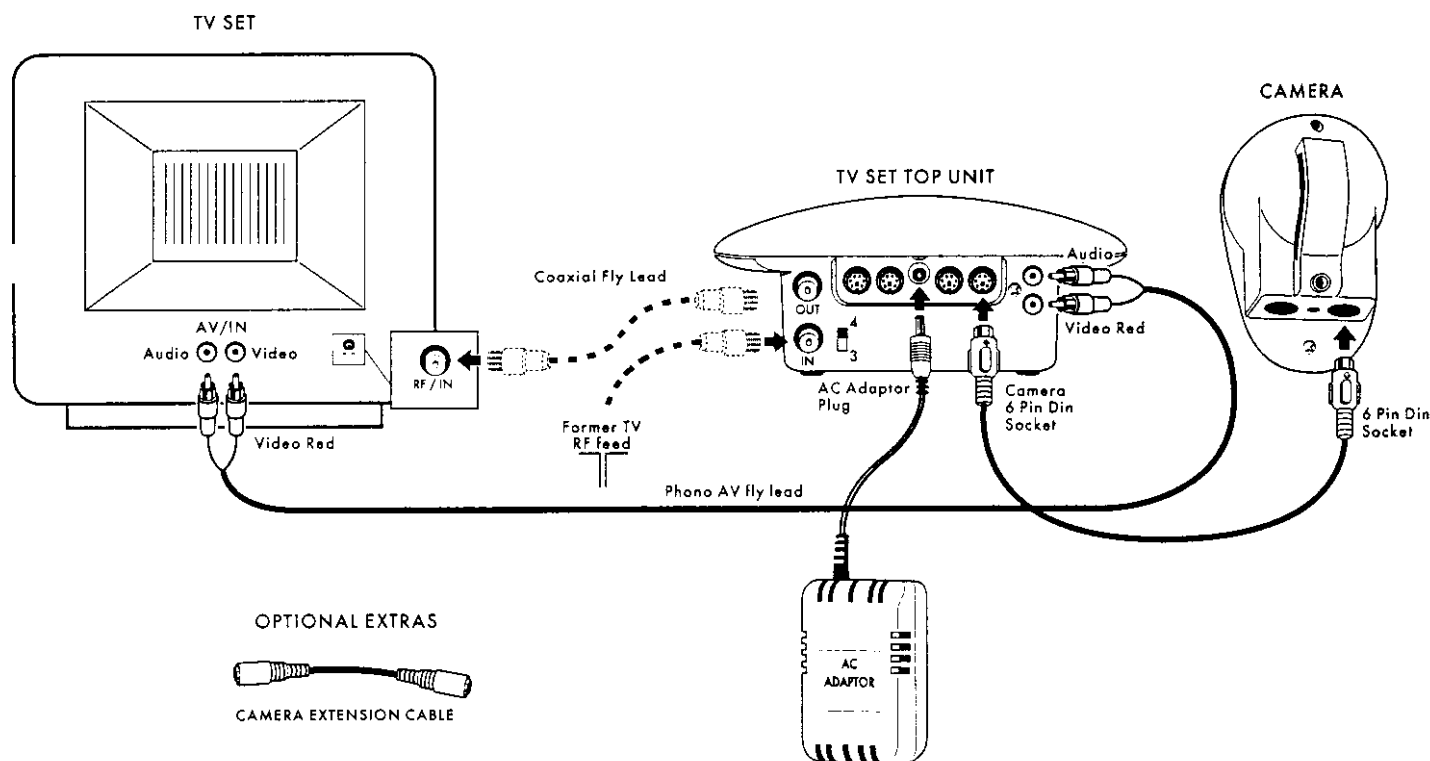(2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.'

# Installation and Testing

Before permanently fixing your Eyecon it is advisable to connect your system up and use the live system to help determine the best location for your camera.

**✿ Step 1** - Plug one end of the 60 foot camera cable into the **6 pin** mini DIN socket on the camera (DO NOT attempt to plug this connector into the **4 pin** mini DIN socket next to it) Plug the other end into one of the camera sockets on the back of the set top unit. Ensure that plugs and sockets are correctly aligned before applying pressure to avoid damaging the pins.

If you intend to use Eyecon with a VCR proceed to 'Using Eyecon with a VCR' and Step 5.



**✿ Step 2** - Connect one end of the phono AV fly lead to the Audio and Video connectors on the set top unit, using the Red plug for Video. Connect the other end of this lead to an available AV input on the TV.
Alternatively, if your TV set has no spare AV input available, you can use the coaxial fly lead provided. Remove the RF input connector from your TV and connect it to the RF- in on the Eyecon set top unit, use the coaxial fly lead to connect RF- out on the set top unit to the RF connection on your TV. Use the channel selector switch on the set top unit to select the TV channel (3 or 4) you prefer for your Eyecon, if you have an external cable adapter or other equipment using channel 3 or 4 it is advised that the same channel be used for the Eyecon for ease of operation.

**✿ Step 3** - Plug the power supply fly lead into your set top unit and plug the power supply into a mains outlet, the red indicator light on the set top unit will illuminate. (Note: The set top unit will emit a periodic beeping if there is no camera connected).
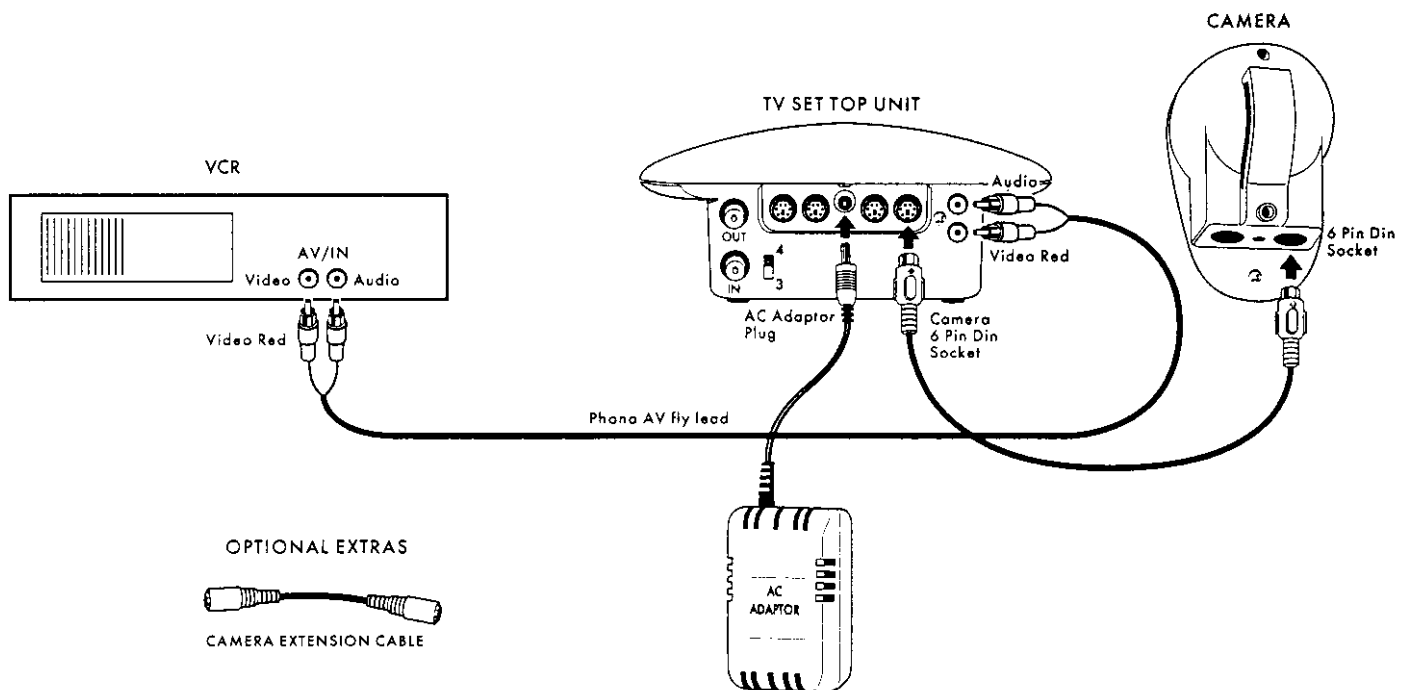
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**⚡Step 4**- Turn on the TV, this should function as normal. Selecting the AV input used for the Eyecon should cause pictures from the camera to become visible. Note that audio should also be present from the microphone in the camera, if the camera is close to the TV at this stage the volume on the TV will have to be kept low to avoid howl-round. If you are not using an AV input select the TV channel corresponding to the setting on your Eyecon. Pressing CH on the remote control will cause the pictures and sound from the camera to be displayed, the green indicator light on the set top unit will illuminate to show that the unit is sourcing a signal from its RF output. Pressing CH again will cancel the camera RF signal and the TV will revert to normal viewing.

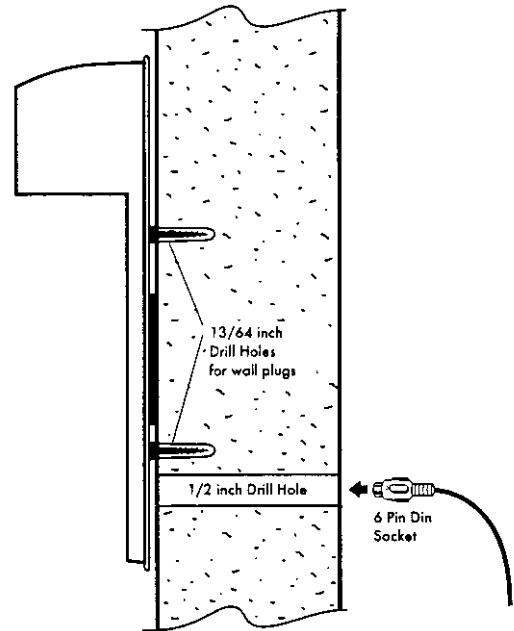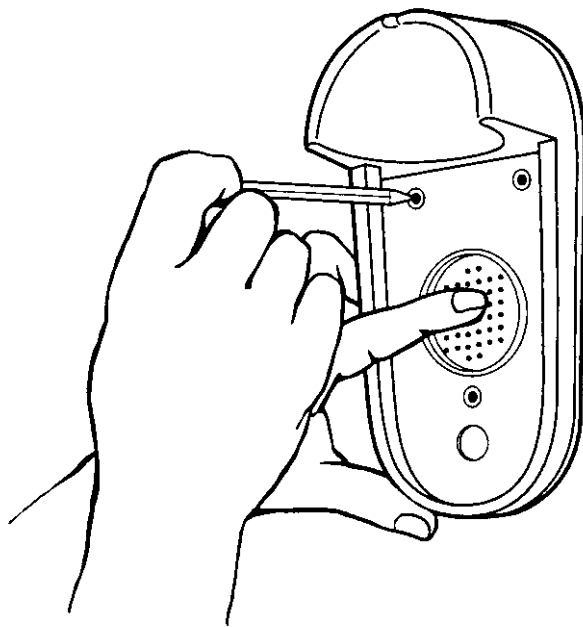Proceed to step 8

## Using Eyecon with a VCR



**⚡ Step 5**- Connect one end of the phono AV fly lead to the Audio and Video connectors on the set top unit, using the Red plug for Video. Connect the other end of this lead to an AV input on the VCR.

**⚡ Step 6**- Plug the power supply fly lead into your set top unit and plug the power supply into a mains outlet, the red indicator light on the set top unit will illuminate. (Note: the set top unit will emit a periodic beeping if there is no camera connected).
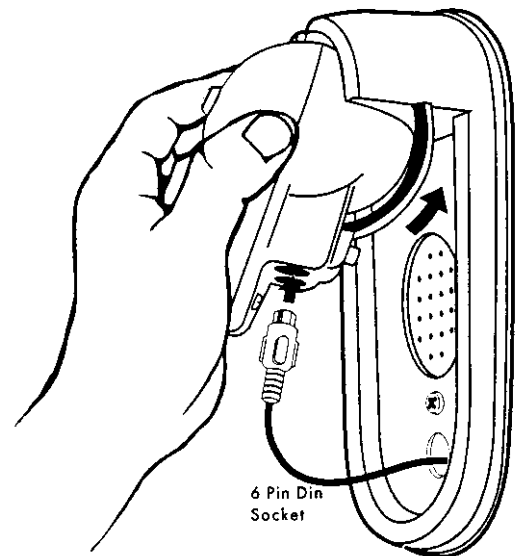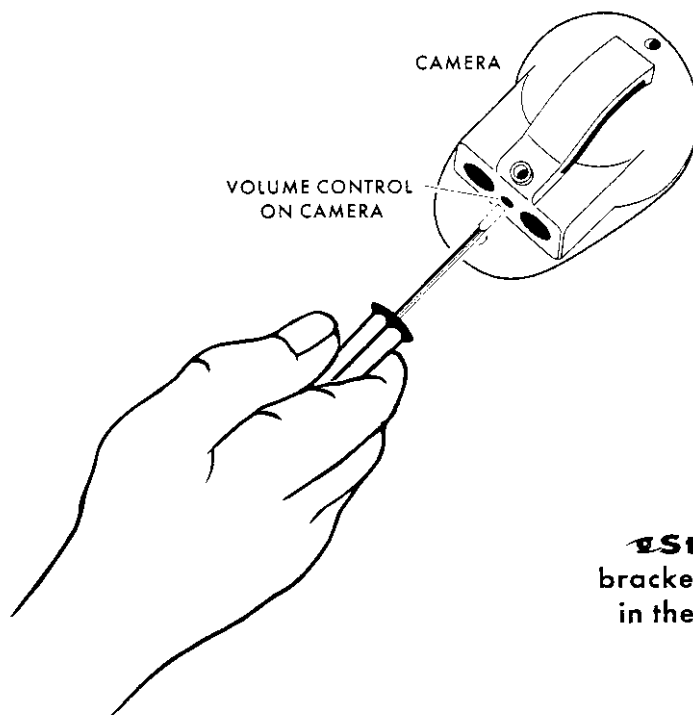
**⚡Step 7**- Turn on the TV, this should function as normal. Select VCR on the TV and select the AV input used by the Eyecon set top unit on the VCR, pictures from the camera should now be visible. Note that audio should also be present from the microphone in the camera, if the camera is close to the TV at this stage the volume on the TV will have to be kept low to avoid howl-round.
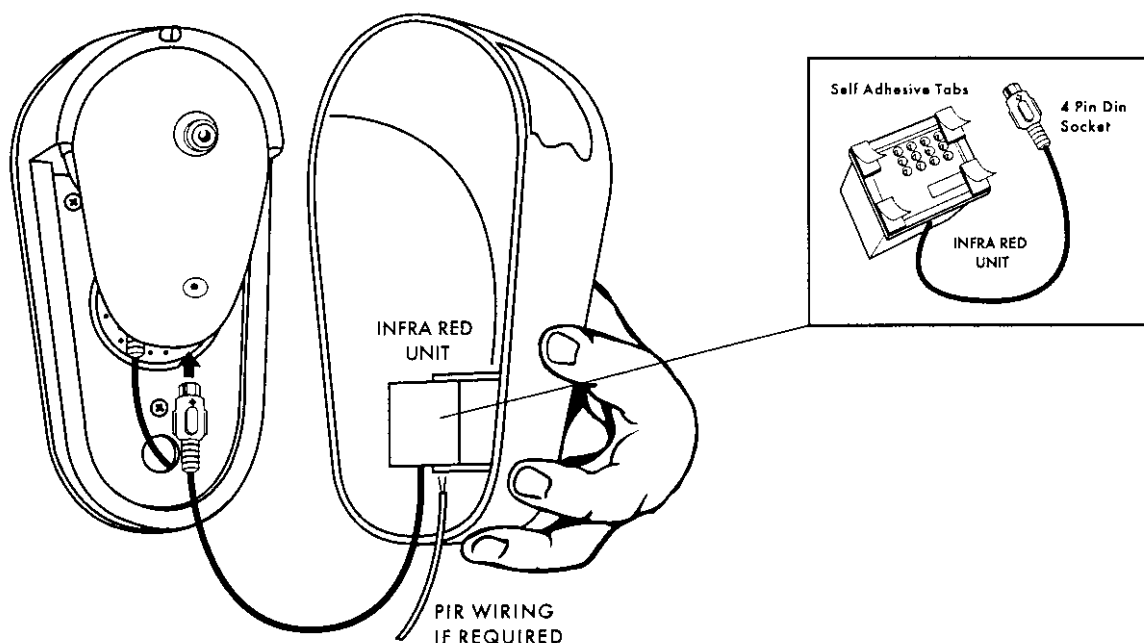
**eyecon**

13/64 inch
Drill Holes
for wall plugs

1/2 inch Drill Hole

6 Pin Din
Socket

**Step 8**- You are now ready to position the camera in the desired location, whilst viewing and checking the picture on your TV. Having confirmed the ideal position, mark the back plate holes for fixing and drill a 1/2 inch hole for the camera cable to run inside of your property. (Before pushing the cable through, cover the plug end with insulating tape to prevent damage to the connector pins). Run the camera cable back to the set top unit and carefully re-plug it in.
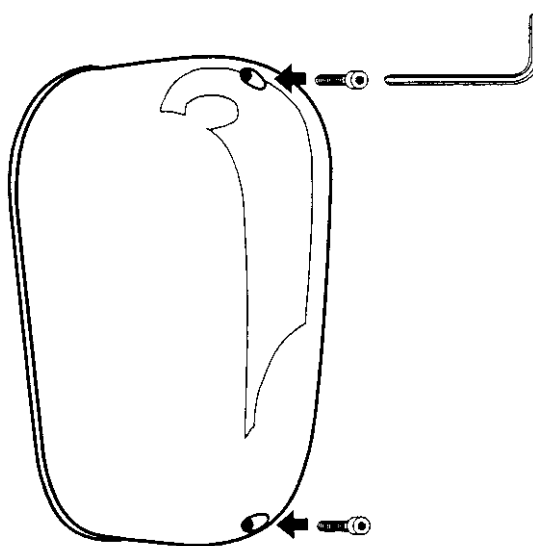
**Step 9**- Use volume control on camera module to set level of sound from camera speaker at final location to appropriate level. You may wish to temporarily slide over the polycarbonate external cover to check the setting.

CAMERA

VOLUME CONTROL
ON CAMERA

6 Pin Din
Socket

**Step 10**- Slip the camera on to the back plate bracket and connect the camera cable to the din socket in the camera and set the camera to your previously chosen viewing angle.
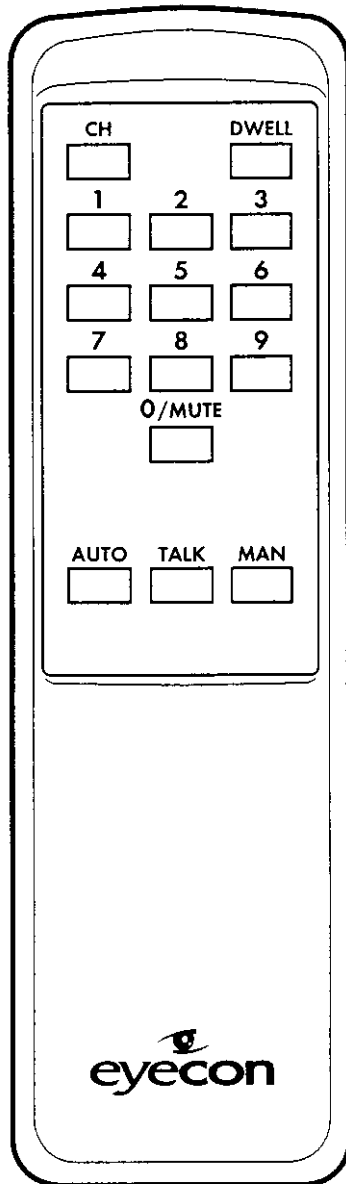
# evecon

**Step 11** - It is now time to set and install the infra red illuminator unit. Plug the infra red illuminator into the **4 pin socket** on the bottom of the camera. The infra red unit will now be powered and switched on. (This illumination is invisable to the naked eye, but will be clearly seen when you use your camera at night). Fix the illuminator to the inside of the tinted polycarbonate dome using the enclosed sticky pads. Point the illuminator in the same direction as your camera setting.



**Step 12**- Carefully place the polycarbonate external housing over the back plate and fix with the two stainless steel hex head screws, using the wrench supplied.

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INFRA RED
REMOTE CONTROL

```
 CH        DWELL
[   ]      [   ]
  1    2    3
[   ] [   ] [   ]
  4    5    6
[   ] [   ] [   ]
  7    8    9
[   ] [   ] [   ]
     0/MUTE
      [   ]

AUTO  TALK  MAN
[   ] [   ] [   ]
```

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**Repeat these instructions if you are installing more than one camera.**

## EYECON REMOTE CONTROL OPERATION

**Automatic mode for switching between multiple cameras.**

1. Press and hold "Dwell" key until the set top unit beeps once (approx. 2.5 seconds).
2. Key in the required two digit time in seconds (ie. 01 - 99)
3. The unit will acknowledge that the time is set by beeping twice.
4. If the unit only beeps once redo from start.

## To enter automatic switching mode.

1. Press the AUTO key to enter this mode.
2. The unit will automatically sequence between all available cameras remaining on each camera view as per the "dwell" time set above.

## To enter manual switching mode.

1. Press the MAN key to enter this mode which cancels automatic switching mode.
2. The unit will manually sequence to the next available camera at each subsequent press of the MAN key.

## To speak to any chosen camera location

1. Press and hold the "Talk" key while you are speaking.
2. Release the "Talk" key to hear the reply from the camera unit.

**NOTE: If the unit is in automatic mode, pressing the "Talk" key will pause the camera switching and remain on the currently selected camera until the "Talk" key is released.**
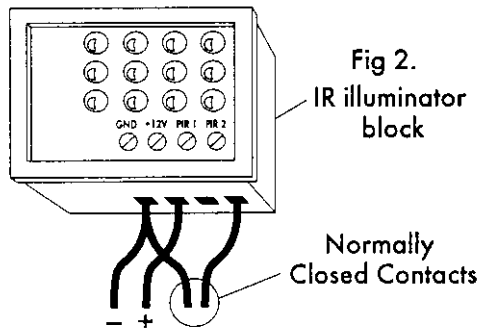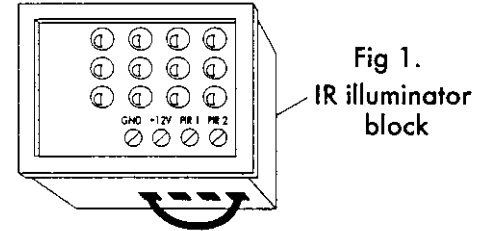
**Connection of an optional PIR detector**

*If a suitable PIR detector is connected to any chosen camera via the screw terminal on the Infra Red Illumminator, activity in that area will trigger that camera to be selected by the switching unit. An audible alarm will also sound and the LED will flash, signalling activity at the camera location. Pressing the "Mute" button will turn this sounder function on or off.*

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# INSTRUCTIONS for use of PIR Scew Terminal on IR illuminator block.

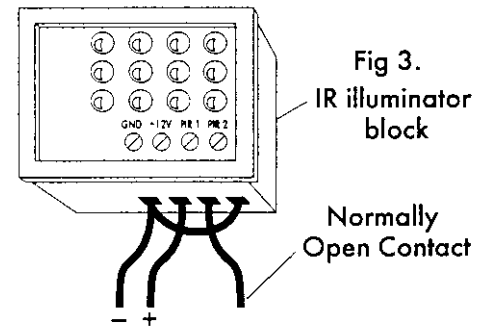*Two types of PIR are supported by the Eyecon unit, normally closed and normally open.*

If **No PIR** is fitted; the screw terminal should be connected with a link wire between GND and PIR2 as Fig 1.

Fig 1.
IR illuminator block

Fig 2.
IR illuminator block

For a **Normally Closed** type PIR; remove the wire link and Connect the Normally Closed connections of the PIR across GND and PIR2 as Fig 2.
The positive and negative supply rails for the PIR should then be connected to +12V and GND respectively.

Normally
Closed Contacts

For a **Normally Open** type PIR; leave the wire link in place and connect the Normally Open connections of the PIR to PIR1 as Fig 3. The positive and negative supply rails for the PIR should then be connected to +12V and GND respectively

Fig 3.
IR illuminator block

Normally
Open Contact

Please note that the Eyecon PSU (power supply unit) is capable of supplying a maximum total current of 100mA for PIR's.
Therefore the maximum current taken by a single PIR is dependent on the number of PIR's fitted - as shown below:

| No. of PIR's | Maximum current consumption per PIR |
|---|---|
| 4 | 25mA |
| 3 | 33mA |
| 2 | 50mA |
| 1 | 100mA |

The Eyecon unit should only be used with PIR's designed for use with a 12V supply and a maximum current as outlined above.

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## CARE & CLEANING

To ensure that you get the best from your Eyecon system, just wipe the Dome and TV Set Top Unit with a soft damp cloth. DO NOT use solvents or cleaning fluids of any kind.

*We welcome your comments, please write to us at the freepost address below:*

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