

## Internal PIR Cameras

This range of covert cameras built into PIR detectors will be suitable for most covert applications. There are three models in the range, the CCT600 with a black & white camera fitted in a dummy PIR, the CCT605, a black & white camera fitted in a working PIR and the CCT646, a colour camera fitted in a working PIR. Both working PIRs also have an optional in-built microphone. Each model comes with a board camera with pinhole lens and the view is adjustable by moving the PIR case on its mounting bracket horizontally or vertically.



### Models Covered in these instructions

CCT600 Black & White Camera in Dummy PIR

CCT605 Black & White Camera in Working PIR

CCT646 Colour Camera in Working PIR

Camera Spec	B&W CCT600	B&W CCT605	Colour CCT646
Image Sensor	1/3" B&W CCD	1/3" B&W CCD	1/4" Colour CCD
Image Output	1V <sub>pk-pk</sub> 75Ω	1V <sub>pk-pk</sub> 75Ω	1V <sub>pk-pk</sub> 75Ω
Resolution	400TVL min	380TVL min	350TVL min
Min Illumination	0.3 Lux, F2	0.5 Lux, F2	1 Lux, F2
Input Voltage Range	12V DC±10%	12V DC±10%	12V DC±10%
Power Consumption	120 mA	190 mA	190 mA
Lens	3.7mm pinhole lens (67°)	3.7mm pinhole lens (67°)	3.7mm pinhole lens (67°)
Description	Dummy PIR & bracket	Working PIR NC/NO	Working PIR NC/NO
Fly lead	Power & Video	Power, Video & Audio (opt)	Power, Video & Audio (opt)
Size, H x W x D	120mm x 65mm x 45mm	110mm x 70mm x 49mm	110mm x 70mm x 49mm
Alarm Output	N/A	N.C./N.O. max 30vDC, .5A	N.C./N.O. max 30vDC, .5A
PIR Detection Range	N/A	100° with 10 meters at 25°C	100° with 10 meters at 25°C
Lamp Control Loading	N/A	1,250 Watts (max)	1,250 Watts (max)

### Mounting the PIR Camera

Each model contains a camera board with a pinhole lens that fits snugly into a tiny hole in the front of the PIR case. The camera's view is adjusted by moving the PIR case on its mounting bracket horizontally or vertically. It is recommended to fit this PIR camera so that it points across the PIR detection zones and that it is fitted approximately two metres from floor level. Avoid fitting the PIR camera on an unstable surface or one liable to vibration. The PIR camera is for indoor use only and should not be installed in bathrooms or patios subject to high humidity. Also avoid fitting in direct sunlight, glass doorways and near sources of heat such as radiators or fan heaters etc.

### Powering the PIR Camera

The CCT600 PIR camera requires a 12V DC regulated power supply. The CCT605 and CCT646 require a 12 volt DC regulated power supply. The PIR cameras are provided with a fly lead with a mini power jack plug. It is recommended to use a power supply that is rated higher than the current consumption of the camera i.e. POW100 would be adequate for powering a single camera but when powering more than one you should look at the bigger power supplies to prevent the PSU from running at its maximum rating for long periods of time. If you are using the Easy Connection Kit (CCT806/7) to power and connect your camera (12V models only) please proceed as per the instructions supplied with The Easy Connection Kit.

### Connecting the camera to control equipment.

The CCT600 PIR camera comes with a fly lead for power and video out. The CCT605 and CCT646 also have an optional audio connection. To reduce installation time the video out lead is terminated into a male BNC connector.

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**CCT600/605/646 PIR Camera INSTRUCTIONS**

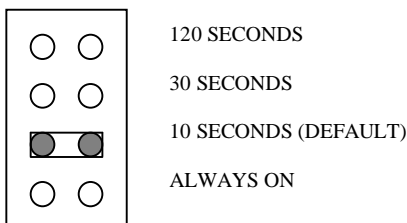
This allows the installer to effortlessly connect the camera to control equipment via a female BNC-BNC lead. Remember that the Video out from the camera is like any other electrical circuit and requires two wires to complete the circuit. When using a co-ax type cable such as RG59 or similar, the outer braid of the co-ax provides the "0V GROUND" connection and the inner core provides the "Video" connection. The audio connection on the CCT605 and CCT646 is provided via a phono socket.

**Walk Test (CCT605/CCT646 only)**

After installing the camera you should attempt a walk test. Now power up the unit and wait for thirty seconds whilst the PIR camera warms up. Check that you have a monitor connected and powered up. If you now walk across the PIR detection zones at normal walking speed the video and alarm control signal should be triggered.

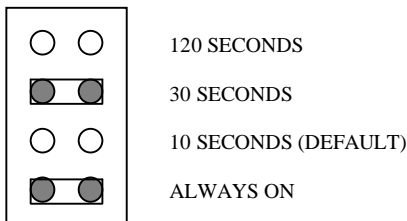
**Jumper Configuration (CCT605/CCT646 only)**

When the PIR is triggered, it is active for 10 seconds only. This is the default setting. The video camera and the alarm control time are activated for 10 seconds. The default setting can be changed to 30 seconds, 120 seconds or Always On by moving a jumper connection in the PIR camera. The jumper is located in the top right hand corner inside the PIR case.



NOTE: The jumper setting on the left is the default setting and switches both the video and alarm trigger on for 10 seconds.

If you need the video to be always on with a timed alarm trigger then see below.



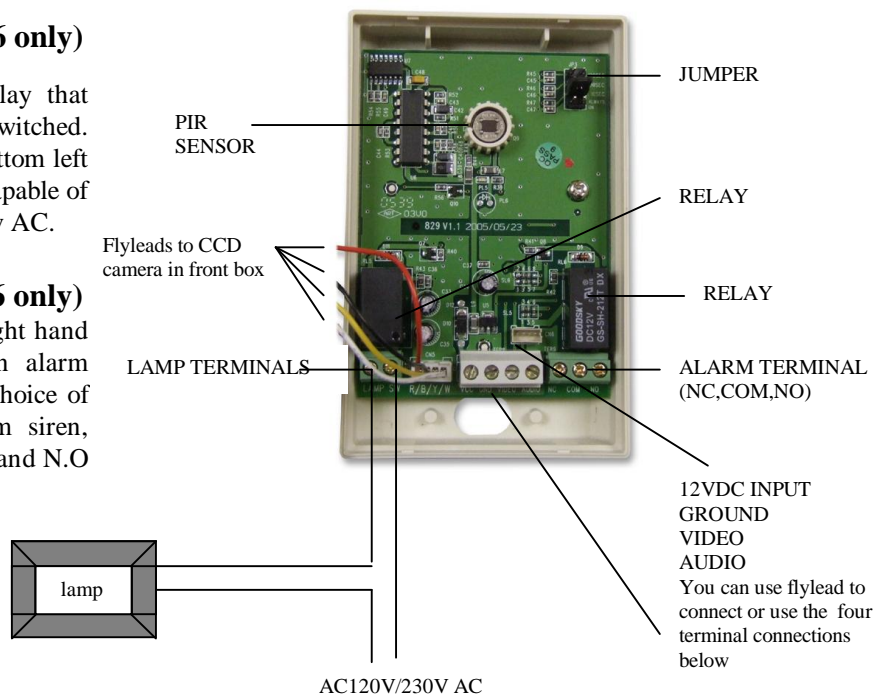
NOTE: If for example you want the trigger alarm for thirty seconds, but video to be always on, you will need to add the second jumper included, at the Always On position.

**Lamp Control (CCT605/CCT646 only)**

The PIR cameras have an in-built relay that allows a lamp of up to 1250 watts to be switched. The lamp terminals are located in the bottom left hand corner of the PIR and the relay is capable of switching a lamp drawing 5Amps at 250v AC.

**Alarm Output (CCT605/CCT646 only)**

Three terminals located in the bottom right hand corner of the PIR are provided as an alarm output. A relay allows switching of a choice of applications e.g VCR, monitor, alarm siren, DVR etc. The terminals are N.C., COM and N.O with a rated output of 30V max at 5Amp.



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