Camtraptions PIR Motion Sensor v3
Video Mode Manual

Firmware Version 2.2

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## Connecting Camera and Lights

To connect a camera to the sensor with a wire, remove the bung in the socket on the bottom of the sensor and plug in the camera connecting cable. Connect the other end of the cable to your camera's shutter release socket.

To connect a camera wirelessly:
- Ensure you know which channel the PIR transmitter is set to.
- Set the Camtraptions Wireless Receiver to the corresponding channel.
- Connect the camera connecting cable to the "Camera" socket on the receiver and the other end to the camera's shutter release socket.

To connect video lights, we recommend using a wireless receiver for each light switch. The light switch will be activated by the same signal as the camera (unlike still photography, it is not necessary to have a separate transmitter on the camera to activate the lights). Refer to the light switch manual to find a program that corresponds to the Video Program from the PIR.

Program Selection
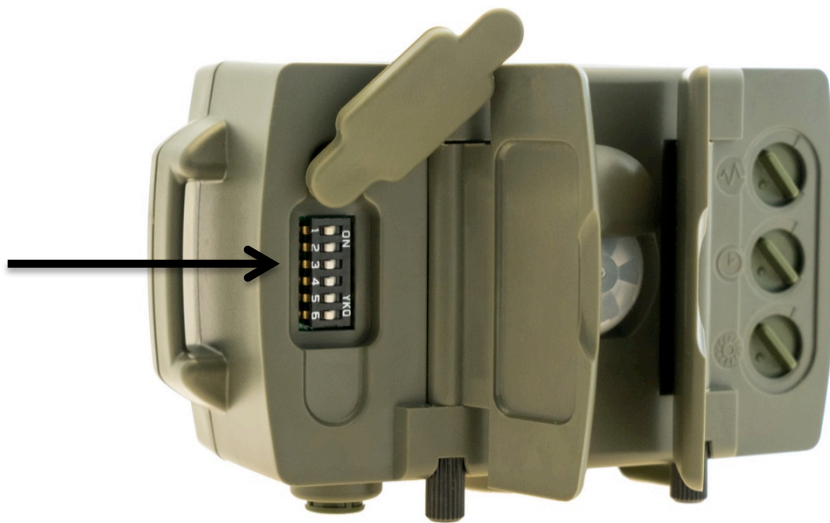
Programs are set via switches 1 to 6 on the front of the device. These switches are located under the watertight bung, behind the flap, to the left of the sensor dome.

Switch 1 & 2: Day & Night Cut-off

Switch 1 and 2 can be used to disable operation during the day or at night. When both switches are in the Off position, the sensor will operate all of the time.

When switch 1 is On, the sensor is disabled when the ambient luminosity is above the threshold set by the luminosity dial.

When switch 2 is On, the sensor is disabled when the ambient luminosity is below the threshold set by the luminosity dial.

When both switch 1 and 2 are On, the sensor triggers a camera via the wired connection all of the time but the wireless transmitter is disabled during the day. This makes it possible to disable wireless lights during the day but have a wired camera active at all times (i.e. natural light during daylight and artificial light at night).

Here is a summary of this behaviour:

> Switch 1 and 2 Off: Regular operation with no luminosity cut-off
> Switch 1 ON: Disables daytime operation
> Switch 2 ON: Disables nighttime operation
> Switch 1 and 2 ON: Disable wireless transmitter during the day

Switch 3: Extend Video Recording Time

When Switch 3 is Off, the video length is set by the time dial and the length of each clip will not vary.

When Switch 3 is On, the video length is extended if motion is detected while the camera is recording. Thus the camera will keep recording while a subject is moving within the field of view of the sensor.

Switches 4 to 6: Video Program

Switches 4 to 6 set the Video Program. A program should be selected to match the camera in use. There are 8 programs in total. These are selected according to the table below:

Program	Switch 4	Switch 5	Switch 6
1	off	off	off
2	off	off	on
3	off	on	off
4	off	on	on
5	on	off	off
6	on	off	on
7	on	on	off
8	on	on	on

Program 1 – 3: Sony

These programs are for use with Sony cameras and the Camtraptions Sony Multi Cable set to Mode 1.

In Program 1 the camera will commence video recording when motion is detected.

Program 2 has a quicker response time: the camera will commence video recording approximately 0.2s faster than in Program 1, but the PIR battery life will be approximately halved.

Program 3 is the same as Program 2, except the sensor will send a periodic "wake" signal on the wireless channel to prevent equipment sleeping.

Program 4 – 6: Full press to start and stop

These programs are compatible with any camera that can be configured to commence video recording with a full-press of the shutter button and to end recording with a second full-press.

In Program 5, the camera will commence video recording approximately 0.2s faster than in Program 4, but the PIR battery life will be approximately halved.

Program 6 is the same as Program 5, except the sensor will send a periodic "wake" signal on the wireless channel to prevent equipment sleeping.

Program 7: Half press to start and stop

This program is compatible with cameras that can be configured to commence video recording with a half-press of the shutter button and to end recording with a second half-press. Specifically, this is for Canon cameras with the Magic Lantern firmware installed. These programs are for use with Canon cameras that have the Magic Lantern firmware installed. They require the Magic Lantern function enabled that starts/stops video recording with a half-press of the shutter button. Please note that this function is not available in all versions of Magic Lantern.

Program 8: Wake up first

This program is compatible with cameras that can be configured to commence video recording with a full-press of the shutter button and to end recording with a second full-press. It similar to Program 4, except this program adds a wake up delay of approximately 4 seconds prior to the recording commencing. Some cameras require this wake up period before they will register the "start recording" signal.

Time Dial

Time dial sets video length from 5 seconds (fully anti-clockwise) to 1 minute (fully clockwise). If Switch 3 is on then the video length is extended when additional motion is detected so the clip duration is effectively unlimited.

Luminosity Dial

If a day/night cutoff is not set, the luminosity dial can be used to configure the gap between subsequent recordings from 1 second (fully anti-clockwise) to 1 minute (fully clockwise).

This is true in all programs except Program 8, where the luminosity dial can instead be used to fine-tune the wake time from between 0.25s (fully anti-clockwise) to 10s (fully clockwise).