gentWIRE-THERMAL

TETRACAM 2.5mm jack interface

This device interfaces a single RC receiver channel to one of Tetracam's ADC range of multi-spectral digital cameras with 2.5mm jack remote control.

Configuration

First connect the 3pin servo lead to an unused channel of the RC system. You can test operation now (with the camera lead not connected). When the RC system channel is moved a yellow light should be seen on the unit. Set up the RC transmitter so this light illuminates when you want the shutter pressed.

Second connect the 2.5mm jack to the Tetracam camera.
NOTE: For the system to work properly the RC system AND the Tetracam must share the same ground / battery negative. If your system doesn't already have this connection a loose black wire is provided. Connect this to the camera ground or camera battery –ve.

Operation

There are three lights on the gentWIRE-THERMAL for Tetracam:

1. RED: Camera busy, it will not take a photo
2. GREEN: Camera ready, it will take a photo if commanded by RC
3. YELLOW: Taking a photo. This only happens if "Camera ready"

Movement of the RC transmitter stick (or switch) will trigger a photo. Return the stick after triggering, leaving the stick in the trigger position will cause multiple photo captures every time the "Camera busy" light cycles.

Joy-sticks

It is recommended that a RC Transmitter channel is used that has a switch (sometimes called AUX channels) for reliable operation. These can usually be configured to give repeatable signals (e.g. 0 and 100% of travel) for reliable noise-free operation of gentWIRE-THERMAL.

Specification

Supply Voltage	3 to 5.5V. Operation is not guaranteed <3V). (absolute maximum voltage, 6.5V)
Supply Current	Average 20mA (LED dependant)
Servo Pulses	Unit triggers above 1.6mS. Supply V +- 0.7V.
Weight	6 grams including 250mm wires & connectors.

Diagnostics

Replace the device with standard servos on the RC receiver and make sure the servos are moving as expected. A good 80-90degrees of servo movement will provide a solid signal for gentWIRE-THERMAL

Disconnect the camera connector – the Yellow light will indicate whether the RC system is triggering the unit correctly.

Check that the battery –ve on the RC Receiver and Camera are both connected together.