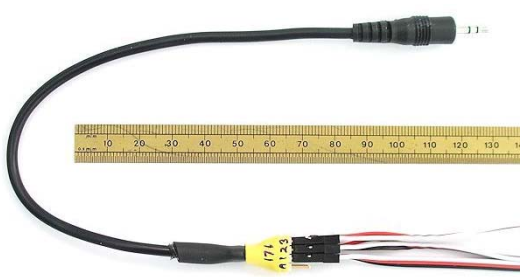
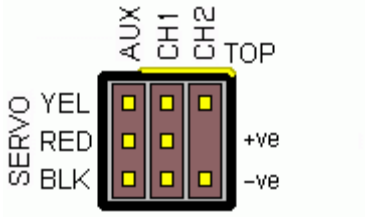
gentWIRE-LANC



This device interfaces a Camcorder with a 2.5mm jack LANC interface (Sony, Black-magic, and some Canon models) with a RC receiver. Up to 2 RC channels can be used, controlling REC, PHOTO & **progressive** ZOOM.



Operation

1. Connect the 3pin connector CH1 to a standard RC Receiver Servo output: +ve to Red, –ve to BLK, servo to white.
2. If using the second channel, connect CH2 with +ve missing to prevent power-supply issues to a second RC channel.
3. Connect the LANC connector to the Camcorder LANC port.

Movement of the RC CH1 Transmitter stick from one extreme to the other will operate the zoom progressively faster as the stick is pushed over.

If the channel RC CH2 is used then with the stick at one extreme the camcorder will stay in STBY. At the other extreme it will stay in REC. Moving the stick momentarily to the centre will capture a PHOTO. This operation guarantees the camera stays in REC – even if the REC key on the camcorder is accidentally pressed by an operator.

With the LANC system, only one signal can be sent to the camera at a time, in order for a REC or PHOTO command to be successfully sent the camera must **not** be zooming in or out.

If the camera goes into sleep mode it can be woken up remotely by sending any signal (ZOOM, REC or PHOTO) from the RC system. The first signal sent wakes the camera, subsequent commands will be actioned. This is a useful power-saving feature for remote cameras.

Advanced Operation

When RC Ch2 is in use Camcorder telemetry is sent out on the AUX port.

gentWIRE-lancLED provides a visual indication of Camcorder REC status via an ultra bright red LED

gentWIRE-lancAUDIO provides an audio indication of Camcorder status designed to be relayed via an audio channel of a video downlink. Different tones tell the operator about REC, Low Memory, Low Battery, and whether the camera is operational.

Joy-sticks & Power-down

It is recommended that the zoom use a standard joy-stick, however the second channel can be configured to operate from transmitter switches, see the transmitter manual for configuration details.

To prevent LANC switching on the camera when not in use, unplug the LANC connector, or power down in this sequence: Camera to STBY, switch off camcorder, then switch off RC receiver system & gentWIRE.

Intervalometer Mode

The unit can also be used as a simple intervalometer to trigger PHOTO. Apply power to the 3wire servo connector RC Ch1 but do not connect the yellow/white wire. The unit will trigger the camera to take a PHOTO every 5 seconds. Change the period to 10seconds by shorting the Ch2 pin to ground.

Specification

Supply Voltage	3 to 5.5V. Operation is not guaranteed <3V). (absolute maximum voltage, 6.5V)
Supply Current	Average 1mA
Servo Pulses	Zoom operates between 1.1 and 1.9mS. REC and REC pulse threshold around 1.25 and 1.75mS, Pulses should be < Supply V +- 0.7V.
Weight	8g with 20cm cable + 2g per 15cm servo lead.