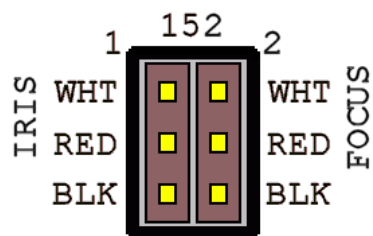
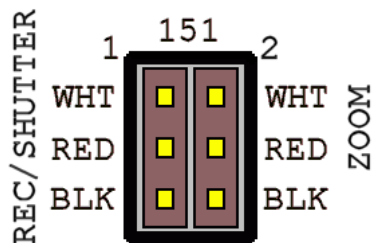




These device controls Cameras and Camcorders with the Panasonic jack plug interface.

The basic device uses 2 RC channels controlling ZOOM, REC, and SHUTTER. A second device can be added on some cameras (using a further 2 channels) to control FOCUS and IRIS.



Basic Operation

Orient the 2x3 connector - the top is marked with **151** or **152**. Connect either or both inputs to spare channels on a standard RC receiver. Connect the 2.5mm jack (151) or 3.5mm jack (152) to the camera. Both channels (on 151 and 152) should be left in the idle / centre position.

151 REC / SHUTTER and ZOOM (2.5mm jack)

Movement of the RC CH1 Transmitter stick to one extreme to trigger REC, return to the centre. Move in the other direction to half-press then full-press the shutter, return to the centre. Movement of RC CH2 controls the proportional zoom. The further the stick moves the faster the zoom. Note: For operation with Panasonic GH4 type cameras the zoom only works with "X" series motorised zoom lenses.

152 IRIS and FOCUS (3.5mm jack)

CH1 controls IRIS and CH2 controls FOCUS. Both behave in a similar way. Movement of the stick around the centre will change the Iris and

focus manually. To switch to automatic mode, move the stick to any extreme and leave it in that position.

Notes on Compatibility

Whilst Camcorders usually have 2 sockets allowing full control with 151 and 152, cameras like the GH4 only have one port allowing control over ZOOM, REC, and SHUTTER only.



In addition Panasonic Cameras (like the GH4) can only control zoom if using the "X" series lenses with motorised zoom control.



Specification

Supply Voltage	3 to 12V. Operation is not guaranteed <3V>. (absolute maximum voltage, 15V)
Supply Current	< 1mA up to 6volts, rising to 14mA at 12volts
Servo Pulses	Centred around 1.5mS, 1.1 and 1.9mS are the limits of ZOOM or to trigger automatic FOCUS or IRIS. Pulses should be < Supply V +/- 0.7V.
Weight	9g with 20cm cable + 2g per 15cm servo lead.

Diagnostics

Check the RC system is sending the correct signals by using a standard servo instead of gentWIRE-panaJK. The servo should be centred and move 40-45degrees in either direction when the joystick is used.

You may intend to use "AUX" switches on your RC Transmitter, but test with joystick channels first to confirm operation.

Remember, only some lenses are compatible with Panasonics bridge cameras like the GH4. Cameras prior to GH4 are not compatible!