

# gentWIRE-lancMAX

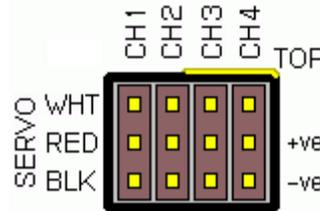


This device controls a Camcorder with a LANC interface via a RC receiver. Typically it is compatible with Sony and Blackmagic models. Up to 4 RC channels can be used, controlling REC, PHOTO, FOCUS, IRIS & ZOOM. Any number or combination of channels can be used.

## Basic Operation

Orient the 4x3 connector - TOP is marked with the **REF** number and channel **RFIZ (1234)**:

1. Connect 3pin connector CH1/2/3/4 to a standard RC Receiver. Servo output: +ve - **Red**, -ve - Black, servo - Yellow/white
2. When using multiple RC channels make sure the power-supply is common to prevent shorting supplies. Alternately use servo leads with +ve missing, only one channel is required to power the unit.
3. Connect the LANC 2.5mm jack connector to the Camcorder LANC port.



**REC** Movement of the RC CH1 Transmitter stick to 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 (Not supported on Blackmagic cameras). The guarantees the camera stays in REC – even if the REC key on the camcorder is pressed.

**FOCUS** If the channel RC CH2 is used then moving the stick half-way in either direction will change the focus near to far. There are three speeds of focus in each direction, depending on how far the stick is moved from the half-way position. Moving the stick all the way in the “far” direction toggles between manual and auto-focus. Moving the stick all the way in the near direction activates "set-focus" on Blackmagic cameras.

**IRIS** If the channel RC CH3 is used (This function is only supported on Blackmagic cameras) then moving the stick half-way in either direction will change the iris open to closed. There are three speeds of iris in each direction, depending on how far the stick is moved from the half-way position. Moving the stick all the way in any direction activates the Blackmagic “set-iris” command.

**ZOOM** If the channel RC CH4 is used cameras with supported lenses will zoom, the speed being proportional to the distance the stick is moved away from the center / idle position

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 CH2, CH3, and CH4 must be returned to the centre or idle position. If the camera goes into sleep mode it can be woken up remotely by sending any signal (REC, PHOTO, FOCUS) from the RC system. This is a useful power-saving feature for remote cameras, but is not supported by Blackmagic cameras.

## Joy-sticks & Power-down

It is recommended that CH2 / 3 uses joy-sticks for full control and CH1 uses switches, see the transmitter manual for configuration details. This allows accuracy on CH1 and fine control on CH2 / 3. 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.

## Specification

Supply Voltage	3 to 5.5V. Operation is not guaranteed <3V). (absolute maximum voltage, 6.5V)
Supply Current	< 1mA
Servo Pulses	REC pulse threshold around 1.3 and 1.7mS, Focus/Iris near 1.40-1.2mS far 1.6-1.8mS, Zoom is idle at 1.5, with extremes 1.05-1.95mS Pulses should be < Supply V +- 0.7V.
Weight	9g with 20cm cable + 2g per 15cm servo lead.