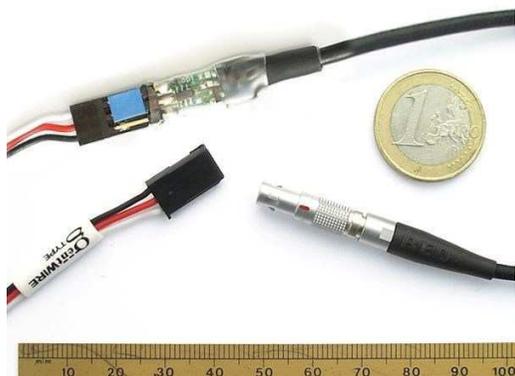


gentWIRE-RED



gentWIRE-RED allows control of record START/STOP on RED movie cameras.

Operation

Connect the 3pin connector to a standard RC Receiver Servo channel output.

Note: the blue link should be on the side marked 1 2. The photograph shows Mode 1.

Connect the LEMO connector to the RED Camera SYNC socket.

We recommend for START/STOP operation using a RC channel with a toggle switch for Epic & DSMC Base Extender (103A) or a push switch for all other Extenders for Weapon, Raven, Dragon (103A) and ONE (100B).

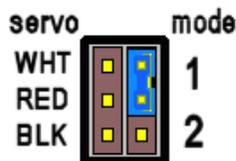
There are two red lamps on the gentWIRE-RED unit, they illuminate or change when the record signal is being sent to the camera. This can be used to make sure the RC system is configured, and for pre-flight checks

RED cameras vary, but they need to be configured to work with gentWIRE-RED. Typically in the set-up menu is here: Menu > Settings > Setup > GPIO/Sync > Brain GPIO, here there is a setting for GPI to control record START/STOP.

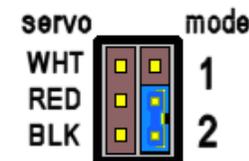
IMPORTANT: Blue Jumper Options (103A)

Different RED cameras have different interfaces in the SYNC port. IT IS CRITICAL THAT THE CORRECT BLUE JUMPER POSITION IS USED.

With the blue jumper as delivered we are in Mode 1, use this for EPIC and all Expanders except the BASE EXPANDER DSMC2. When the stick on the transmitter is pushed over momentarily to >1.6mS (>10 on Futaba & Spektrum transmitters) this will trigger the camera to toggle between standby & record.

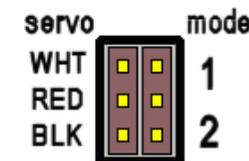


For use with EPIC cameras or the older Base Expander DSMC2, the blue jumper must be connected to 2. When the stick on the transmitter is moved from one extreme to the other the LEDs will alternate, and recording will start.



With the blue jumper removed (Mode 3), behaviour is like Mode 1, but the sense of the servo channel is reversed.

NOTE: This only works for the cameras supported by Mode 1, cameras using Mode 2 should not be connected.



Blue Jumper Options (100B)

RED ONE camera use the 100B, with it's larger LEMO connector. Operation is using Mode 1 and 3 already described. Do not use Mode 2.

Specification

Supply Voltage	3 to 5.5V (absolute maximum voltage, 6.5V) Note: DO NOT CONNECT to a 7.2volt LiPo.
Supply Current	Typically <5mA
Servo Pulses	Pulse threshold between 1.6 and 1.7mS, Pulses should be less than Supply V + 0.7V.
Weight	7 grams (including 15cm servo cable).

Diagnostics

Use a servo on the RC channel output and make sure that you are getting a full 90° movement for the stick extremes. Make sure the trim on the transmitter is set correctly.

The red lamp on the unit should be on or change when the record command is sent. Use the red lamp to check the RC transmitter and receiver output channel is working. If this operates as expected, then review the Camera GPI set-up as found in the Brain GPIO menu.