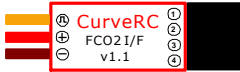
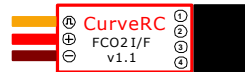


## FCO2 I/F v1.1 : [CurveRC](#) FlycamoneV2 remote shutter interface



### User instructions



### Description

The **CurveRC** FCO2 I/F miniature interface enables remote shutter control of the FlycamoneV2 video camera using a spare channel on your Tx. The interface connects directly to the FlycamoneV2 'hot shoe' mount and works by connecting pin 1 ('signal') to pin 3 ('ground') of the hot shoe mount, as expected by the FlycamoneV2.

Please note that the FlycamoneV2 must have firmware version 2.0 or greater installed in order for the remote shutter contacts 1 & 3 to operate correctly.

### Specifications

- ? Dimensions: (overall, not including servo wire) : 30mm x 12mm x 4.5mm
- ? Weight (approx) : 4g
- ? Power consumption: 5V/10mA

### Installation

The FCO2 I/F can be left permanently connected between the Rx and the FlycamoneV2 mount. The universal-type servo plug is connected to the Rx in the usual manner ensuring that the brown wire is aligned with the '-' marking on the Rx. The FCO2 I/F 4-pin connector is then plugged into the FlycamoneV2 mount, making sure that it is connected the correct way round.

The FCO2 I/F label should be facing the aircraft, while the FCO2 I/F LEDs and other components should be facing the FlycamoneV2. The pins 1-4 marked on the FCO2 I/F label correspond to the pins 1-4 markings on the FlycamoneV2 mount.

Most users will then simply click the FlycamoneV2 on and off the mount at the start and end of each flying session.

Although the FlycamoneV2 cannot be damaged by clicking it on and off the mount when the power is turned ON, it is good practice to ensure the FlycamoneV2 power switch is in the OFF position before mounting or removing the FlycamoneV2. This is because the FlycamoneV2 outputs approx 3.3V DC on pin2 ('spare/NC') of the 4-pin connector when it is turned ON.

## Operation

The following assumes the FCO2 I/F interface is connected as described previously and the FlycamoneV2 is fitted and the FlycamoneV2 power switch is in the OFF position:

### 1) Turn ON the Tx.

If you are using a slider or a 3-way switch to control the FCO2 I/F then make sure it is in the centre position. If you are using an ON-OFF type switch, make sure it is in the OFF position. If you are using an existing channel (eg rudder) with a servo y-lead, make sure the stick is centred.

### 2) Connect the flight battery (electric model) or turn on the Rx power switch.

The FCO2 I/F will do a short power-on self test and flash the RED led. It will then check for a valid signal on the Rx channel. Assuming a valid signal is detected, and the Tx switch/slider is in the correct (centre or OFF) position, the FCO2 I/F will calibrate to this signal and the GREEN led will turn ON indicating that the FCO2 I/F is in 'Ready' mode.

You can now test the FCO2 I/F by moving the slider or switch – the RED led will turn ON indicating that the shutter is triggered. If you turn OFF the Tx channel switch (or return the slider to the centre position) the RED led will turn OFF and the GREEN led will turn ON again, indicating that the shutter is OFF and the FCO2 I/F is in Ready mode again.

If the GREEN led flashes constantly, this means that a valid Rx signal is detected but the Tx slider or switch is in the wrong position. Make sure the channel slider is in the correct position or that the switch is in the centre position (3-way switch) or OFF (2-way switch). The GREEN led should now light indicating that the FCO2 I/F is in 'Ready' mode.

If no Rx signal at all is detected, the GREEN and RED leds will remain turned OFF. In this case, check your Tx is turned ON and operating on the correct channel.

### 3) Turn ON the FlycamoneV2 power switch and hold the SHUTTER switch in the usual manner until the FlycamoneV2 turns ON.

Now use the FlycamoneV2 MODE switch to select the appropriate recording mode, eg VR, VL, PR etc. You are now ready to fly, and the FCO2 I/F will take care of turning on and off the shutter via the Tx.

DO NOT press the shutter button again – you will just confuse the FlycamoneV2!

If you wish to check everything is working correctly, use the Tx to turn the shutter on and off for a couple of seconds – you should see the FCO2 I/F led change from GREEN to RED and the FlycamoneV2 display will indicate that a recording is in progress.

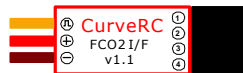
Happy flying ✈

Any queries, comments or suggestions please contact [curve@jasreb.fsnet.co.uk](mailto:curve@jasreb.fsnet.co.uk)

## FCO2 I/F v1.1 : **CurveRC** FlycamoneV2 remote shutter interface



### User instructions



### Addendum for external powering

The **CurveRC** FCO2 I/F miniature interface enables remote shutter control of the FlycamoneV2 video camera using a spare channel on your Tx. The interface connects directly to the FlycamoneV2 'hot shoe' mount and works by connecting pin 1 ('signal') to pin 3 ('ground') of the hot shoe mount, as expected by the FlycamoneV2.

In addition, according to ACME, it is also possible to power the FlycamoneV2 remotely by supplying 5V DC power to pin 4 (with gnd to pin3).

The **CurveRC** FCO2 I/F can be supplied in differing versions that allow external powering of the FlycamoneV2 in this manner, either via an extra pair of wires connected to pins 3 and 4 of the FlycamoneV2 mount, or directly via the 5V supply on the servo wire (RED conductor) from the BEC built into the ESC.

In both cases, the **CurveRC** FCO2 I/F will simply pass through the external supply (or Rx supply via the servo lead) to pins 3 and 4 of the FlycamoneV2 mount.

It is the responsibility of the user to ensure that the external power of the correct voltage and polarity is connected correctly (in the case of an external pair of wires) or that the Rx BEC (usually within the ESC) is rated to supply sufficient additional current to power the FlycamoneV2. This is very important because if you overload your BEC then you may suffer a power failure to the Rx with obvious consequences.

By powering your FlycamoneV2 externally via the **CurveRC** FCO2 I/F you are assuming full responsibility for any consequences.

ACME recommend an external supply requirement of 350mA. Our test measurements indicate that this is a worst-case scenario – ie this is when the FlycamoneV2 internal battery is already discharged and the external supply is having to power the FlycamoneV2 and charge it's internal Lipo battery. When the FlycamoneV2 is fully charged, the external current drawn is closer to 250mA. Most micro servos are rated at approx 100-200mA operating current, but some can be as high as 400mA, so you should first make sure what maximum current your own Rx and servos will draw from the BEC when deciding whether to power the FlycamoneV2 externally via the **CurveRC** FCO2 I/F .

Happy flying ✈

Any queries, comments or suggestions please contact [curve@jasreb.fsnet.co.uk](mailto:curve@jasreb.fsnet.co.uk)