

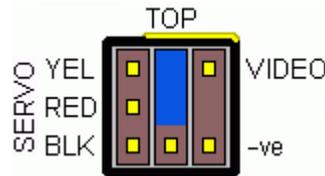


gentWIRE-videoUSB for Ricoh allows remote control from a RC system and access to the camera video output in one package.

Connect the USB connector to the Camera USB port. Next, identify the orientation of the 3x3pin connector on gentWIRE-videoUSB, see diagram below.

The REF number 122 is written at the "TOP". Connect the 3pin connector at the left side to a standard RC Receiver output:

servo	YEL	Yellow or white
+ve	RED	Red
-ve	BLK	Black



Connect the video output to the right side (3pins with one missing). There is a plastic "plug" in the centre to prevent incorrect connection.  
NOTE: There will be a spare, unused, ground connection, centre-bottom

### Servo Operation

Movement of the RC Transmitter stick from centre to the extreme will trigger the camera. There are two configurations possible, depending on what direction the stick is moved.

In one direction the camera is triggered as quickly as possible. In the other direction movement just past half-way will perform a half-press where exposure and focus are fixed, further movement will take the picture. Return to the centre after each shot.

### Joy-stick versus switch operation

RC systems vary widely, but many have auxiliary switches as well as joy-sticks. gentWIRE-videoUSB can be used on these switch channels. Most of these switches have 2 or 3 positions, so the operator needs to decide which of the two configurations mentioned above is required.

See the operating instructions for programming your RC Transmitter.

### Video output

The video output signal is passed straight from the camera. Some video receivers may experience a slight reduction in signal due to a protection circuit in gentWIRE-videoUSB. Most analogue video systems compensate for the loss with an internal gain correction circuit.

### Specification

Supply Voltage	3 to 5.5V. Operation is not guaranteed <3V). (absolute maximum voltage, 6.5V)
Supply Current	Average 1mA
Servo Pulses	Half-press: Pulse threshold 1.6 - 1.8mS, Full-press: Pulse threshold >1.8mS nominally. Pulses should be less than Supply V + 0.7V.
Weight	5 grams excluding servo and video wires & connectors.

### Diagnostics

Make sure that the camera is a RICOH and the model supports the CA-2 Remote Control – see camera manual.

Use the RC system joy-stick to explore the servo operation and check operation, only then try operation on an auxiliary switch channel.