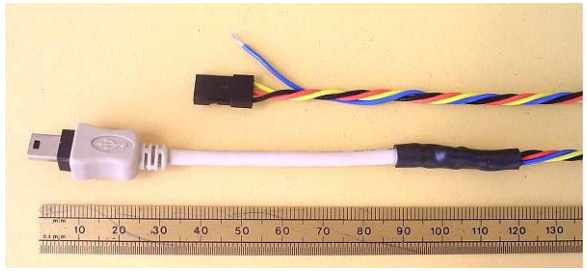
# gentWIRE-USB (Ricoh)



**Servo Operation**
Connect the 3pin connector to a standard RC Receiver Servo output:

| | |
|---|---|
| +ve | Red |
| –ve | Black |
| servo | Yellow/white |

Connect the USB connector to the Camera USB port.

Movement of the RC Transmitter stick from one extreme to the other will trigger the camera. After each activation there is a 1 second wait before operation continues. If the stick is held in the *on* position photos will be taken every 5 seconds.

**Switch Operation**
Alternately (or additionally – as both will work together) you can short the blue wire to the black wire on the servo connector to trigger the camera. In this mode the servo connector should be used to supply between 3 and 5.5V to the unit. The blue wire can thus be connected to the trigger source(s) of your choice.

Note that if the camera switches off, then activation of gentWIRE-USB will switch it on again, this can be used as a useful “power saving” feature.

**Timer/Intervalometer Operation**
The unit can also be used to trigger the camera every 10 seconds, this can be used as a simple intervalometer. To enable this make sure the blue wire is shorted to the black wire at power up. After power-up you can leave this connected for Servo Operation, or break the connection and then use the Switch Operation as described above.

**Joy-switch**
RC systems vary widely, but many have auxiliary switches as well as joy-sticks. gentWIRE-USB can be used on these switch channels if they are programmed to switch around the 1.6mS threshold used, see the operating instructions for programming your RC Transmitter.

**Specification**

| | |
|---|---|
| Supply Voltage | 3 to 5.5V. Operation is not guaranteed <3V). (absolute maximum voltage, 6.5V) |
| Supply Current | Average 1mA |
| Servo Pulses | Pulse threshold between 1.5 and 1.7mS, nominally 1.1mS is off, 1.9mS is on. Pulses should be less than Supply V + 0.7V. |
| Timer Operation | 10 second repeat shutter. |
| Weight | 9 grams including 250mm wires & connectors. |

**USB and video connectors**
The video and USB connectors are located closely together on some Ricoh models. To ease the fit of these connectors the USB on gentWIRE-USB is very small, please make sure you also use a small video plug to allow both to fit.

**Diagnostics**
Make sure that the camera is a RICOH and the model supports the CA-1 (Type: 121) or CA-2 (Type 121b) Remote Control – see camera manual.

Use a switch between the black and blue wires rather than the servo input, as this will distinguish between servo and USB link problems. Use the RC system joy-stick to maximise the servo operation and decrease it’s susceptibility to noise, then try operation on an auxiliary switch.