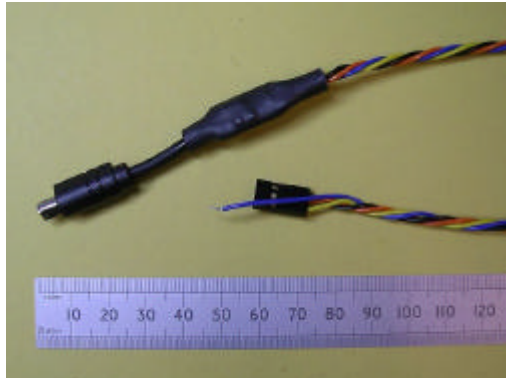




Operating Manual



Servo Operation

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

+ve **Red**
-ve **Black**
servo **Yellow/white**

Connect the moulded plug to the camera USB/serial port.

Movement of the RC Transmitter stick from one extreme to the other will trigger the camera (see section on joy-switch on the following page). 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 5-6 secs.

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.

With **Servo** or **Switch** operation it may take up to 5 seconds from power-on for communication between the **gentled** and Camera to be established. Also, if the camera powers-down, activate **gentled** once to wake the camera and a second time to take the picture.

Timer Operation

The unit can also be used to trigger the camera every 10 seconds, this can be used to prevent some cameras going into "sleep" mode. 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 so for maximum reliability it is



recommended that the joystick on the transmitter be replaced with the circuit shown. This can be built or bought ready-made as an option to the **gentled**. If the shutter triggers when the button is released, rather than pressed, then simply reverse the connector.

Specification

Supply Voltage	3 to 5.5V. (Absolute maximum voltage, 6.5V)
Supply Current	8mA at 4.8V
Serial Output	Full specified RS232 serial protocol (data only)
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	Between 8 and 12 second repeat shutter.
Weight	8 grams including 200mm wires & connector.

Diagnostics

Use a switch between the black and blue wires rather than the servo input, as this will distinguish between servo and serial-link problems. Use the joy-switch rather than a joy-stick to maximise the servo operation and decrease it's susceptibility to noise.