genTIMER

TOP TOP

TOP

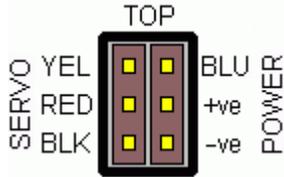**genTIMER** is an intervalometer or timer for stills cameras. It is ideal for simple remote operation and triggers the camera between 2 & 30 seconds.

Set-up
The pinout is shown right – note that TOP IS identified by the gold screw-adjust. Connect a standard (or micro) servo to **YEL / RED / BLK**, taking care to match the colours. Connect **+ve** & **-ve** to a 3 to 5.5V supply (a standard RC servo lead can be used). The servo uses high currents, a button cell is not suitable – 3x AA or AAA cells are recommended.

370 mAh battery
(4) 2/3 AA cells

gentLED-autoFINGER controller

small servo

servo arm
as "pseudo
finger"

Shown left is an example of how **genTIMER** can be used in a real application.

In this creative solution everything including the servo and battery are mounted on a bracket attached to the camera via the flash shoe.

Operation
Apply power to **+ve** & **-ve**. The servo will "nod" 45˚ anti-clockwise then 90˚ clockwise before returning to the centre point. This double motion gives maximum flexibility in the mechanical design of the servo and its relationship to the camera shutter.

Operation then repeats every 3 to 30 seconds. To change the repeat rate, adjust the gold screw adjust (top right in above picture). This is a 22 turn adjustment. It has a slipping clutch at the end, so it makes a very quiet click when at the end of the travel. The time between triggers increases as the adjustment is turned clockwise, about 1 turn / second. To achieve an interval of 2 seconds, leave BLU connected to –ve or BLK permanently.

Alternately the unit will trigger the camera "on-demand" if the pin marked BLU is shorted to –ve or BLK. Once triggered the time set by the screw-adjust starts again. Alternately set the screw adjust to maximum and rely on shorting BLU to –ve or BLK to trigger the camera. The unit still triggers every 30 seconds but the primary operation is "on-demand" triggering.

Specification

Supply Voltage	External supply required: 3 to 5.5volts, 4.5 – 5 volts works best. Absolute maximum 6.5volts. 3x AA or AAA cells is recommended.
Supply Current	<1mA, excluding servo current.
Servo Connection and movement	Standard 3-pin servo interface. Servo centered when idle and moves 45˚ in each direction when activated.
Timer Operation	2 seconds & 3 to 30 seconds variable.
Weight	2 grams, 0.07oz.

Long Timer Option (152)
If you have bought the long time version of genTIMER, then operation is identical, just 50x longer timing. For test and set-up you can enter standard mode by shorting BLU to ground at power-on.

Diagnostics
Check the battery and servo are correctly connected (the connectors are the correct orientation and not off-set) and the battery is not exhausted.

Use the shortest delay time to make fault diagnosis easier. Remember some cameras may take several seconds to take another picture, and thus only registering every other trigger from the genTIMER.