

**I would really be grateful if you start to build the Developing Timer, that you go to the Photrio thread and say hi. Also please post photos of your completed tester.**

Please refer to Photrio for further build help & to let us know you are building the timer.  
[\(1\) Trigger Trap Splash Freeze Timer Cheap-Easy-It-Works | Photrio.com Photography Forums](#)

GitHub repository where all documentation & code can be found. [billbill100 \(github.com\)](#)

## Trigger Trap Timer Camer Connections V1.0      25/03/2024

The opto-isolator board provides total electrical separation between the camera and the timer. One of the chips on the board is an 'opto-isolator'. On one side is an LED, which lights when controlled by the ESP32. On the other side is a photo-resistor., which sees this light & responds in kind. There is no electrical connection, the only thing passing across is light. This light is used to control the other side of the board, which connects to the camera.

Ensure the jumper on the board is removed (yellow in the photos).

Nikon & Canon connection is the most straight forward. The cable release socket uses three wires, common, focus & shutter release.

Either purchase a cheap cable release & take apart, to get the camera connector & cable or buy a camera connector cable to 3.5mm socket. This option is useful as 3.5mm socket to socket extension cables can be purchased, allowing easier location of camera & Timer box.

**Canon** some cameras use a 2.5mm socket on their cameras.

Outer is Common,

Collar is Focus

Tip is Shutter.

**Nikon** use three different camera connectors, using three wires as canon.

Some manufacturers use just two wires, but with added resistors, **Fuji & Panasonic**, for example. Extra resistors are used. This makes the cable a little more complicated.

To identify which wire is which, the easiest way is to use a multimeter on Ohm scale, connecting one end of the multimeter to a wire and the other to a connector pin. There are plenty of internet resources showing the connector pin functions.

Alternately, using trial and error, by touching the wires together to find which is common, focus & shutter.

Common & focus is easiest. When the correct wires are touched the camera will wake up & focus. However, it will not be known which wire is which, but at least the shutter wire has been positively identified.

To connect to the Time box 3.5mm jack plug,

Common Outer - Black

Focus to collar - Green

Shutter to Tip. - Yellow

Below are links to useful web sites showing the connectors & pin-outs.

[www.doc-diy.net](http://www.doc-diy.net) :: camera remote release pinout list

[DIY - Release Cable for Canon DSLRs \(diyphotography.net\)](#)

[Canon N3 Connector Pinout and Wiring : Martin Pot - Photography Blog \(martybugs.net\)](#)

[Panasonic Shutter Release Cable for Arduino Camera Control and Timelapse Ep 22 \(youtube.com\)](#)