

LTDV1CH-17V | DATASHEET

Strobe controller 1 channel variable current 5 mA - 17A



KEY ADVANTAGES

- Industrial design with opto-isolated I/O signals
- High-precision LED strobe control with configurable timing
- Wide interface compatibility for integration into PC and PLC systems*
- Up to 8 independently controlled output channels
- High output currents with options for intensive LED loads
- Integrated thermal overload protection*

*available on some models



Opto Engineering® range of strobe controllers offers repeatable fast pulsing for quick and accurate strobing of a wide variety of LED lightings.

SPECIFICATIONS

Electrical specifications

Output channels		1
Max continuous current	(A)	0.16
Max pulse current	(A)	17
Max pulse voltage ¹	(V)	46
Max dissipable thermal power per channel	(W)	8
Pulse delay ²	(µs)	-
Pulse width ²	(µs)	-
Pulse delay repeatability	(µs)	-
Pulse width repeatability	(µs)	-
Power supply ³	(V)	24
Data Interface		-
Communication protocol		-
I/O interface	1x opto-isolated input 1x opto-isolated output	

Mechanical specifications

Width ⁴	(mm)	119
Length ⁴	(mm)	70
Height ⁴	(mm)	82
Mass	(g)	500
Mounting		DIN rail

¹ Maximum output voltage depends on the output current. Higher current draw lowers the maximum output voltage.

² In variable resolution depending on selected value.

³ ± 10%.

⁴ Including DIN rail where available on the product.

KEY FEATURES



24 V



OPTO ISOLATED I/O

Environment Specification

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
IP rating		IP20
Installation		Indoor use only

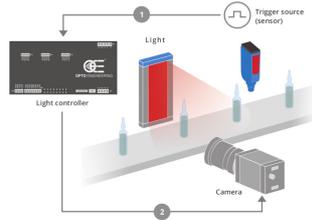
All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.

TRIGGERING OPTIONS AND WIRING DIAGRAM

Two typical camera triggering arrangement (Option A and B) are illustrated for each controller model. Triggering Option A) is preferred because the controller directly filters the trigger signals getting rid of unwanted noise. This configuration is possible because Opto Engineering® controllers feature dedicated synchronization outputs which are not commonly available from other manufacturers.

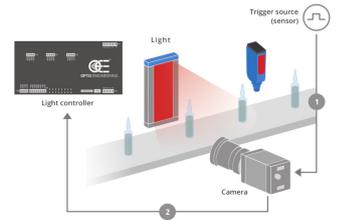
CONTROLLER TRIGGERS CAMERA

Triggering arrangement where the light controller is triggered by trigger source(s) (sensor positioned on the manufacturing line) and the lighting controller then triggers the camera(s). This arrangement has the advantage that the controller can filter the trigger signals before passing the command to the camera and the light.

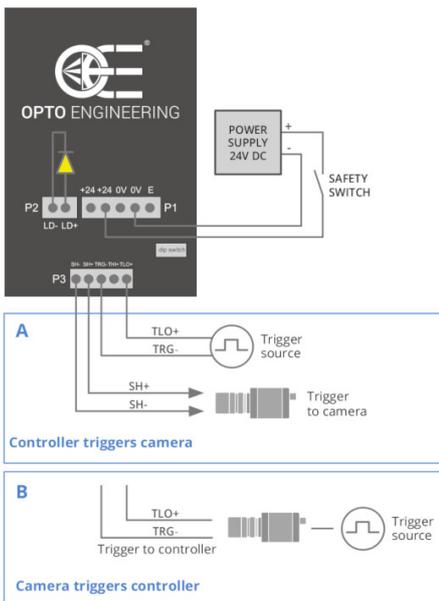


CAMERA TRIGGERS CONTROLLER

Arrangement where each camera is triggered by a trigger source (sensor), the camera then triggers the light controller and starts its exposure.



WIRING DIAGRAM



COMPATIBLE PRODUCTS

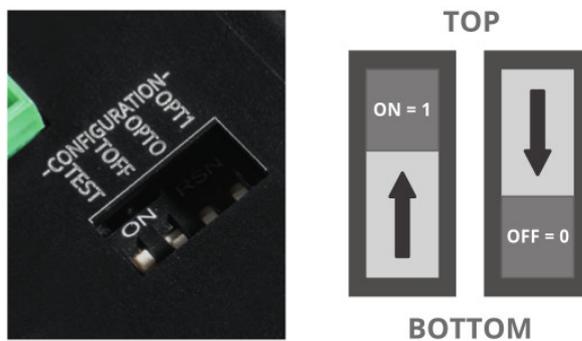
Full list of compatible products available [here](#).



A wide selection of innovative machine vision components.

EASY CONFIGURATION

LTDV1CH is simply configured from the front panel via DIP switches. You can easily set the intensity of the LED lights driving current (from 5mA to 17A), filtering option for the trigger signal (select between 10 μ s or 100 μ s time constant) and delay for synchronization output (select between 0 or 100 μ s).



DIP switches interface for simple and fast configuration