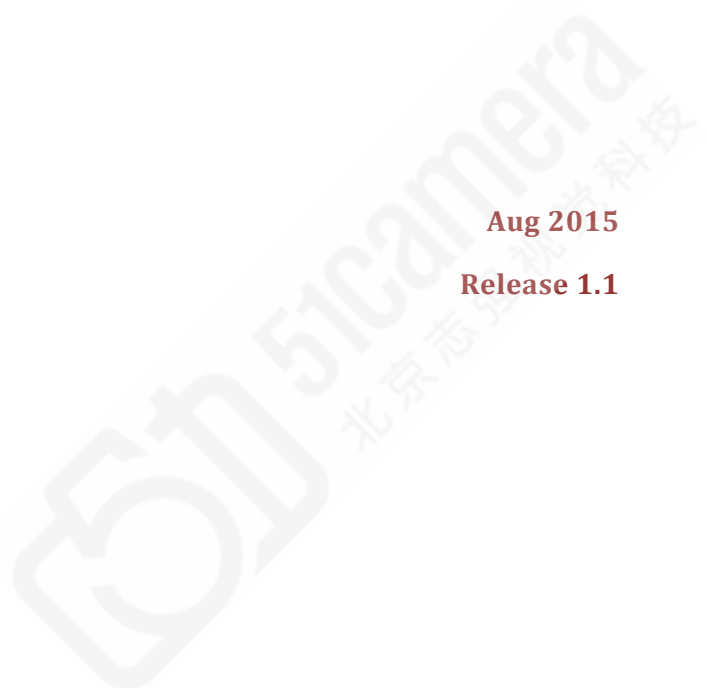

LED STROBE LIGHT DATA SHEET

MODEL NO. LKL-W210

Aug 2015

Release 1.1



PRODUCT DESCRIPTION

The LKL-W210 series LED strobe light are specially designed for imaging system, which provides high intensity flash with real-time controllable pulse width and power. It has been proved to be an excellent compensating light source for high-speed imaging system.

- The LKL-W210 is designed for the outdoor harsh environment with over drive protection.
- The LKL-W210 guarantees over 10^8 flashes in its life-time.
- The pulse width and light intensity are real-time adjustable.



FEATURES

- Customized output wavelength
- Over frequency protection
- Real-time pulse width control
- Real-time pulse intensity control
- Over trigger protection
- Over duty cycle protection
- Operating case temperature range: -40C to +85C
- Low EMI radiation
- Long lifetime

SPECIFICATIONS

Optical Spec	Min	Typ.	Max	Unit	Notes
Peak Radiation power @1m, direct		100		w/m ²	
Wavelength	450		650	nm	Customize
Radiation angle		120		degree	Customize
Electrical Spec					
Power supply voltage	12	24	26	V	
Power supply current		1		A	Average current
Power consumption @standby		1	2	W	
Control pulse high voltage	7		12	V	
Control pulse low voltage	0		5	V	
Control pulse current	0.5			mA	
Control pulse width	20		800	us	
Control pulse frequency			200	Hz	
Control pulse duty cycle			3	%	
Mechanical					
Temperature	-40		85	C	Case Temperature
Size(HxWxL)		109x64x95		mm	
Weight		1.5		kg	
Lifetime strobe times	10 ⁸				

Typ. conditions: pulse width 200us, repetition rate 60Hz

Note: If the control pulse frequency is over 200Hz or the duty cycle is over 3%, the light will turn off. It can recover until the control pulse changes normal.

CONNECTION CONFIGURATION

Connector type: water-proof electrical connector

The two connectors have the same pin definition.

Pin1: Power Ground (Gnd)

Pin2: Power Supply (+24V)

Pin3: NC

Pin4: Trigger Ground(Gnd)

Pin5: Trigger Positive(+12V)

Pin6: NC

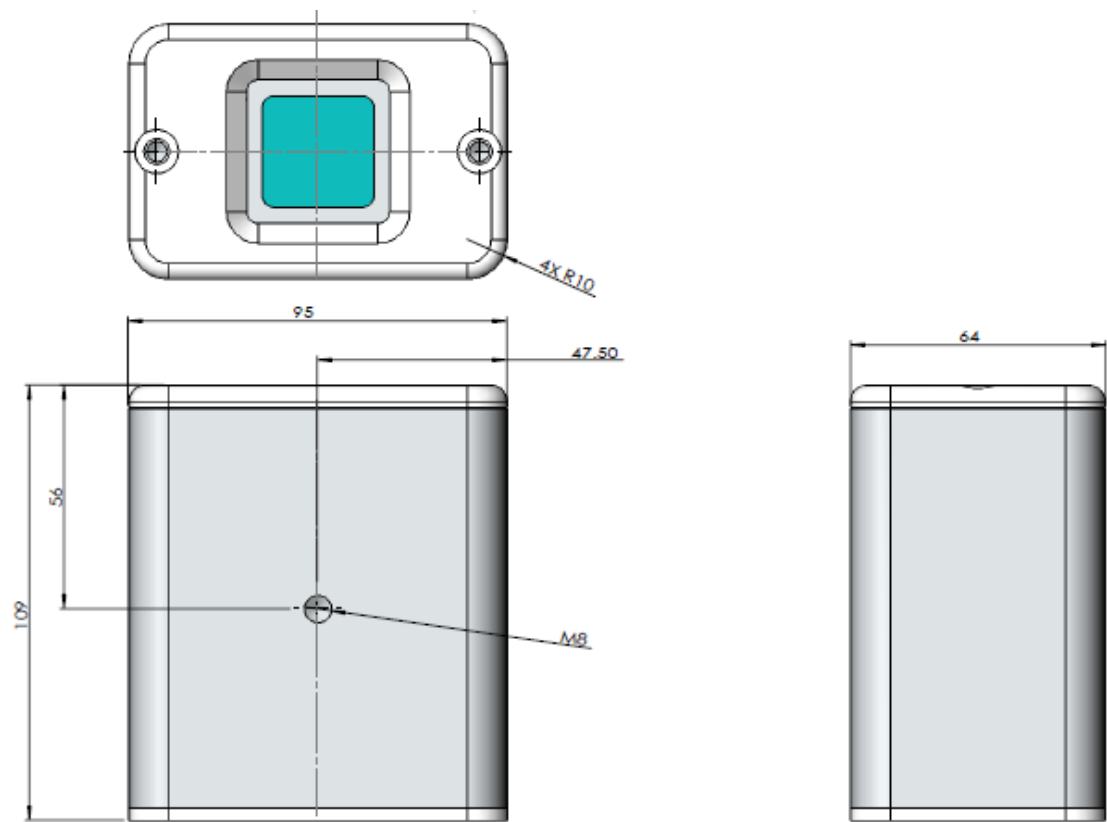


SPECIAL NOTES

1. Use good heat sink if the strobe light works at high power condition(The control pulse duty cycle is over 1%).
2. Do not supply voltage higher than 12V to Pulse control Input.
3. The flash rate should not exceed 200 Hz or the duty cycle should not exceed 3%.
Otherwise the light may be protected to turn off.

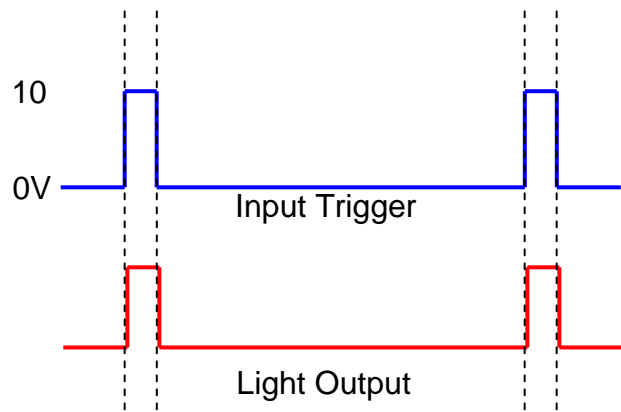


MECHANICAL DIMENSIONS

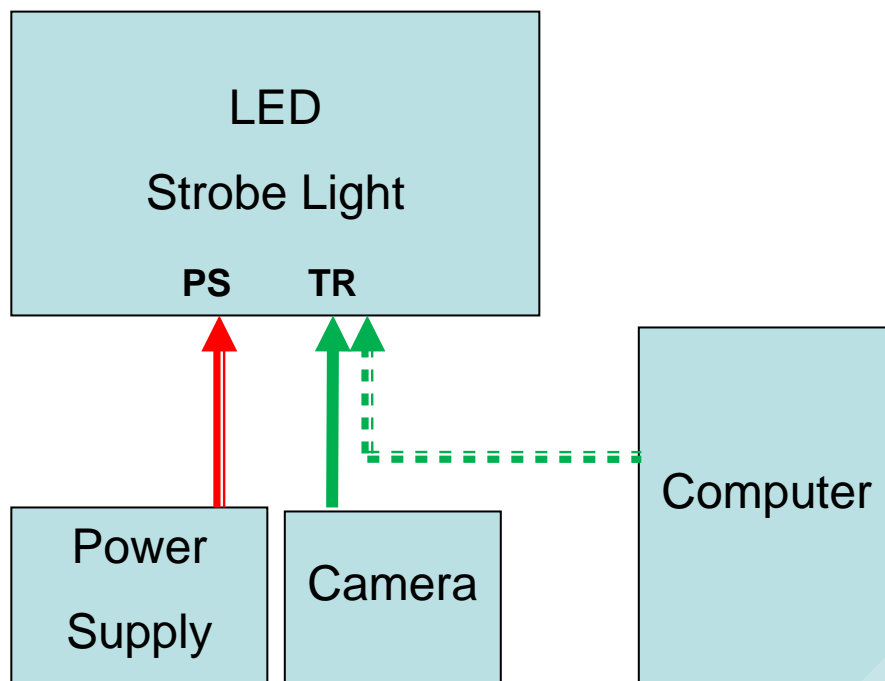


APPLICATION NOTES

1. Illustration of output pulse control



2. Diagram of connection in typical application



PS: Power Supply 24V

TR: Pulse Control (Trigger)

Note: The pulse of LED Strobe light can be either triggered by camera trigger output or by other circuit board.

ORDER INFORMATION

Part number: LKL-W210-999

XXX: Central wavelength in nm, 999 for white

