


**product features**


- Large LED Backlight with thin profile
- M12 Quick Disconnect
- Different Sizes Available
- Driver built in – No external wiring to a driver
- Edge Lite White LED panel
- PNP and NPN Strobe input
- Maximum 5000 Strokes per Second
- Maximum Strobe Time 125ms
- 3-5x the intensity of standard LLP


**product specifications**

<b>Electrical Input</b>	24 VDC +/- 5%
<b>Current</b>	Based on size. Contact Smart Vision Lights
<b>Wattage</b>	Based on size. Contact Smart Vision Lights
<b>Strobe Input</b>	PNP ▶ +4VDC or greater to activate.   NPN ▶ GND (<1VDC) to activate
<b>PNP Line</b>	3.7mA @ 3VDC   6.2mA @ 5VDC   12.6mA @ 10VDC   30.4mA @ 24 VDC
<b>NPN Line</b>	22mA @ Common (0VDC)
<b>Strobe Mode</b>	Light will be in strobe mode by leaving signal on strobe input active
<b>Strobe/Pulse Time</b>	Max. 5000 SPS (Strokes Per Second)   Max. Single Pulse = 125ms
<b>Intensity</b>	16,000 lux
<b>Connection</b>	5 pin M12 connector
<b>Lifespan</b>	100,000 hrs
<b>IP Rating</b>	IP50
<b>Certification</b>	CE and RoHS certified
<b>IEC 62471 Rating</b>	See page 3


**product number key**

## ODLLP – XXX x XXX - XXX—» Part Number Key

**Product Family:**  
Light Panel  
ODLLP

**Size:**  
Call for more  
information

**Color:**  
470 – Blue  
625 – Red  
850 – IR  
WHI - White

CE and RoHS Compliant



## warnings



### Attention

Please note that the power requirements vary according to size. Contact Smart Vision Lights for more information regarding current and wattage ratings.



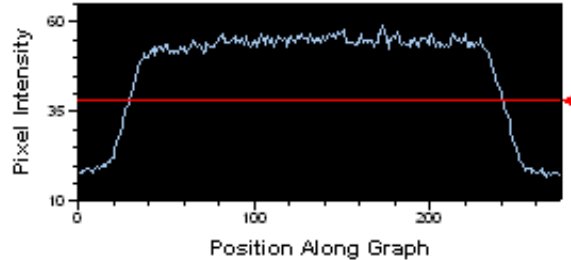
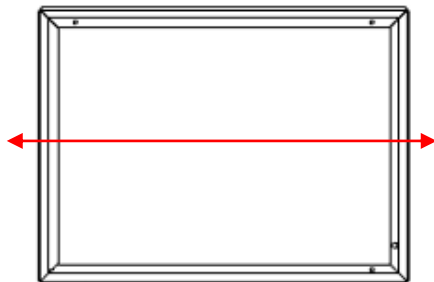
## wiring configuration

	Pin	Function	Signal	Wire Color
	1	Power In	+24VDC	BROWN
	2	NPN	Sinking Signal	WHITE
	3	GND	Ground	BLUE
	4	PNP	Sourcing Signal	BLACK
	5	Intensity Control	NOT USED	NOT USED †

† Some cables use green with yellow stripe for 0-10V adjustment



## optical performance



The ODLLP offers a very diffuse light pattern at any defined working distance. The Pixel Graph representation shows a steep drop off in intensity outside of the active area with a very diffuse light pattern inside.

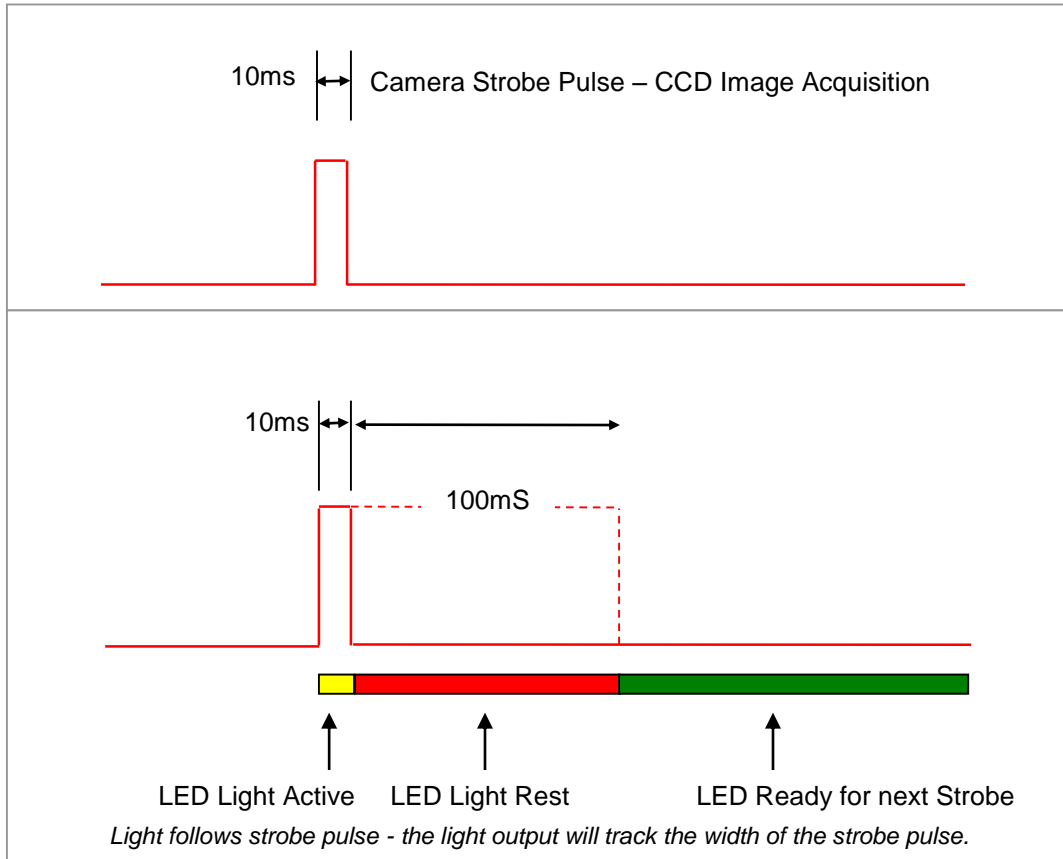
<b>Average Intensity Rating</b>	<b>16,000 lux</b>
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\*Lux measurement taken at surface of ODLLP.



### Duty Cycle on Performance of Light

All lights are pulse following



**Duty Cycle (D) is defined as the ratio between Strobe Time and Rest Time**

**Maximum Duty Cycle for OD Light is 10% = .1**

Calculating Rest Time -  $R_T$

$$R_T = \frac{S_T}{D}$$

$S_T$  is the Strobe Time  
 $R_T$  is the Rest Time  
 $D$  is Duty Cycle

**Example: Camera exposure of 10mS where Strobe Time is 10mS.**

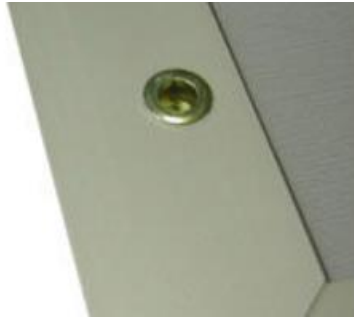
$$R_T = \frac{10ms}{.1} = 100mS$$

Rest Time is 100ms for 10ms Strobe Time



## mounting & accessories

M5 Screws



Threaded inserts in  
aluminum frame



## risk group

According to IEC 62471:2006. Full documentation upon request.

### Notice

Exempt Group: No photobiological hazard to eyes or skin even for continuous, unrestricted use.  
Applicable for wavelengths: 625, 850.

### Caution

Risk Group 1: Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to eye. Safe for most applications except prolonged exposures.  
Applicable for wavelengths: 470 and WHI.