


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

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



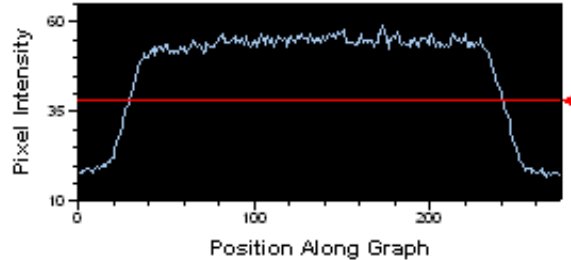
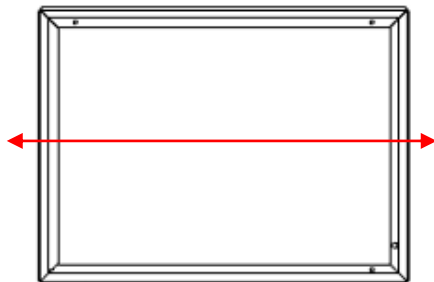
wiring configuration

	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.

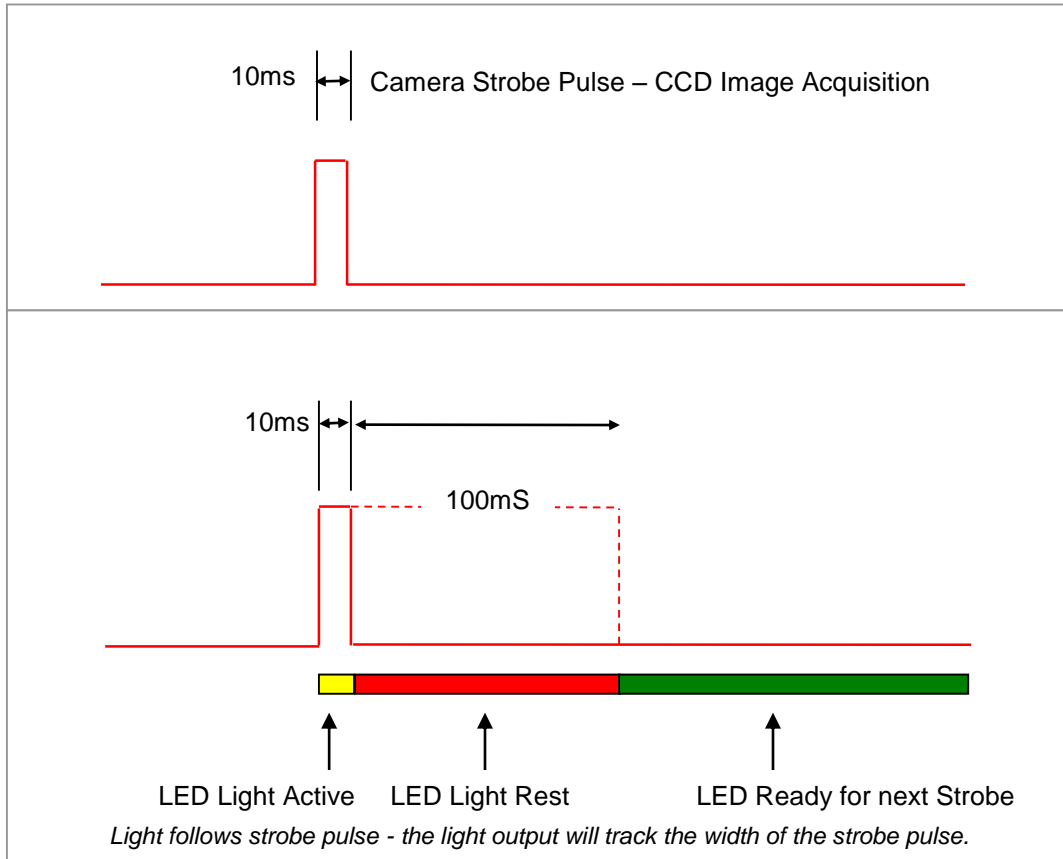
Average Intensity Rating	16,000 lux
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*Lux measurement taken at surface of ODLLP.



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.

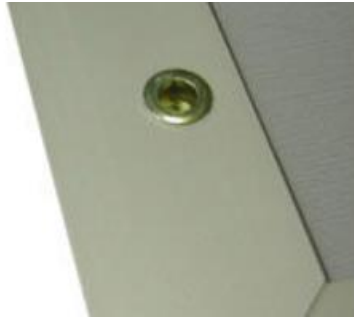
$$R_T = \frac{10ms}{.1} = 100mS$$

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.