


**product introduction**

The DLP Front Light Series of lights are an innovative and highly versatile light with many custom sizes available. The DLP Series of front lights offers backlit LED's for a more intense and highly diffuse lighting option. With its built in driver, no external wiring is needed and its narrow depth of just 30mm allows for mounting in tight locations. The DLP Series of front lights offer a 53mm camera hole in the center for the 190x190 and a 78mm hole for the 300x300 and larger sizes for ease of viewing. Active area dimensions include 190mm x 190mm, 300mm x 300mm, 450x450, and 600mm x 600mm. Contact Smart Vision Lights for larger dimensions.


**product features**


- 30mm Industrial Extrusion
- Driver Built In – No External Wiring To A Driver
- PNP and NPN Strobe Input
- Continuous Operation or Strobe Mode
- Analog Intensity 0-10VDC Signal
- 53mm or 78mm Diameter Center Camera Hole
- Offered in White, Red, Green, Blue, IR


**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>Brightness</b>	30,000 or 44,000 lux - measured at surface of light (lux rating based on active area)
<b>Strobe Input</b>	PNP ► +3VDC 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>Continuous Mode</b>	Light will be in continuous mode by leaving signal on strobe input active
<b>Analog Intensity</b>	The output is adjustable from 10 -100% of brightness by a 0 -10 VDC signal
<b>Connection</b>	5 pin M12 connector
<b>Lifespan</b>	100,000 hrs
<b>Ambient Temp.</b>	-20° - 50° C (-4° - 122° F)
<b>IP Rating</b>	IP50
<b>Compliances</b>	CE and RoHS
<b>Weight</b>	Based on size. Contact Smart Vision Lights
<b>IEC 62471 Rating</b>	See page 3



## product number key

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

**Product Family:**  
Backlight  
DLP

**Dimension:**  
Measured active area (mm)  
190x190  
300x300  
450x450  
600x600

**Color:**  
470 – Blue  
530 – Green  
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

If Analog 0-10 VDC is not used to control light intensity;  
+VDC (24VDC) must be connected to Analog Input - Jumper pin 5 to pin 1

	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	0-10VDC	GREY †

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



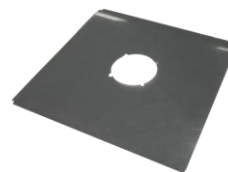
## mounting & accessories



Optional bracket allows for convenient mounting of camera

### Camera Mount

DLP-190 Series – Part# BKT0005  
DLP-300 Series – Part# BKT0006  
DLP-450 Series – Part# BKT0013  
DLP-600 Series – Part# BKT0014



Polarizer options are available. Contact Smart Vision Lights for more information.

### Polarizer

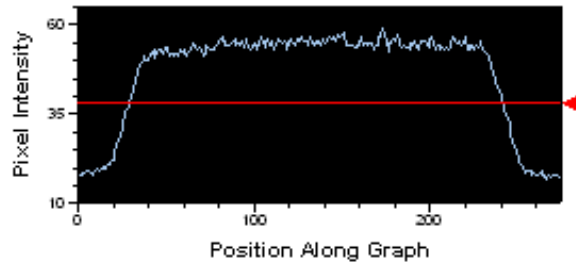
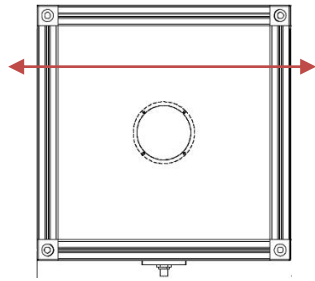


All mounting is provided by the standard 30mm industrial extrusion.

### Mounting



## optical performance



The DLP 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.

DLP Size	Average Intensity Rating
190x190	44,000 lux
300x300	32,000 lux
450x450	32,000 lux
600x600	32,000 lux

\*Lux measurement taken at surface of DLP.



## risk group

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

### Notice

**Exempt Group:** No photo biological hazard to eyes or skin even for continuous, unrestricted use.  
Applicable for wavelengths: 625 and 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, 530, and WHI.