



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

Electrical Input	24 VDC +/- 5%
Current	Based on size. Contact Smart Vision Lights
Wattage	Based on size. Contact Smart Vision Lights
Brightness	30,000 or 44,000 lux - measured at surface of light (lux rating based on active area)
Strobe Input	PNP ► +3VDC or greater to activate. NPN ► GND (<1VDC) to activate
PNP Line	3.7mA @ 3VDC 6.2mA @ 5VDC 12.6mA @ 10VDC 30.4mA @ 24 VDC
NPN Line	22mA @ Common (0VDC)
Continuous Mode	Light will be in continuous mode by leaving signal on strobe input active
Analog Intensity	The output is adjustable from 10 -100% of brightness by a 0 -10 VDC signal
Connection	5 pin M12 connector
Lifespan	100,000 hrs
Ambient Temp.	-20° - 50° C (-4° - 122° F)
IP Rating	IP50
Compliances	CE and RoHS
Weight	Based on size. Contact Smart Vision Lights
IEC 62471 Rating	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



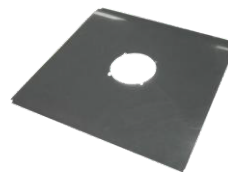
mounting & accessories



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

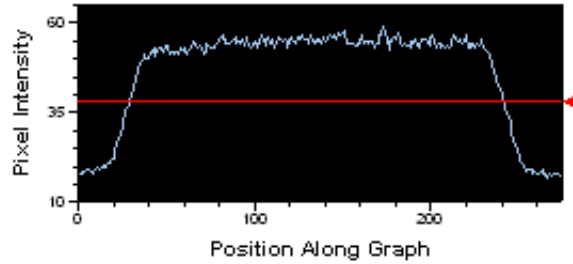
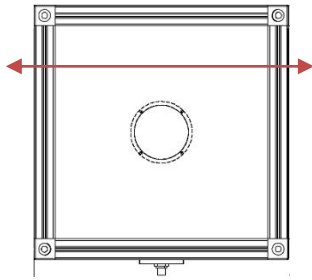


All mounting is provided by the standard 30mm industrial extrusion.

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.