





▷ MACHINE VISION APPLICATIONS ▷ LOGISTICS MARKET ▷ PALET CHECKING ▷ DIFFUSE ILLUMINATION ▷ THIN BORDERS ▷ FIT CAMERA'S OBJECTIVES



The FLOOD Light by TPL Vision is a high power flat illumination, which can illuminate large areas from a distance. It is specifically dedicated to the logistics market, and in particular to the control of palletizing process.

The FLOOD Light has very thin edges and offers homogeneous light from the entire working surface, including from the edges. Thanks to the hole in the center of the Flood Light, you can insert your camera. And using the TPL Vision mounting accessories (in option), you can easily integrate it thanks to the mounting plate.

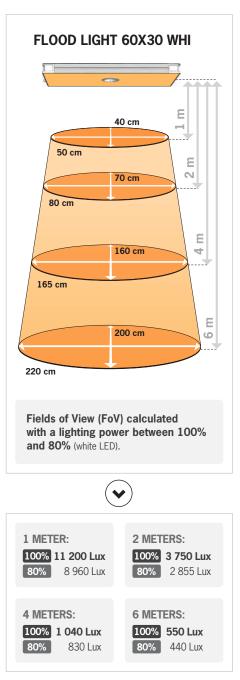
Equipped with a satin diffuser and $\pm 17^\circ$ lenses, it is available in two sizes (200x300mm and 300x600mm) and in several wavelengths (white, blue, red and infrared).

DIMENSIONS			
Length Width	300 mm	600 mm	
200 mm	\checkmark		
300 mm		\checkmark	

COLOURS			
White	Blue	Red	Infrared



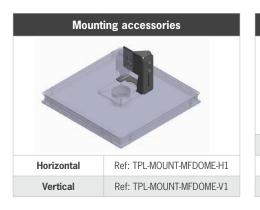
LIGHTING AREA



TECHNICAL SPECIFICATIONS

Electronics			
Power supply	24 VDC ±10%		
Functioning mode	Strobe		
Strobe input	PNP : From 5 to 24V for 100% ON. From 0 to 1V for 100% OFF. NPN : less than 1V for 100% ON. Above 2V for 100% OFF. Max 20V.		
Overdrive	Yes		
Strobe Conditions (On time, duty cycle)	3ms @ 10% at max power		
Dimming	Potentiometer 30-100%		
Maximum rising time	25 µs		
Maximum falling time	15 µs		
Wiring	1 connector M12 T-Power 12A 4 poles		
Power supply cable(s) max length	Wire M12 : 10m (not suppied) Cable : 10m		
Max consumption	3W/25cm ² in peak max ; 0.43W/25cm ² max on average (3ms@10%)		
Optics			
Colour	White, Red, Blue, Infrared		
Lenses	± 17°		
	Mechanics		
Thickness (mm)	45mm		
Surface	300x200mm or 600x300mm		
Internal diameter (mm)	65		
Weight	23.8 Kg/m ² ±15%		
Body materials	Aluminum and loaded ABS		
Diffuser	Satinice diffuser		
Fixing	4 M4 nuts (supplied) to insert in the groove or 4 M3x20 screws (not supplied)		
Environment			
Operating temperature	-10° to +40°C / 80% of humidity without condensation No thermal shock (max temperature variation: 10°C in 24h)		
Storage temperature	-20° to +60°C / 80% of humidity without condensation No thermal shock (max temperature variation: 10°C in 24h)		
IP protection	IP 40		
Labels	RoHS-CE-WEEE		

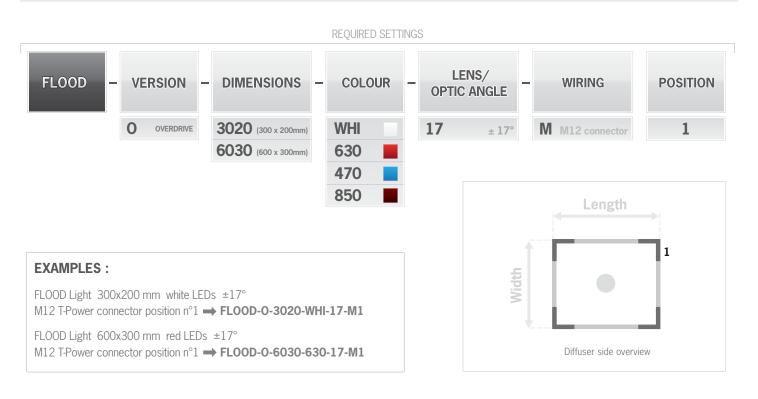
RELATED PRODUCTS







HOW TO BUILD YOUR REFERENCE



TPL VISION IS EXTREMELY CAREFUL ABOUT BIN SORTING IN THE SELECTION OF LEDS FOR THEIR PRODUCTS.

The human eye is particularly sensitive to color variations. Two products of the same color may appear different in the eyes of the user. However, **the maximum variation of the wavelength DOES NOT EXCEED 10 NM**. Here are the following bandpass camera filters we recommend:

- White LEDs: no filter required
- Infrared LEDs: LP 830 (http://midopt.com/filters/lp830/)
- Red LEDs: BP 635 (http://midopt.com/filters/bp635/)
- Cyan LEDs: BP 505 (http://midopt.com/filters/bp505/)

We advise using bandpass filters from MidOpt: www.midopt.com

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Other available documents: • PDF, DWG, DXF, STEP DRAWINGS (on demand) • USER GUIDE

