

## Diffusive strobed dome + low angle illumination system - medium size high power white



### SPECIFICATIONS

#### Lighting specifications

Illumination area diameter	(mm)	60
Optimal working distance	(mm)	5-50
Number of LEDs (Dome)		40
Light color, peak wavelength (Dome)		white, > 6000 K
Spectral FWHM (Dome)	(nm)	-
Illuminance <sup>1</sup> (Dome)	(klux)	160
Number of LEDs (Ringlight)		40
Light color, peak wavelength (Ringlight)		white, > 6000 K
Spectral FWHM (Ringlight)	(nm)	-
Illuminance <sup>1</sup> (Ringlight)	(klux)	210
Diffuser (Ringlight)		yes

#### Electrical specifications

Power supply mode		Strobe only, constant current driving
Peak power consumption	(W)	n.a
Min pulse current	(A)	3.5
Max pulse current	(A)	17
Max pulse duration <sup>2</sup>	(ms)	1
Max duty cycle	(%)	1.5
Estimated MTBF <sup>3</sup>	(hours)	> 50000
Connector		M12
Included cable		CBLT005

### KEY ADVANTAGES

#### Two independent illumination units in one single solution

Dome unit for homogeneous illuminations and low angle unit for dark field lighting can be independently operated.

#### Ultra-high power light output and strobe mode only operation

For the inspection of fast moving object and extended LED lifetime.

#### Multiple configurations

Available in two sizes and two power intensities.

#### Compatible LTDV strobe controllers available

For easy and appropriate power, control and synchronization of the illuminator.

**LTDMLA series** are ultra-high power diffuse LED strobe illuminators combining a dome light and a low angle ring light.

#### Mechanical specifications

Aperture Diameter	(mm)	10-50
Length	(mm)	166.5
Width	(mm)	133.0
Height	(mm)	104.0
Mass	(g)	1800
Clamping system		4x M6 threaded holes

#### Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
Installation		Indoor use only

#### Eye safety

Risk group (CEI EN 62471:2010)	Risk group 1
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<sup>1</sup> Measured at maximum current and maximum working distance

<sup>2</sup> At 25°C. At max pulse width (1ms), max pulse frequency = 15 Hz

<sup>3</sup> At 25°C

### COMPATIBLE PRODUCTS

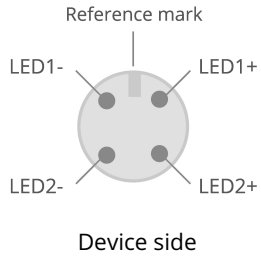
Full list of compatible products available [here](#).



A wide selection of innovative machine vision components.

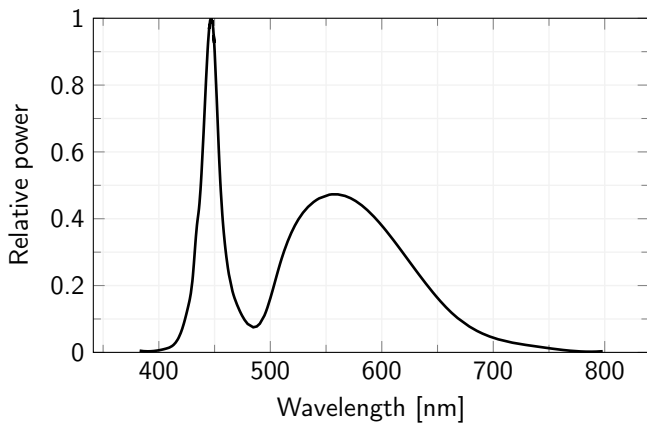
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### CONNECTOR PINOUT

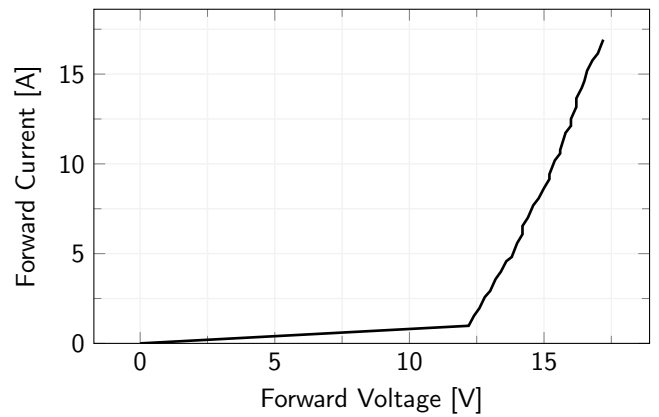


Function	Cable color
LED 1+	Brown/White
LED 1-	Green/Yellow
LED 2+	Blue/Red
LED 2-	Grey/Pink

**LED color spectrum**



**Forward Current Characteristics**



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