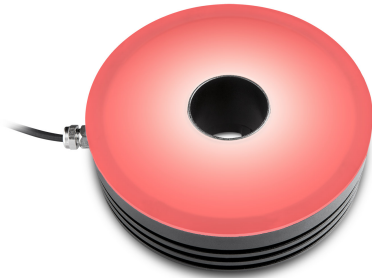


Ring LED illuminator, inner diameter 28.0mm, straight type, red, 630 nm



SPECIFICATIONS

Lighting specifications

Illumination area outer diameter	(mm)	90.0
Illumination area inner diameter	(mm)	40.0
Optimal working distance (min-max)	(mm)	55-85
Number of LED rows		1
Emission angle	(°)	0
Light color, peak wavelength		red, 630 nm
Illuminance at min WD ¹	(lux)	6860
Illuminance at max WD ¹	(lux)	3970

Electrical specifications

Supply voltage ²	(V)	24
Current	(mA)	200
Power consumption	(W)	4.8
Estimated MTBF ³	(hours)	> 20000
Max pulse voltage ⁴	(V)	24-48 (36 recommended)
Max pulse current ⁵	(mA)	600
Max duty cycle	(%)	10
Max pulse duration	(ms)	10
Connector ⁶		Flying leads
Cable length	(mm)	1000

Mechanical specifications

Outer diameter	(mm)	104.0
Inner diameter	(mm)	28.0
Height	(mm)	39.6
Mass	(g)	283

KEY ADVANTAGES

Mechanically fitting Opto Engineering® optics

Each lens integrates specific mechanical interfaces.

Specific illumination geometry

Illumination path matches Opto Engineering lenses viewing angle and numerical aperture.

High performance to price ratio

Cost-effective, without quality compromises.

LTRNST series are LED ring illuminators specifically designed for a wide range of Opto Engineering products. Especially the stray type models perfectly fit Opto Engineering® telecentric lenses.

Environment

Operating temperature	(°C)	0-45
Operating humidity	(%)	20-85, non condensing

Eye safety

Risk group (CEI EN 62471:2010)	Exempt
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¹ ±15%.

² Tolerance ±2%.

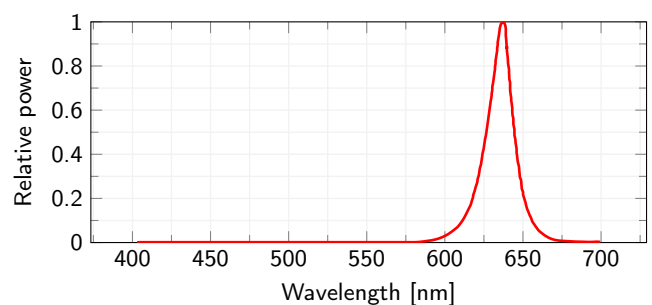
³ At 25°C.

⁴ Constant voltage power supply.

⁵ Constant current power supply.

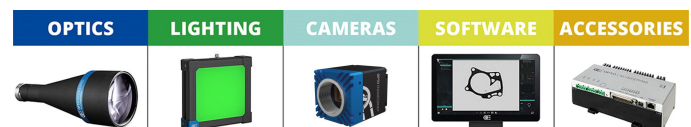
⁶ Red Cable is V+, white cable is V-.

LED color spectrum



COMPATIBLE PRODUCTS

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



A wide selection of innovative machine vision components.