

Modular LED line light, 200mm length, near field focusing, fan cooling, white



KEY ADVANTAGES

Emitting surface up 2 meters in 200 mm increments.

Flicker free for line scan applications.

3 types of projection lenses

Near field focusing (N), far field focusing (F), collimated (C).

Homogeneous beam for uniform illumination.

Built-in controller

LTLNM series are high power LED line illuminators designed for line scan applications. These lights are flicker-free and meet the needs of demanding applications with reduced exposure times (tens of μ s) ensuring very constant illumination and repeatable acquisition. Their modular design provides size flexibility without any compromise in terms of light uniformity.

SPECIFICATIONS

Lighting specifications

Modules		1
Illumination area length	(mm)	200
Illumination area height	(mm)	20
Focusing		near
Optimal working distance	(mm)	10-100
Number of LEDs		48
Light color, peak wavelength		white, 6200 K
Spectral FWHM	(nm)	-
Illuminance ¹	(klux)	n.a.
Diffuser		no

Electrical specifications

Supply voltage ²	(V)	24
Current	(A)	3
Power consumption	(W)	72
Estimated MTBF ³	(hours)	> 20000
Power connector		WEIPU SP2110/P2
Power Cables		CBLT008 included
I/O connector		M12, 5 pins
I/O cables		CBLT009 included

¹ Measured at minimum working distance

² $\pm 2\%$

³ Drop to 50% intensity @ 25°C

Mechanical specifications

Length	(mm)	250.0
Width	(mm)	75.0
Height	(mm)	128.0
Mass	(g)	2700
Clamping system		4x M10 threaded holes
Cooling method		fan

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 2
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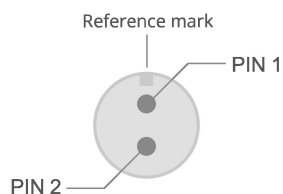
COMPATIBLE PRODUCTS

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



A wide selection of innovative machine vision components.

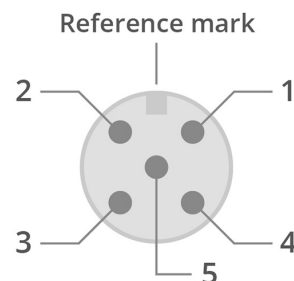
POWER CONNECTOR PINOUT



Illuminator side. Front view

Pin	Description	Cable Color
1	Positive power supply (24V)	Brown
2	Negative power supply (GND)	Blue

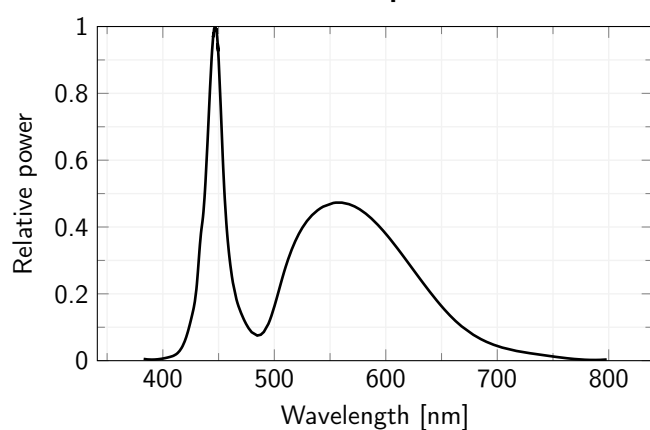
I/O CONNECTOR PINOUT



Illuminator side. Front view

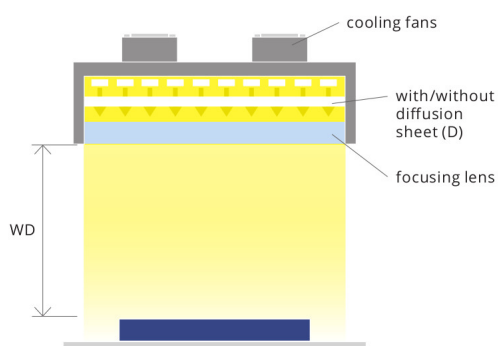
Pin	Function	Description	Cable Color
1	Enable	Connect to a +24Vdc to turn the light ON	Brown
2	Fault	Internally pulled-up to +24Vdc	White
3	Signal GND	Internally connected to power GND	Blue
4	10V output	10V reference signal for dimming	Black
5	Dimming control	Voltage signal for dimming control	Green

LED color spectrum

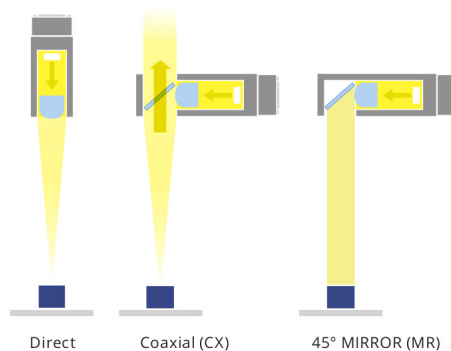


ADDITIONAL INFO

Lighting structure



Type



Projection lenses and focusing distances

