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- PRELIMINARY -

VNIR LED line lighting



The LED line lighting features a compact design and homogenous light distribution over the illuminated line. A 24V power supply stabilised by UPS or capacitor buffer module is required for pulsed operation mode. The lighting is configured and powered by two industrial connectors.

Optical and spectral characteristics	
Mean LED-lifetime	20.000 h
Pulse duration range	1µs - 65ms / continuous
Working distance	300mm (between 200 – 1000mm on request)
Illuminated line*	750 x 14mm
Electronics	
Power supply	24 V DC +/- 10%
Max. current consumption	20A
Communication	RS 485
Trigger level	5V TTL
Connectors	2 Harting connectors
Number of channels	9 (3 boards with 3 individual channels)
Mechanics	
Dimensions	(L) 966 x (W) 165 x (H) 147 mm
Weight	5,2 kg
Housing	anodised aluminium
IP code	IP 65
Operating conditions	
Temperature (operating)	-10 ... +50 °C
Temperature (storage)	-20 ... +65°C
Humidity	5% ... 95%, non-condensing

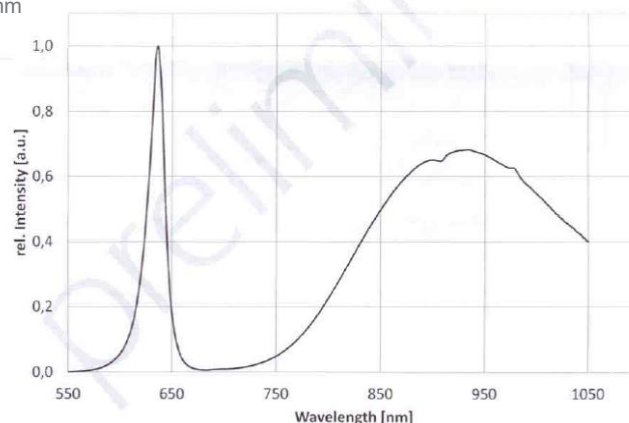
The lighting unit has a modular design with multiple boards of 300mm length. Variable lengths from 366 to 1516 mm are available on request.

Intensity and pulse duration can be configured separately for each channel.

In the standard configuration the lighting is assembled with VNIR LEDs, other LED wavelengths can be assembled optionally.

To assure high light throughput the window is AR-coated for the respective wavelength ranges. This LED line lighting is ideal for spectral imaging applications in the VNIR employing CMOS or CCD cameras.

* for a mechanical length of 966mm



preliminary spectral distribution of the vnir leds