## **Technical Sheet**

# GL SPECTIS 1.x series

Precise light measurement technology in a handy size.

GL **SPECTIS 1.x** is a high quality, easy to operate measuring device that gives you all you need for reliable light measurement. It is the perfect instrument for the measurement of LEDs, as well as for the final assessment of lamps or testing of complete lighting installations.

### Features:

- High sensitivity and precise calibration
- Low noise and stable measurements
- One device can work with multiple optical probes
- Ready to work when connected to PC
- Small size and low energy consumption
- Powered via USB connection
- Available in options for different spectral and sensitivity ranges



APPLICATION		
Natural light, LEDs, halogen light, et	c.	
LED MEASUREMENT		
llluminance (lux)*	10 lx 100 000 lx 10 lx 100 000 lx - 5 lx 50 000 lx	Spectis 1.0 Spectis 1.1 Spectis 1.2 Spectis 1.3
Luminance [cd/m²]	Available with optional GL Opti Probe	
Luminous flux [lm]	Available with optional GL Opti Sphere	
Luminous intensity [cd]	Calculated in GL Spectrosoft	
Illuminance class	Class B – DIN 5032-7 Class AA – JIS C 1609-1:2006	
Tolerance – cosine response (f2')	< 3 % (1.9 %)	
Spectral range**	340 – 780 nm (UVa – VIS) 340 – 780 nm (UVa – VIS) 640 – 1050 nm (VIS – NIR) 340 – 750 nm (UVa – VIS)	Spectis 1.0 Spectis 1.1 Spectis 1.2 Spectis 1.3

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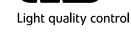
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OPTIC

IBAN NL29 RABO 0356 1960 46



# Seo

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Sensor		CMOS image sensor
Number of pixe		256
	tion / datapoint interval	~ 1.7 nm
Wavelength re		0.5 nm
Integration tim	ie	5 ms – 10 s
A/D converter		16 bit
Signal-to-noise	ratio	1000:1
Stray light		2*10 E-3
Optical resolut		10nm
Radiometric ac	curacy ***/****	5 % within range 340 – 500 nm 4 % within range 500 – 1050nm
Flicker comper	isation	V
Temperature so and dark curre	ensor nt compensation	<i>✓</i>
Uncertainty of	color coordinates ***	0.0015
Automatic acce	essory detection	$\checkmark$
GENERAL PR	ROPERTIES	
Power supply v	via USB connector	< 640 mA
Operating tem	perature	5 – 35 °C
Dimensions [H	x W x D]	62 mm x 115 mm x 28,3 mm (with standard diffuser)
Weight		125 g
Tripod adapter		√
INTERFACE &	R MEMORY	
JSB		USB 2.0
Measurement i	result storage	by GL Spectrosoft
Trigger		Available with GL SPECTIS 1.1 Open collector, minijack 3.5mm, 3-pin
Data format		XML
SOFTWARE		
Software		Optional GL SPECTROSOFT Basic / Pro / Lab
ORDERIN <mark>G</mark> I	NFORMATION	
Case		V
JSB cable		V
Part number:	Spectis 1.0 VIS Spectis 1.1 VIS Spectis 1.2 VIS-NIR Spectis 1.3 LS	GLX10 no. 67827 GLX11 no. 106294 GLX12 no. 106302 GLX13 no. 202031

Dynamic range is spectrum related and should be calculated separately for any light source. Estimated dynamic range for typical 4000 K white LED. Range estimated for optical system made to default specification. Alterations of that are often possible. Please consult technical support if you are looking for specific parameters.

Spectral range of the sensor. Actual spectral range of system may be reduced due to limitations of used optical accessory.

\*\*\* Absolute measurement uncertainty immediately after calibration. The expanded uncertainty corresponds to a coverage probability of 95 % and the coverage factor k = 2. Parameters valid in laboratory conditions 25deg C, relative humidity 45%.

\*\*\*\* Applies only within the spectral range of the given model.

Note: Instrument, firmware and software specification are subject to change without prior notice. All information included in GL OPTIC datasheets and product information available in any form are carefully prepared and included information believed to be true. Please note that discrepancies may occur due to text and/or other errors or changes in the available technology. We advise to contact GL Optic before the use of the product to obtain the latest product specification.

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Light quality control

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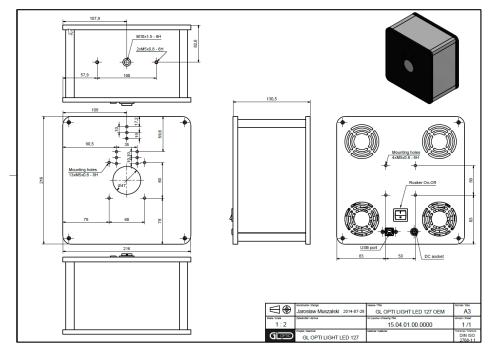
## PHOTONICS

## **Technical Sheet**

## GL OPTI LIGHT LED 127 CLC

### **TECHNICAL DRAWING**

OEM / Industrial applications



OEM/Industrial version features control capability via SDK

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GOPTIC Light measurement solutions

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