Revision date: 25 March 2025

Technical Sheet

GL **OPTICAM 4.0 M SC**

Spectraly corrected Imaging Luminance & Color Meter (ILCM) GL OPTICAM 4.0 M SC offers high resolution and sensitivity measurements of luminance and color parameters. Luminance uniformity of backlit symbols, chromatic coordinates and CCT of an individual element can be quickly verified using the newest GL Optic instrument. The system is based on modular technology which utilizes a luminance meter alongside a spectroradiometer.

Features:

- Measurement of luminance and color uniformity, chromaticity coordinates
- Results of measurement in less than 3 seconds
- Super fast GL OPTICAM SOFT 4.0 M software for luminance and color analysis
- Blue light hazard measurements possible
- System spectral range from 380 nm to 780 nm
- 9 MPix resolution CMOS sensor
- Lens detection

APPLICATION

Laboratory and industrial measurements, daily quality control of LED production
Atomotive interior lighting testing, display luminance & color uniformity assessment

SPECIFICATIONS

Imaging resolution	4096x2168 (4K, 9MPix)
A/D conversion	12 bit
Sensor size	1”
Pixel size	3.45 µm x 3.45 µm
Measuring sensor type	CMOS RGB matrix
Optical system	50 mm f/1.8 lens (different available on request)
Field of view	28,3 cm x 15 cm at 1 m distance *
Angle of view	16,12° x 8,6° *
Focusing distance	300 mm to ∞ *
Minimum working area	85 mm x 45 mm at 300 mm *
Measurement range (Illuminant A)	0.01 cd/m2 – 40 kcd/m2 (ND filter for higher range available on request)*
Resolution (Illuminant A)	0.01 cd/m2
Dynamic range	1:80000000
Chromaticity accuracy	± 0.030
Polarization sensitivity	2%
Integration time	50 µs – 10 s

GENERAL PROPERTIES

Dimmensions [H x W x D]	120 x 220 x 250 mm
Weight	4.5 kg
Ambient temperature range	5 – 35°C
Tripod mount thread	BSW 1/4” – 20
PC connection	Ethernet
Power supply	24 V / 2 A DC
Software	Dedicated PC software (Windows 7/10 64 bit)

* Parameters for 50 mm f/1.8 lens, may change with different lenses

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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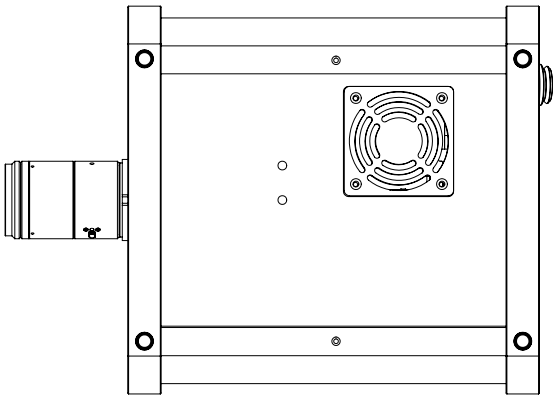
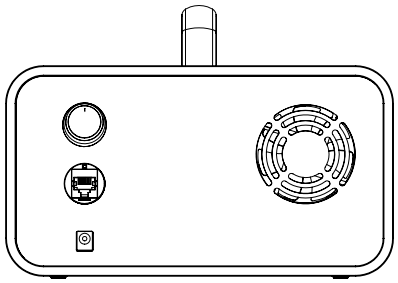
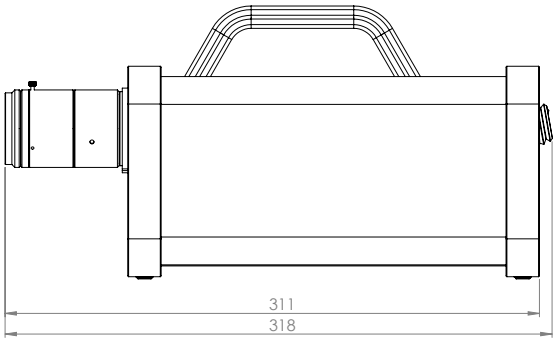
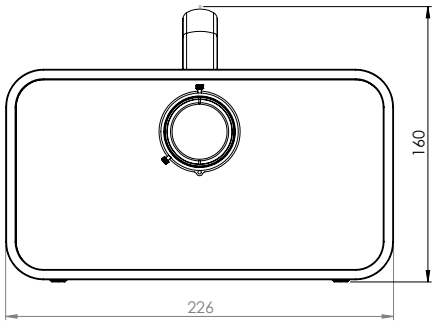
Light quality control

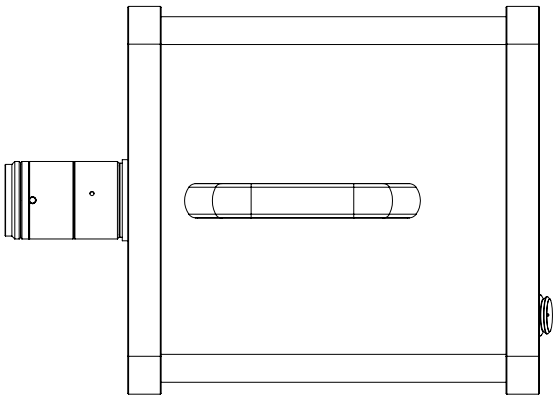
Technical Sheet











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Light quality control