

SSL LC-800.x

Photocurrent meter



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Advantages of new version for multichannel photocurrent meter

- Wider dynamic range of 9 decades
 - 4-channels for separation of X channel to X_{red} and X_{blue}
 - Larger bandwidth at smaller photocurrents
 - Improved sampling rate
 - On-the-fly measurement compatible
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- ☐ 1-4 Channel Transimpedance amplifier (TIA)
 - ☐ Measurement quantities:
 - ✓ Illuminance E_v (lx)
 - ✓ Effective Luminous Intensity
 - ✓ Flicker Index FI, Percent Flicker MI (%), Flicker Frequency (Hz)
 - ✓ Stroboscopic Visual Measure SVM
 - ✓ Short-term Perceptibility Light Modulation P_{st}^{LM}
 - ✓ CCT (K), CIE1931 xy, CIE1976 u'v'
 - ☐ 12V power supply
 - ☐ Data communication: RS-232 (DB9), USB B 2.0
 - ☐ Compatible with CH and LH measuring heads



Fig. Rear panel.

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Signal bandwidth*	Photocurrent range
15 kHz	200 nA – 18 mA
6 kHz	15 nA – 200 nA
700 Hz	1 nA – 15 nA
50 Hz	30 pA – 1 nA
SVM requirement: > 2 kHz	15 nA – 18 mA

* Optional: Bandwidth filter of 4kHz can be setup separately.

- ☐ Photocurrent measurement range:
 - ✓ 30 pA – 18 mA (high sensitivity acquisition mode)
 - ✓ 30 nA – 18 mA (on-the-fly acquisition mode)
- ☐ Linearity <0.1%
- ☐ Sampling rate
 - ✓ Timed sampling: 100 kHz (10μs)
 - ✓ Maximum: ~200 kHz (5μs)
 - ✓ SVM: 36 kHz (1s measuring time)
 - ✓ P_{st}^{LM} : 2 kHz (1-5min)
- ☐ Package includes: LC-800, 12V power supply, 1.8m USB cable, 1.8m RS-232 cable.

SSL CH400x

Color Measuring Head

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New 4-channel tristimulus colorimeter head with common input optics

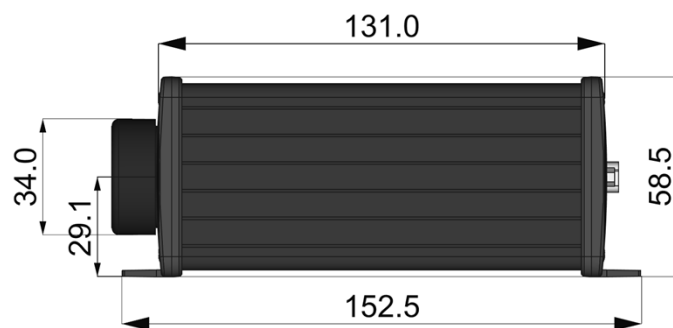
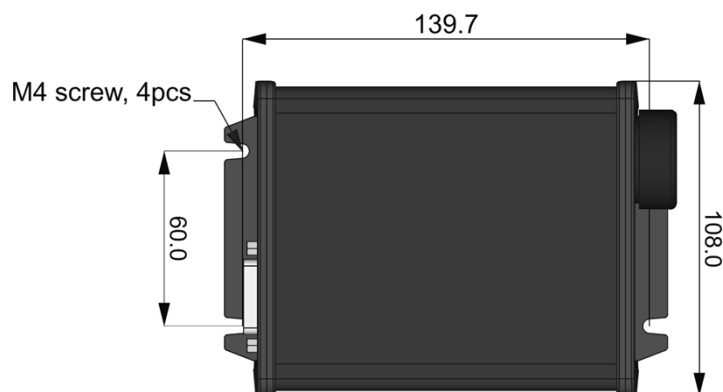
Benefits:

- ✓ No errors due to the drastic changes in light beam
- ✓ Shorter min. distance

Perfect solution for

- ✓ Sector light
- ✓ Gonioscolorimeter

CH	Aperture (mm)	S_{Ev} (nA/ lx)	f_1'	FOV ⁽¹⁾	Min. D ⁽²⁾ (m)	Illuminance range (lx)
CH4001	6.0	1.7	Y: 3% X _r : 3%	10.4°	3.4	2 E-2 – 5 E+6
CH4002	14.4	10	X _b : 3% Z: 3.5%	3.1°	8.3	3 E-3 – 8 E+5



⁽¹⁾ FOV = Detection field-of-view of each sensors.

⁽²⁾ Min. D = Minimum distance to cover all sensors into the angular full field-of-view of 0.1° (corresponding angular accuracy in goniometric measurements).