

Spectra-CT Color Tunable Spectral Calibration Source

Ultra-uniform, high dynamic range, luminance/CCT tunable surface light source for camera and sensor calibration



Spectra-CT integrating sphere based uniform light sources utilize warm white and cool white LEDs controlled by a high-precision programmable DC power supply. With the active cooling system inside, the output is kept stable over a broad range of luminance levels up to 50,000 cd/m².

Simple and convenient software is provided together with the system for CCT selection, luminance adjustment together with related system information. For advanced applications such as multi-system integration, software API is available. Spectra-CT is an ideal source for camera and sensor calibrations in both R&D and manufacturing applications.

Features

- Extremely high uniformity
- High dynamic luminance output range
- Accurate and fast LED control to achieve preset CCT and luminance
- Built-in luminance monitor for real-time luminance monitoring
- User friendly software and easy to use

Applications

Mainly used for camera calibration and characterization such as flat field correction, linearity calibration, dark correction in the areas of:

- Display panel inspection cameras
- In-vehicle cameras
- Cameras and ambient light sensors in consumer electronics
- Luminance meter and colorimeter response correction

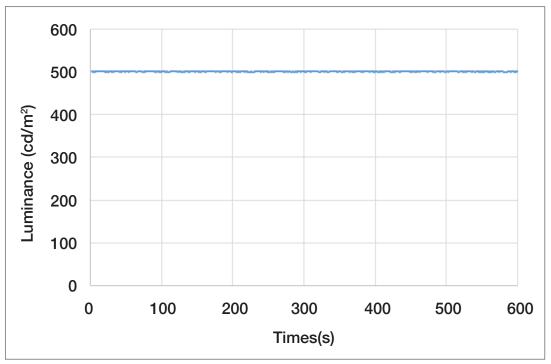


Software Features

- Light source programmable drive current
- User selectable luminance levels
- User selectable CCT between 2800K and 7500K
- Display:
 - Light source drive currents
 - Set luminance
 - Source luminance
 - Set CCT
 - Luminance monitors gain and control

Labsphere Spectra-CT		- 🗆 ×
Devices		
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CH2	10000.0	
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CH4 United Action CH4	Range 3	Luminance Nit
Device Status : System Connected System SN: 0133		

Example of Software User Interface



Example of Luminance Stability over 10 min at 500 cd/m²



Specifications and Ordering Information

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240 VAC 50/60 Hz
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x 71.5 x 57

* Luminance range is achieved under certain CCT

** Luminance uniformity is under NIST COV(Coefficient of Variation) calculation method

Spectra-CT sources are products of Labsphere Shanghai Optical Equipment.

