

MUSS-0750-BF Integrating Sphere Uniform Light Source



The MUSS-0750-BF is a uniform, adjustable spherical light source specially designed for large-field-of-view cameras. Like ordinary camera calibration light sources, it provides highly uniform luminance output at the opening, and different color temperatures can be obtained by switching light sources, allowing the camera to be calibrated under various color temperatures. With a special design, the camera under test is mounted on a dedicated fixture and shoots toward the inside of the sphere through the output port. Mate Optronics can currently provide calibration for large-field-of-view cameras up to 220°.

Specification

Item	Parameter	Qty
Integrating Sphere	Inner diameter: Φ750mm	1 pc
Sphere Output Port	Diameter: Φ200mm (customizable)	1 pc
LED Light Source	3000K / 4000K / 5000K / 6000K	3 pcs/set
Light Source Power Supply	DC power supply	3 channels
Adjustable Iris	Manual iris	3 pcs
Port Uniformity	≥97% @ 100mm	/
Port Brightness Level	0 ~ 1500 Lux (continuously adjustable)	/

Product Features

- Large diameter Φ750mm sphere for large-field-of-view cameras.
- Switchable LED light sources at 3000K / 4000K / 5000K / 6000K for multi-color-temperature calibration.
- Highly uniform luminance output at the port.
- Supports field of view up to 220°.

Application Area

- Large-field-of-view camera calibration
- Camera and image-sensor testing under different color temperatures
- Uniform light source / luminance calibration
- Laboratory and production quality inspection