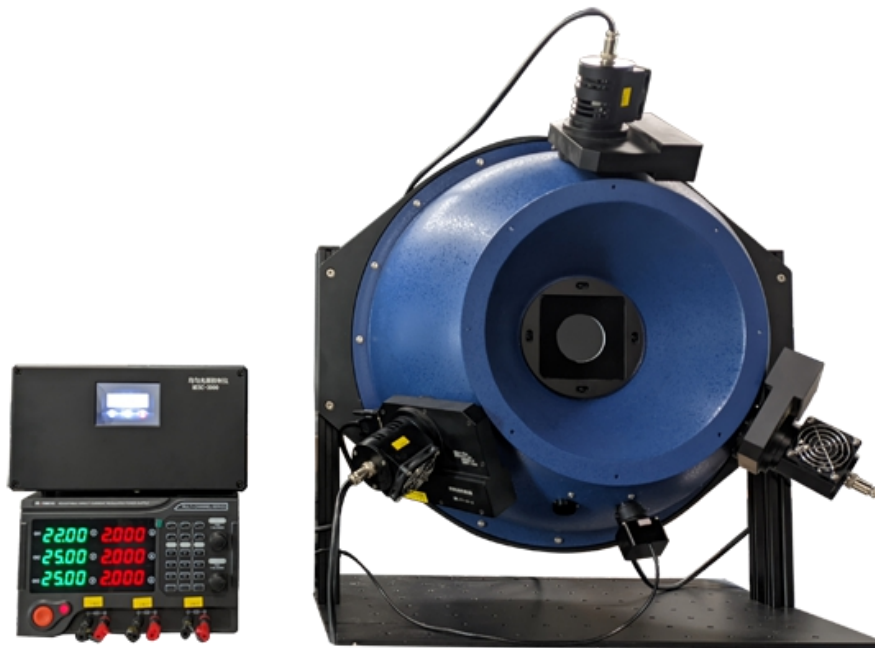


MUSS-0500XF Integrating Sphere Uniform Light Source



The MUSS-0500XF 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. 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. Three motorized adjustable irises are installed at the front of the source, allowing the three channels to be adjusted synchronously by software without changing the color temperature. A halogen lamp is used by default; other light sources can be selected to meet different testing requirements.

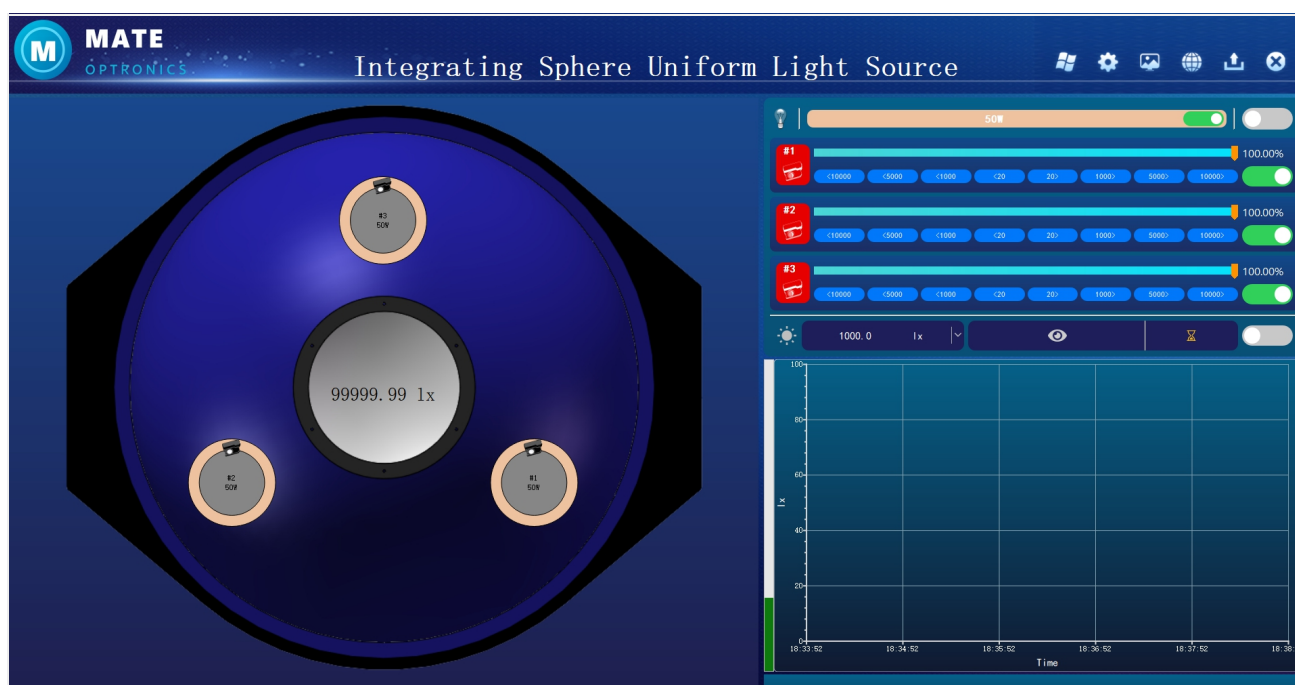
Specification

Item	Parameter	Qty
Integrating Sphere	Inner diameter: $\Phi 500\text{mm}$	1 pc
Sphere Output Port	Diameter: $\Phi 60\text{mm}$ (customizable)	1 pc
Light Source	Halogen lamp, 3000K (customizable)	3 sets
Light Source Power Supply	DC power supply	3 channels
Adjustable Iris	Motorized iris	3 pcs
Camera Transmission Mechanism	Customizable per camera under test	1 set
Cabinet	Houses controller & power supply (optional)	1 set
Uniform Light Source Controller	MUSC-3000, with illuminance monitoring and probe	3 pcs
Port Uniformity	$\geq 99\%$ @ 50mm	/
Port Brightness Level	0 ~ 1800 Lux (continuously adjustable)	/
Field of View	$\geq 180^\circ$	/

Product Features

- Real-time monitoring of output-port illuminance / luminance.
- Intelligent illuminance control: enter a target luminance value and the software adjusts automatically.
- Smart lamp ignition: one-click synchronous lighting of lamps at the same power, or manually light each lamp by clicking its position on the main interface.
- Synchronized motorized iris adjustment: the three irises can be locked and adjusted together with a single slider.

Software Interface



Application Area

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