

MUSS-1000 Integrating Sphere Uniform Light Source



The integrating sphere uniform light source provides a stable optical illumination environment for the device under test. The output brightness is adjusted through software-controlled adjustable irises for radiometric calibration and performance testing, allowing various performance parameters of different cameras to be verified. This system adopts a $\Phi 1000\text{mm}$ integrating sphere; larger spheres can be customized for bigger port requirements, and other light sources such as infrared, ultraviolet and far-infrared are also available on request.

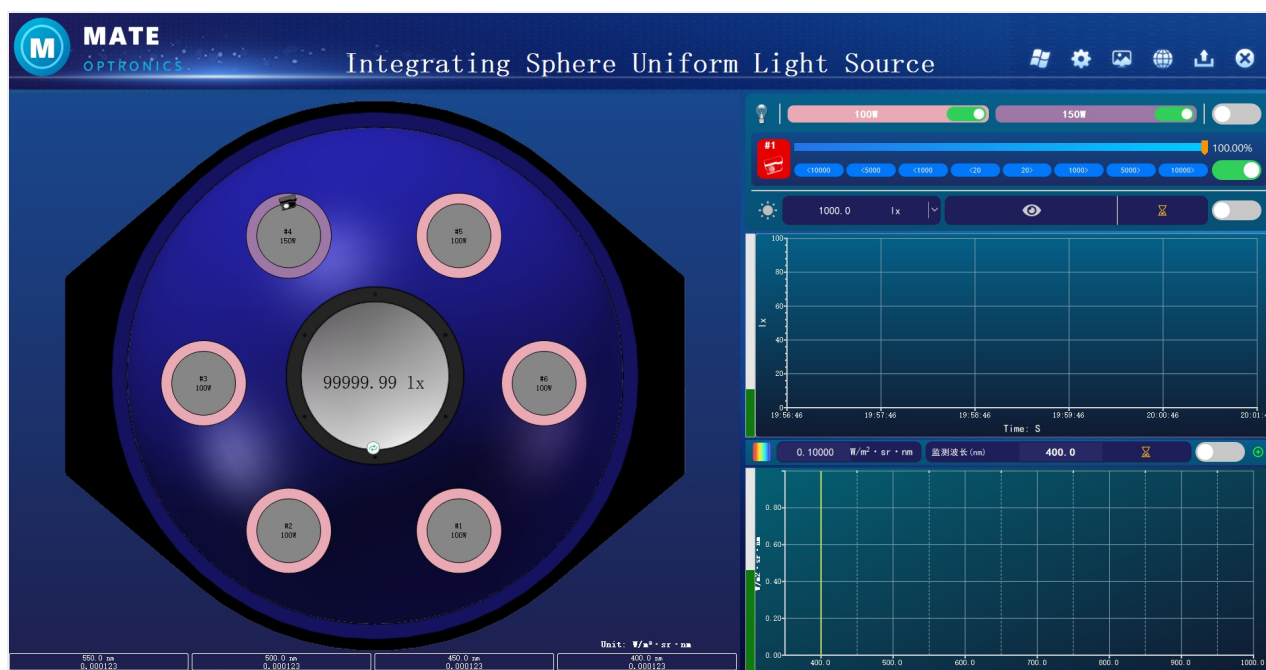
Specification

Item	Parameter	Qty
Integrating Sphere	Inner diameter: Φ1000mm	1 pc
Sphere Output Port	Diameter: Φ300mm	1 pc
Light Source	3000K, 300~2000nm	5 pcs
Light Source Power Supply	Precision regulated DC power supply	5 channels
Continuously Adjustable Iris	Driven by stepper motor, program-controlled	1 pc
Uniform Light Source Controller	MUSC-3000, with illuminance monitoring and probe	1 pc
Spectroradiometer	MSPEC-3000, 350-1000nm	1 set
Cabinet	Houses controller, spectroradiometer and power supply	1 set
Port Uniformity	≥98% @ 280mm	/
Port Illuminance	0 ~ 20000 Lux (continuously adjustable)	/

Product Features

- Large $\Phi 1000\text{mm}$ integrating sphere with program-controlled adjustable irises.
- Five 3000K light sources (300~2000nm) on precision regulated DC power.
- MUSC-3000 controller with illuminance monitoring probe.
- MSPEC-3000 spectroradiometer (350-1000nm) built in.
- High uniformity $\geq 98\%$ @ 280mm, illuminance 0~20000 Lux.

Software Interface



Application Area

- Large integrating sphere uniform light source calibration
- Camera performance testing and radiometric calibration
- Luminance / illuminance and spectral response measurement
- Laboratory and production quality inspection