

## OST-500 光辐射安全测定系统

### OST-500 Optical Radiation Safety Measurement System

- OST-500为200-3000nm全波段范围光辐射安全测试系统，参考IEC/EN 62471/CIE S009, IEC/TR 62778, GB7000.1-2015,GB/T 20145, IEC/EN 60598 Annex P., IEC/EN 60432, IEC/EN 60335,GB/T34075-2017, GB/T34034-2017,2009/125/EC欧盟指令等相关标准。系统配备精密自动双轴转台，可自动寻找和获取最大辐射位置，并在最大辐射位置自动测量各种灯和灯系统（LED产品、紫外灯、照明光源和灯具等）的光生物危害值，进行安全等级分类。

OST-500 is a 200-3000nm full band optical radiation safety test system. Refer to IEC/EN 62471/CIE S009, IEC/TR 62778, GB7000.1-2015, GB/T 20145, IEC/EN 60598 Annex P., IEC/EN 60432, IEC/EN 60335, GB/T34075-2017, GB/T34034-2017,2009/125/EC EU directives and other relevant standards. The system is equipped with a precision automatic double axis turntable, which can automatically find and obtain the maximum radiation position, and automatically measure the photobiological hazard value of various lamps and lamp systems (LED products, ultraviolet lamps, lighting sources and lamps, etc.) at the maximum radiation position for safety classification.



技术参数 Specifications

- 系统覆盖范围：200nm~3000nm  
System coverage: 200nm~3000nm
- 波长准确度：0.1nm（最高）  
Wavelength accuracy: 0.1nm (maximum)
- 辐亮度测量几何：符合CIE/IEC眼瞳模拟条件  
Radiance measurement geometry: meet CIE/IEC pupil simulation conditions
- 成像辐亮度计：16位科学级制冷CCD，超百万像素  
Imaging radiometer: 16 bit scientific grade cooling CCD, super megapixel
- 测量视场：100mrd/11mrd/1.7mrd或其他任意视场，符合CIE/IEC标准要求  
Measuring field of view: 100mrd/11mrd/1.7mrd or any other field of view, meeting the requirements of CIE/IEC standards
- 样品的最大重量：50kg  
Maximum weight of sample: 50kg
- 样品最大尺寸：1.5m  
Maximum sample size: 1.5m
- 自动找到灯具最大光强点，自动识别危害加权辐射值最大的区域  
Automatically find the maximum light intensity point of the lamp, and automatically identify the area with the maximum hazard weighted radiation value
- 所有配套设备均由软件程控，自动化程度高，操作简单方便  
All supporting equipment are programmed by software, with high degree of automation and simple and convenient operation
- 量值可溯源至美国国家标准技术研究院（NIST）或中国计量院（NIM）  
The measurement value can be traced to National Institute of Standards and Technology (NIST) or China Institute of Metrology (NIM)
- 脉冲灯测试：由高精度脉冲测试模块，专用软件组成，配合常规光生物安全测试系统可实现脉冲光源测量。（选项）  
Pulse lamp test: It is composed of high-precision pulse test module and special software, and can be used to measure pulse light source with conventional optical biosafety test system. (Option)
- 激光辐射测试：波段覆盖范围：200-1600nm，测量激光产品在测量条件1、条件2和条件3下的最大可达辐射功率（或能量），满足IEC 60825标准要求。（选项）  
Laser radiation test: band coverage: 200-1600nm, measure the maximum radiation power (or energy) of laser products under measurement conditions 1, 2 and 3, and meet the requirements of IEC 60825 standard. (Option)

