

## 激光器光辐射安全测试系统 Laser Optical Radiation Safety Testing System

- 本测试系统参考IEC60825-1:2007和IEC60825-2014中关于测量和评价辐射危害的要求，能根据各种产品的特性（空间光强分布等），以合适的测量几何来测量产品的可达发射及最大危害辐射，并计算出相应的可达发射极限，评定LED产品的辐射安全等级。

This test system refers to the requirements for measuring and evaluating radiation hazards in IEC60825-1:2007 and IEC60825-2014. It can measure the reachable emission and maximum hazardous radiation of products with appropriate measurement geometry according to the characteristics of various products (spatial light intensity distribution, etc.), calculate the corresponding reachable emission limit, and evaluate the radiation safety level of LED products.

It is easy to operate. Users can accurately measure the size of the apparent light source of LED products according to the software prompts and the corresponding steps. The maximum hazardous radiation test is carried out. The software classifies the safety level of LED products to obtain the relevant effective radiation value.



**技术参数 Specifications**

- 光学导轨：6m，刻度误差 <0.1mm/m;  
Optical guide: 6m, calibration error < 0.1mm/m;
- 光谱波长测量范围:380-780nm;  
Spectral wavelength measurement range: 380-780nm;
- 辐亮度测量精度：±5%;  
Radiance measurement accuracy: ± 5%;
- 辐射曝光量测试精度：±5%;  
Radiation exposure test accuracy: ± 5%;
- 高精度CCD相机：16位A/D转换;  
高精度CCD相机：16位A/D转换;
- 专用测试软件具备各种光源的辐射安全等级评定功能，提供LED产品的表观光源，最大危害辐射，等效辐射等参量测量功能。  
The special test software has the radiation safety rating function of various light sources, and provides the measurement function of LED products' apparent light source, maximum hazardous radiation, equivalent radiation and other parameters.