

EX-1000荧光粉激发光谱与热猝灭分析系统

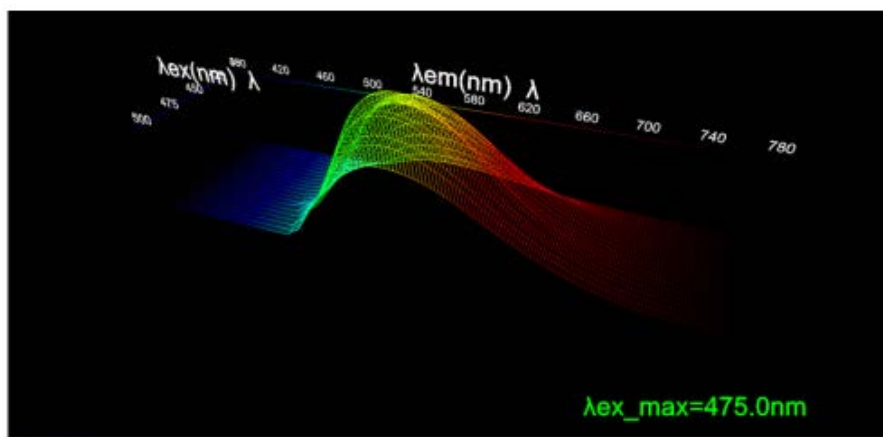
EX-1000 phosphor excitation spectrum and thermal quenching analysis system

- 荧光粉国家标准验证试验设备

Fluorescent powder national standard validation test equipment

- 可测量稀土三基色荧光粉、白光LED灯用稀土黄色荧光粉等各类荧光粉的激发光谱特性、发射光谱特性和量子效率，有利于筛选高效的激发光谱，或者在激发光源特定的前提下，改进荧光粉的激发光谱特性，以实现更高的激发-发光转化效率。系统也可测量荧光粉在真实工作状态（高温状态）下的发光特性（热猝灭特性）。

It can measure the excitation spectral characteristics, emission spectral characteristics and quantum efficiency of rare earth tricolor phosphors, rare earth yellow phosphors for white LED lamps and other types of phosphors, which is conducive to screening efficient excitation spectra, or improve the excitation spectral characteristics of phosphors under the premise of specific excitation light sources to achieve higher excitation luminescence conversion efficiency. The system can also measure the luminous characteristics (thermal quenching characteristics) of the phosphor under the real working state (high temperature state).



激发-发射光谱



发射光谱特性

技术参数 Specifications

- 光谱范围：200~800nm;
Spectrum range: 200~800nm;
- 激发光源的激发光谱功率校准可溯源至NIST绝对光辐射标准探测器;
The excitation spectral power calibration of the excitation light source can be traced to the NIST absolute optical radiation standard detector;
- 设置监视探测器，监视激发光源的稳定性，实时补偿光源波动;
Set monitoring detector to monitor the stability of excitation light source and compensate the fluctuation of light source in real time;
- 具备三维激发-发射光谱图、二维激发光谱图、二维发射光谱图、温度-亮度图、颜色分析、外量子效率测定等功能。
It has the functions of three-dimensional excitation emission spectrogram, two-dimensional excitation spectrogram, two-dimensional emission spectrogram, temperature brightness diagram, color analysis, external quantum efficiency measurement, etc.