GO-5000UV 总辐射通量及分布测试系统
GO-5000UV total radiation flux and distribution test system

- 属于GO-R5000家族系列产品
  GO-R5000 family products
- 国家863（高技术研究发展计划）项目研究成果
  Research achievements of the National 863 (High Technology Research and Development Plan) project
- 获“美国发明专利授权”，专利号US 7,800,745 B2
  Obtained the "American Invention Patent Authorization" with the patent number of US 7800745 B2
- 获“中国专利优秀奖”，10余项国家发明专利
  Won the "China Patent Excellence Award" and more than 10 national invention patents
- 实现紫外光源及灯具的紫外总辐射通量最高精度的测量
  Achieve the highest precision measurement of total ultraviolet radiation flux of ultraviolet light source and lamp

特点与优势 Characteristics and advantage

- 1）用于各种紫外光源及灯具的总辐射通量的高精度测试；
  1) Used for high-precision test of total radiation flux of various ultraviolet light sources and lamps;
- 2）测量各种尺寸光源和灯具的最高精度紫外总辐射通量测量方法，符合CIE技术文件的推荐；
  2) The method for measuring the highest precision total ultraviolet radiation flux of light sources and lamps of various sizes, which conforms to the recommendations of CIE technical documents;
- 3）用于实现各种紫外LED模组或紫外光源(被测光源在特定尺寸范围内)的空间辐射强度分布（配光曲线）的高精度测试；
  3) It is used to realize high-precision test of spatial radiation intensity distribution (light distribution curve) of various UV LED modules or UV light sources (the measured light source is within a specific size range);

技术参数 Specifications

- 灯具自身可旋转(C)： 0~360°，反射镜可绕灯具旋转(γ)： -180°~180°；
  The lamp itself can rotate (C): 0~360°, and the reflector can rotate around the lamp（γ)： -180°~180°；
- 转动测角精度：C轴、γ轴均为0.1°， 角度控制分辨率0.001°
  Rotation angle measuring accuracy: C-axis γ The axis is 0.1°, and the angle control resolution is 0.001°；
- 最大被测灯具（含灯具与夹具）规格：
  Specification of the maximum tested lamp (including lamp and fixture):

型号	尺寸(mm)	重量(kg)
GO-5000UV	1200	50

- 配紫外专用辐射度测量探测器，可实现UVA、B、C波段光源的辐射测试；
  It is equipped with a special ultraviolet irradiance measurement detector, which can realize the radiation test of UVA, B and C band light sources;
- 系统配合紫外光谱辐射计可测量紫外光源的相对光谱功率分布，峰值波长，半宽度、辐照度、辐照度分布（特定距离下，具体需视辐射强弱而定）等参数，并能实现紫外不同波长紫外LED辐照度的精确测量，从而实现紫外光源和LED辐通量的精确测量。
  The system can measure the relative spectral power distribution, peak wavelength, half width, irradiance, irradiance distribution (depending on the intensity of radiation at a specific distance) and other parameters of the UV light source in combination with the UV spectral radiometer, and can achieve accurate measurement of UV LED irradiance at different wavelengths of UV, so as to achieve accurate measurement of UV light source and LED radiant flux.
- 波长范围:200nm-450nm；
  Wavelength range: 200nm-450nm;
- 光谱辐照度测量范围：0-20000uw/cm2（不同波段测量范围不同，特殊范围可定制）
  Spectral irradiance measurement range: 0-20000uw/cm2 (different measurement ranges for different wavebands, special ranges can be customized)