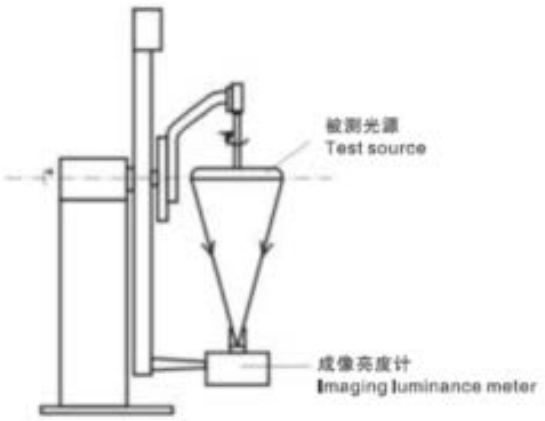
GO-NR1000近场分布光度计
GO-NR1000 near-field distribution photometer

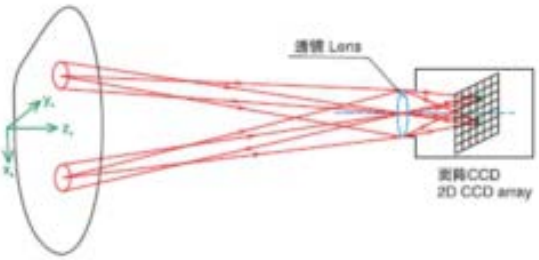
- 适用于LED封装、光学透镜、镜头等近场光度测量，用于二次光学设计；
- 成像亮度计采用TE制冷，保证其稳定性；
- 可搭载光度计和光谱辐射计，测量空间分布颜色等参数。

Suitable for near-field photometric measurement of LED package, optical lens, lens, etc., for secondary optical design;
The imaging luminance meter adopts TE refrigeration to ensure its stability;
It can carry photometer and spectroradiometer to measure parameters such as spatial distribution color.

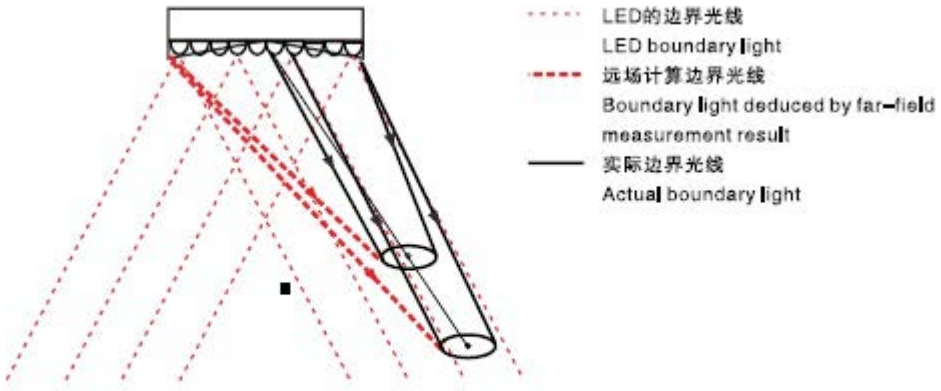
近场分布光度计采用基于二维CCD的成像亮度计作为探测原件。如图所示成像亮度计绕被测光源（如LED）旋转，测量记录光源在各个方向上的亮度分布，即光源上各发光点在各方向上的光通量，进而建立待测光源的实际光线分布模型，该模型可以输入光学设计软件中用于灯具的配光设计和照明现场设计。

The near-field distribution photometer uses an imaging luminance meter based on a two-dimensional CCD as the detection element. As shown in the figure, the imaging luminance meter rotates around the measured light source (such as LED) to measure and record the luminance distribution of the light source in all directions, that is, the luminous flux of each luminous point on the light source in all directions, and then establish the actual light distribution model of the light source to be measured. This model can be input into the optical design software for the light distribution design and lighting site design of the lamps.





- 传统分布光度计测量光源在远距离下的光分布，然而，当发光体距离被照工作面较近时，其光分布于远场光分布可能存在很大差异。如图所示，由多颗具有一定光束角的LED组成的LED灯具在近场的各个距离下光分布存在很大差别
  The traditional distribution photometer measures the light distribution of the light source at a long distance. However, when the illuminant is close to the illuminated working surface, the light distribution at the far field may be very different. As shown in the figure, the light distribution of LED lamps composed of several LEDs with a certain beam angle varies greatly at various distances in the near-field



LED灯具不同距离被照面的光线
Light ray in every distance of emitted surface by LED luminaires

- 近场分布光度计可为被测样品建立起真实的光线模型，可为光学设计提供更为详尽的数据。
  The near-field distribution photometer can establish a real light model for the measured sample and provide more detailed data for optical design.

技术参数 Specifications

- **基本工作原理**

近场分布光度计系统包括：双轴自动转台、调节机构、成像亮度计部件、光度探头、控制及测试软件。双轴自动转台能够带动成像亮度测量装置绕光源转动及光源自身转动，并通过调节机构调节光源的精确位置以及角度的精确定位实现对光源近场空间任意位置的测量。整个系统由计算机和测控软件控制，自动完成各项测试任务。

Basic working principle

The near-field distribution photometer system includes: dual axis automatic turntable, adjusting mechanism, imaging luminance meter components, photometric probe, control and test software. The double axis automatic turntable can drive the imaging brightness measurement device to rotate around the light source and the light source itself, and adjust the precise position of the light source and the precise positioning of the angle through the adjustment mechanism to achieve the measurement of any position in the near-field space of the light source. The whole system is controlled by computer and measurement and control software to automatically complete various test tasks.

- **技术指标**

Technical indicators

- 水平轴（γ轴）转动范围为：-118°~+118°

Horizontal axis（γ Shaft) rotation range: - 118°~+118°

- 竖直轴（C轴）转动范围为：0°~360°

Rotation range of vertical axis (C-axis): 0°~360°

- 转动角度精度为：0.1°

Rotation angle accuracy: 0.1°

- 被测光源发光面尺寸：0.5mm-30mm（特殊可定制）

Size of the luminous surface of the measured light source: 0.5mm-30mm (specially customizable)

- 成像亮度计的亮度准确度等级：一级

Luminance accuracy level of imaging luminance meter: Level I

- **技术文件格式**

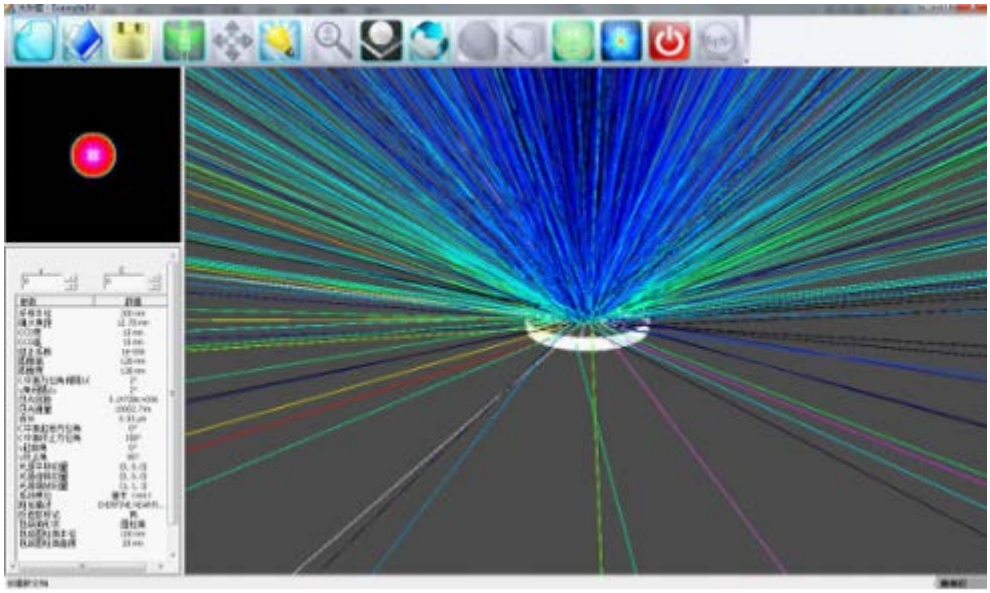
Format of Technical Documents

- 光线输出格式：Tracepro等

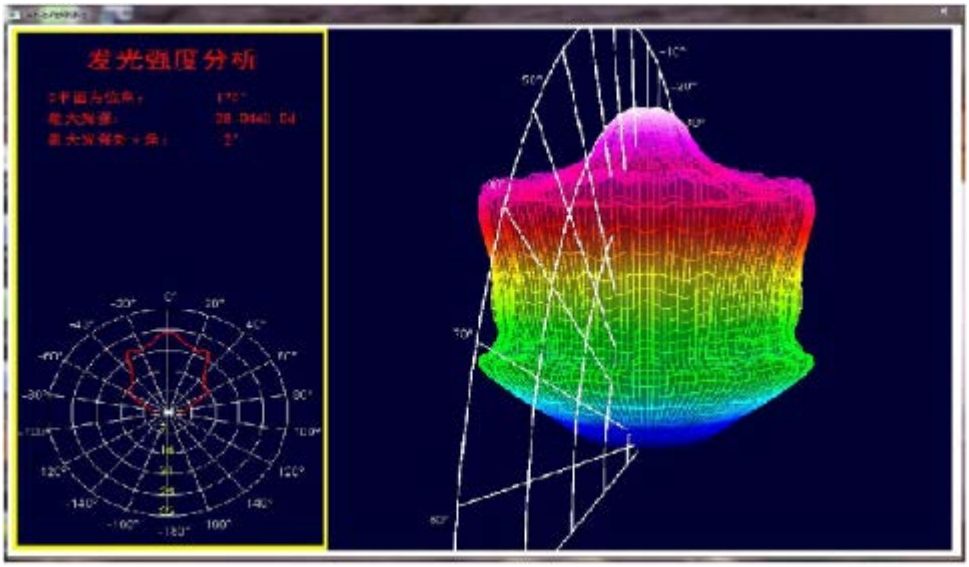
Ray output format: Tracepro, etc

- **测试界面**

Test interface



- 测试光线界面显示图
  Test interface



- 测试光线界面显示图
  Test light interface display diagram