ALPS-3000氛围灯光学特性测试系统
ALPS-3000 Atmosphere Lamp Optical Characteristics Test System

● 专为汽车氛围灯光学特性高精度测试而设计，集高精度成像彩色亮度计、精密三维移动平台及精密对准系统、氛围灯专用光度色度测试软件于一体。系统可测试氛围灯、导光条等亮度、色度及均匀性等主要参数。

It is specially designed for high-precision testing of optical characteristics of automotive atmosphere lamps, integrating high-precision imaging color luminance meter, precision three-dimensional mobile platform and precision alignment system, and special photometric and colorimetric testing software for atmosphere lamps. The system can test the main parameters such as brightness, chromaticity and uniformity of atmosphere lamp and light guide strip.

特点与优势 Characteristics and advantage

- **系统主要功能：**
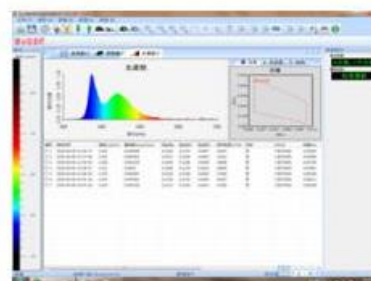 Main functions of the system:

- 点击测试，即得整个光导的亮度均匀性、色度均匀性测试信息；
  Click test to get the test information of brightness uniformity and chromaticity uniformity of the entire optical waveguide;

- 系统可测量某一段区域的亮度、亮度均匀性、色温、色坐标、色度均匀性、亮度及色度图像信息测试；
  The system can measure the luminance, luminance uniformity, color temperature, color coordinate, chromaticity uniformity, luminance and chromaticity image information of a certain area;

- 用户可自行设置不同亮度不同均匀性的表征的彩色图像显示；
  The user can set the color image display characterized by different brightness and uniformity;

- 软件中可选取任意某一段显示出导光条的平均亮度、平均色度测量数据；
  The software can select any section to display the average brightness and average chromaticity measurement data of the light guide strip;

- 可设定光导不同区域段的判别标准，也可针对不同规格的光导设定不同的判别标准，测试时用户可随意调用判别标准；
  It can set the criteria for different areas of the photoconductor, and it can also set different criteria for different specifications of photoconductors. The user can call the criteria at will during the test;

- 软件能够导出被测产品图片及所测数据，并自动保存测试数据。
  The software can export the tested product pictures and tested data, and automatically save the test data.
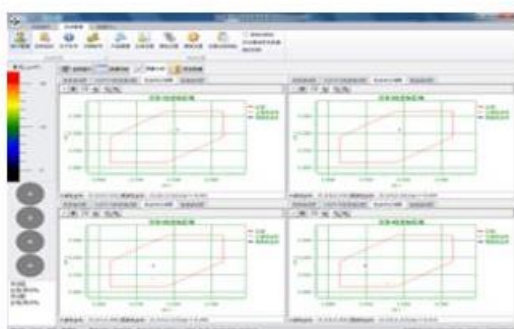
- 软件测试界面：
  Software test interface:

亮度伪彩色图

光谱分布

色品分区

亮度变化曲线

技术参数 Specifications

- 1）精密XYZ三轴平移台采用铝合金型材设计，实现对光学测量设备的装夹、定位和三轴位移的控制：
1) The precision XYZ three-axis translation table is designed with aluminum alloy profiles to realize the clamping, positioning and three-axis displacement control of optical measuring equipment:

- 2)X轴、Y轴、Z轴配进口伺服电机控制，软件控制自动移动，可实现对各种尺寸大小的分为氛围灯、光导的精准测试；
2) The X axis, Y axis and Z axis are controlled by imported servo motors, and the software controls automatic movement, which can realize accurate testing of various sizes of atmosphere lamps and light guides;

- 3）测量参数：亮度、亮度分布、色度、色度均匀性；
3) Measurement parameters: luminance, luminance distribution, chromaticity, chromaticity uniformity;

- 4）配氛围灯专用光度色度测试软件，软件功能强大，可实现氛围灯光导点、线、面上的光亮度、亮度均匀性、色品坐标、颜色均匀性等参数，涵盖了被测对象的光及颜色参数。
4) It is equipped with a special photometric and colorimetric test software for atmosphere lights. The software has powerful functions and can realize the parameters such as brightness, brightness uniformity, chromaticity coordinates, color uniformity, etc. on the guide points, lines and surfaces of atmosphere lights, covering the light and color parameters of the tested object.