OA-3000车灯在线调光测试系统
OA-3000 On line Dimming Test System for Lamps

- 远方OA-3000是专为车灯生产制造过程质量控制而设计研发的一款前照灯光形在线调整、快速测量的系统。该系统集精密光学测量单元、精密供电单元和人工智能算法于一体，有效融合了国际标准、国家标准和人类视觉识别判断功能，并配备大显示屏，系统操作方便，测量精确，性能稳定，能有效地在线检测车灯的光型及各项配光参数。

Yuanyuan OA-3000 is a headlamp shape online adjustment and rapid measurement system designed and developed for the quality control of lamp manufacturing process. The system integrates precision optical measurement unit, precision power supply unit and artificial intelligence algorithm, effectively integrates international standards, national standards and human visual recognition and judgment functions, and is equipped with a large display screen. The system is easy to operate, accurate in measurement, stable in performance, and can effectively detect the light pattern and various light distribution parameters of the lamp online.

特点与优势 Characteristics and advantage

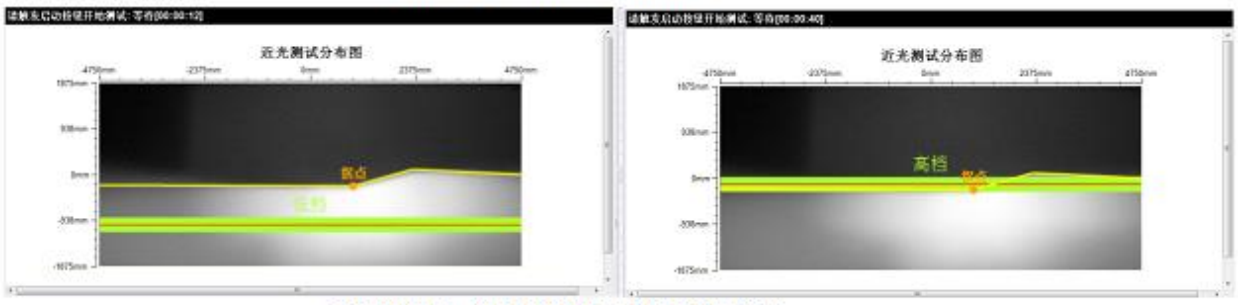
- **主要特点：**
  Main features:
- 1. 精密匹配V(λ)光学探测器、优质成像系统，测量更准确；
  1. Precision matching V（λ) Optical detector, high-quality imaging system, more accurate measurement;
- 2. 高动态范围成像技术（HDR)，可准确检测到明暗截止线；
  2. High dynamic range imaging technology (HDR) can accurately detect the cut-off line;
- 3. 占用空间小，不需要配备暗室；
  3. It takes up little space and does not need to be equipped with a dark room;
- 4. 专业在线光型分析软件可处理分析各类光形的明暗截止线、精准判定拐点位置
  4. Professional online light profile analysis software can process and analyze the cut-off lines of various light profiles, and accurately determine the inflection point position
- 5. 配调光电机，光型能够快速调节至限定范围
  5. Equipped with light adjusting motor, the light pattern can be quickly adjusted to the limited range

技术参数 Specifications

- **主要功能：**
  Main functions:
- 1、近光明暗截止线形状
  1. Shape of cut-off line of passing beam
- 2、近光明暗截止线拐点位置判断
  2. Judgment of inflection point position of low beam dark cut-off line
- 3、近/远光HV点以及各关键测试点的照度分布
  3. Illumination distribution of HV points of passing beam/driving beam and key test points
- 4、明暗截止线的锐度以及锐度因子G值等分析；
  4. The sharpness of the cut-off line and the sharpness factor G value were analyzed;
- 5、自动合格判定
  5. Automatic qualification judgment
- 6、自动调光
  6. Automatic dimming
- 7、可增加ADB测试模块功能及AFS测试模块功能；
  7. ADB test module function and AFS test module function can be added;

- **测试软件界面：**

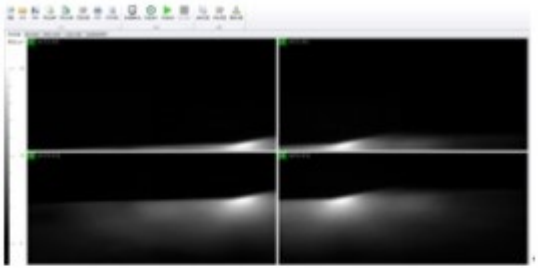
精准判断明暗截止线及拐点位置



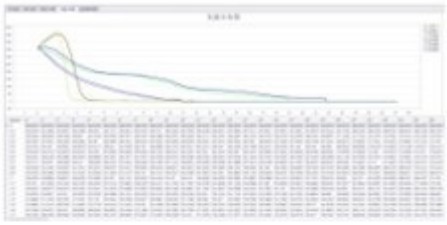
配调光电机，光型能够快速调节至限定范围

技术参数 Specifications

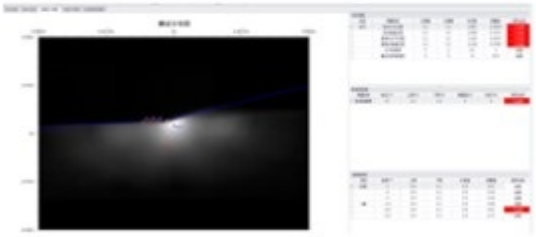
- **软件界面：**



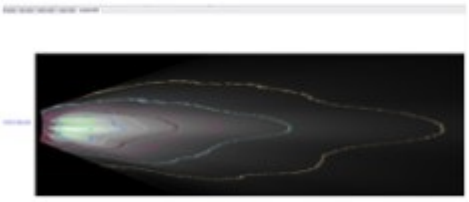
实时光型



光强分布图



照度分布图



路面等照度图

- **C-NCAP 评价系统软件（选配）**
  C-NCAP evaluation system software (optional)
- 快速配光测试系统配上 C-NCAP 评价模块，可将左右灯数据进行拟合， 得到完整路面照度分布图， 通过相应软件功能，计算 C-NCAP 评分。 软件根据官网公开资料《C-NCAP管理规则 2021年版》编写。主要功能如下：
  The fast light distribution test system is equipped with the C-NCAP evaluation module, which can fit the left and right light data to obtain a complete road illumination distribution map, and calculate the C-NCAP score through the corresponding software functions. The software is compiled according to the official website publication C-NCAP Management Rules 2021. The main functions are as follows:
- 1. 将 OA-LAB 快速配光测试系统测得的左右灯路照图数据进行合成， 得到完整路照图数据；
  1. Synthesize the left and right lamp road map data measured by the OA-LAB rapid light distribution test system to obtain complete road map data;
- 2. C-NCAP 的前照灯道路照明性能评测
  2. C-NCAP headlamp road lighting performance evaluation
- 3. C-NCAP 照明安全近光眩光评测
  3. C-NCAP lighting safety low beam glare evaluation
- 4. C-NCAP 照明安全远光照明范围评测
  4. C-NCAP lighting safety high beam lighting range evaluation
- 5. 计算得分
  5. Calculate the score