# OA-Lab车用灯具快速配光测试系统
OA Lab Fast Light Distribution Test System for Vehicle Lamps

● 远方OA-Lab车用灯具快速配光测试系统利用成像（彩色）亮度计结合专用车灯配光分析软件，只需数秒即可得到全屏扫描数据、光强分布或等照度分布图。具有测试速度快，测试精度高，动态范围宽等优点，适用于实验室中对于车灯配光快速测量。可结合远方GO-HD系统使用，既节约暗室空间又可进一步提高测试精度。

The remote OA Lab vehicle lamp fast light distribution test system uses imaging (color) luminance meter and special light distribution analysis software to obtain full screen scanning data, light intensity distribution or isoilluminance distribution in seconds. It has the advantages of fast test speed, high test accuracy, wide dynamic range, etc. It is suitable for rapid measurement of light distribution of lamps in the laboratory. It can be used in combination with the remote GO-HD system, which can save the darkroom space and further improve the test accuracy.
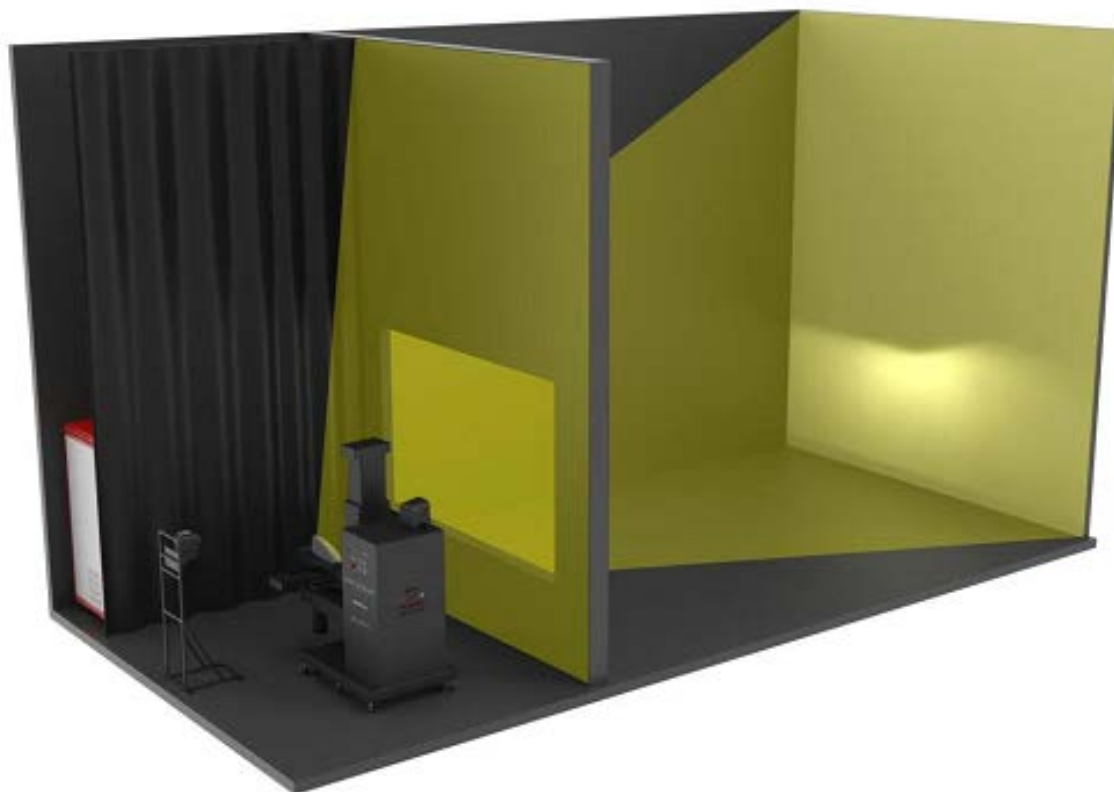
特点与优势 Characteristics and advantage

● **主要特点：**
Main features:

● （1）测量速度快，只需数秒即可完成配光性能测试；
(1) The measurement speed is fast, and it only takes a few seconds to complete the light distribution performance test;

● （2）占用暗室空间小，节省空间；
(2) Small dark room space, saving space;

● （3）采用捌百万像素高精度成像（彩色）亮度计，具有宽线性动态范围以及良好的V(λ)匹配，光度测量精度高；
(3) Eight megapixel high-precision imaging (color) luminance meter with wide linear dynamic range and good V（λ）Matching, high photometric measurement accuracy;

● （4）采用远方专有技术，照准屏具有良好的近郎伯漫反射体特性，长期稳定性和均匀性好；
(4) Using remote proprietary technology, the aiming screen has good near Lambertian reflector characteristics, and has good long-term stability and uniformity;

● （5）可配合GO-HD5系统，提高测量准确度（也可在原25米测试系统上升级改造）；
(5) It can cooperate with GO-HD5 system to improve measurement accuracy (it can also be upgraded on the original 25m test system);

● （6）可同时快速测量色度参数和明暗截止线的颜色过渡（选项）。
(6) The chromaticity parameter and the color transition of the cut-off can be quickly measured at the same time (option).

技术参数 Specifications

● **主要功能：**
Main functions:

● （1）测量照准屏亮度和亮度分布；
(1) Measure the brightness and brightness distribution of the aiming screen;

● （2）测量空间光强分布、等照度测试分析、关键点照度数据；
(2) Measuring spatial light intensity distribution, equal illumination test analysis, key point illumination data;

● （3）光强分布图、等照度分布图
(3) Light intensity distribution map, isoilluminance distribution map

● （4）自动照准功能；
(4) Automatic aiming function;

● （5）前照灯色度分析（选项）；
(5) Headlamp chromaticity analysis (option);

● **主要技术指标：**
Main technical indicators:

● （1）灯具转动范围：±180°（左右）、±120°（俯仰）；
(1) Rotation range of lamp: ± 180 ° (left and right), ± 120 ° (pitch);

● （2）角度精度：0.01°；
(2) Angle accuracy: 0.01 °;

● （3）漫射屏尺寸：6m（长）*3m（宽）（可根据实验室大小定制）；
(3) Diffuse screen size: 6m (length) * 3m (width) (can be customized according to the size of the laboratory);

● （4）测量距离：10m（可根据实验室大小定制）；
(4) Measuring distance: 10m (customized according to the size of the laboratory);

● （5）亮度测量范围：（0.001~20000000）cd/m2（可定制）；
(5) Luminance measurement range: (0.001~20000000) cd/m2 (customizable);

● （6）亮度测量重复性（标准A光源）：0.5%；
(6) Luminance measurement repeatability (standard A light source): 0.5%;

技术参数 Specifications

● **软件界面：**
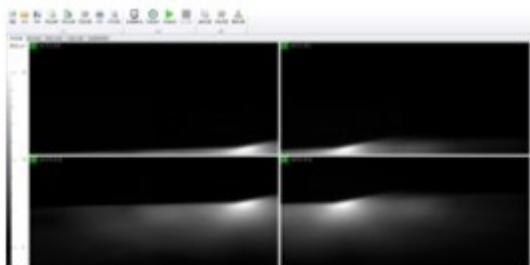
实时光型

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