# VLTS-200 整车灯光测试系统
# VLTS-200 Vehicle Lighting Test System

- VLTS-200整车灯光测试系统基于C-NCAP评价规则中的前照灯整车性能测试要求设计，采用高精度成像亮度系统并结合专业分析软件，可对整车形态下的前照灯光型、明暗截止线、路面照度性能进行测试分析，有助于客户更全面的了解整车灯光性能。

The VLTS-200 whole vehicle light test system is designed based on the requirements of the headlamp whole vehicle performance test in the C-NCAP evaluation rules. With high-precision imaging brightness system and professional analysis software, it can test and analyze the headlamp type, light and dark cut-off, and road illumination performance under the whole vehicle configuration, which is helpful for customers to have a more comprehensive understanding of the vehicle light performance.
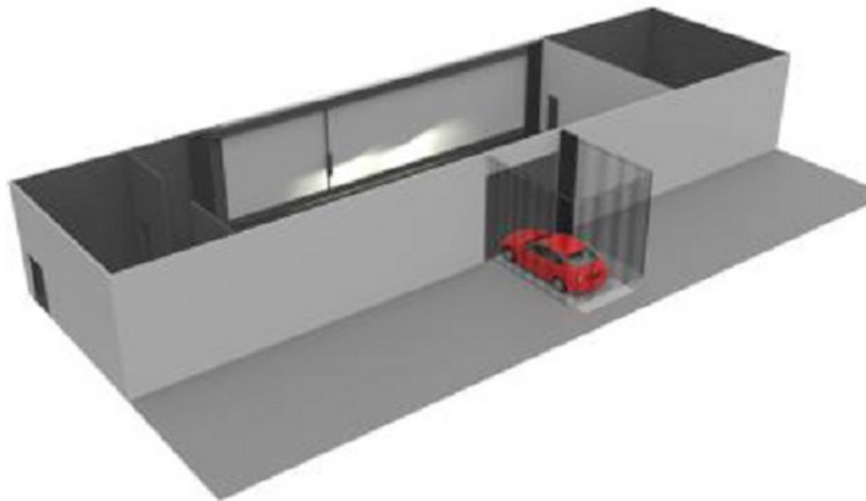
特点与优势 Characteristics and advantage

- （1）精准的车身定位 Accurate body positioning
  系统设置停车位，整体限定车辆的停车方位，并通过在车辆正上方安装工业相机实时监测及算法校正的方式，对车辆的偏移角度进行精准修正，保证测量结果的准确性。
  (1) Accurate body positioning
  The system sets the parking space, defines the parking position of the vehicle as a whole, and accurately corrects the offset angle of the vehicle by installing an industrial camera directly above the vehicle for real-time monitoring and algorithm correction, so as to ensure the accuracy of the measurement results.

- （2）先进的图像拼接算法 Advanced image stitching algorithm
  系统采用3个成像亮度计的组合方案，通过精确的图像拼接算法，有效实现水平方向更大角度的测量。
  (2) Advanced image stitching algorithm
  The system adopts the combination scheme of three imaging luminance meters, and effectively realizes the measurement of larger angle in the horizontal direction through accurate image mosaic algorithm.

- （3） 占用暗室空间小 Occupies small darkroom space
  通过交替遮蔽前照灯，分别测量得到左右灯的光强分布，专用分析软件可得出整车的路面照度分布情况，节省暗室空间。
  (3) Occupies small darkroom space
  The light intensity distribution of the left and right lamps can be measured by alternately shielding the headlamps. The special analysis software can obtain the road illumination distribution of the whole vehicle, saving the dark room space.
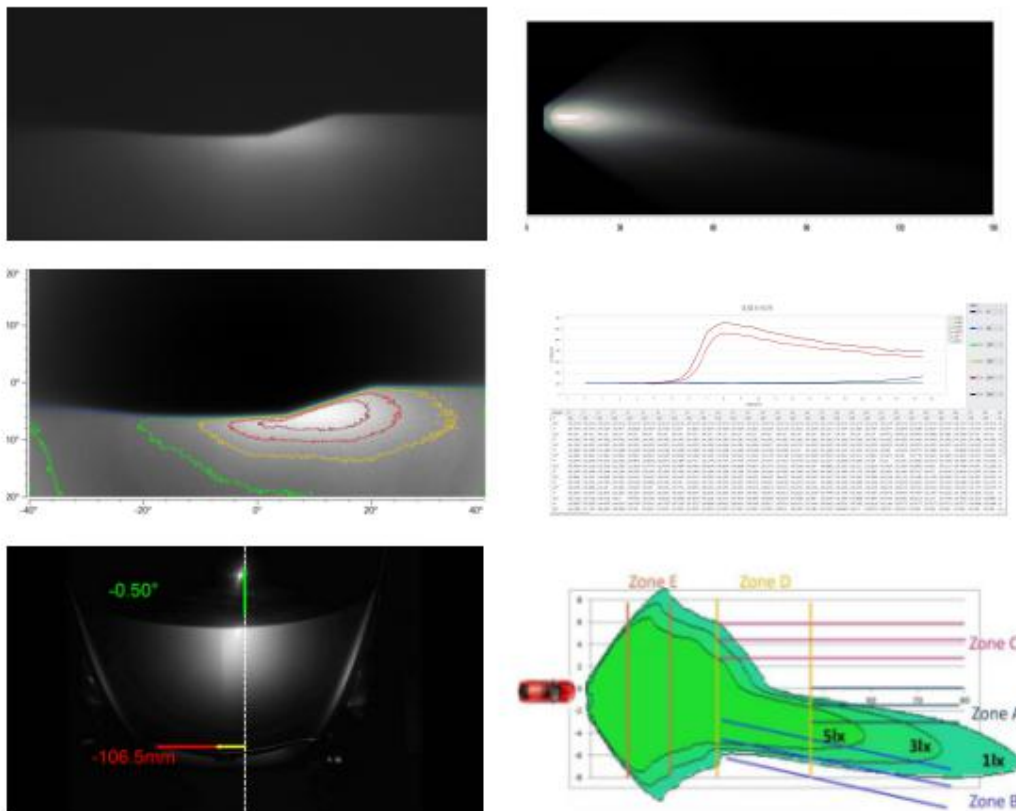
技术参数 Specifications

- 1、采用高分辨率、高精度成像亮度计，具有宽线性动态范围以及良好的V(λ)匹配，可同时实现亮区和暗区的准确测量；
1. High resolution and high precision imaging luminance meter with wide linear dynamic range and good V（λ）Matching can realize the accurate measurement of bright and dark areas at the same time;

- 2、配合高精度照度探头，可保证暗区照度值的精准测量；
2. With high-precision illuminance probe, it can ensure accurate measurement of dark area illuminance value;

- 3、可进行前照灯的光型及配光性能测量，用于更精准的前照灯设计；
3. It can measure the light type and light distribution performance of the headlamp for more accurate headlamp design;

- 4、采用远方专有技术的照准屏，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. The aiming screen with remote proprietary technology has good near Lambertian reflector characteristics, good long-term stability and uniformity;

- 5、根据客户需求，可实现道路照明的分区评价；
5. According to customer needs, it can realize the zoning evaluation of road lighting;

- 6、系统功能拓展性强，可进行单个前照灯的性能评价。
6. The system has strong expandability and can be used to evaluate the performance of a single headlamp.