



GO-HD5 GONIOPHOTOMETER FOR AUTOMOTIVE AND SIGNAL LIGHTS

1. Basic working principles:

This system is suitable for the light distribution and illuminance test automotive, signal light, retroreflector and reflect materials etc photometric performance testing, it is the world leading CIE A- α measurement solution. During the measurement, photometer head is keep stable while the tested sample rotate around the vertical axis(A plane axis) and horizontal axis (α Axis),then get the whole space luminous intensity.

Main standards :

- GB14887-2003
- GB 4599-2007
- GB 21259-2007
- GB4660-2007
- GB11554-2008
- GB17509-2008
- GB15235-2007

- GB5920-2008
- QC/T 260-1998
- GB18409-2001
- GB18099-2000
- GB 5948-2008
- GB 5948-2008
- SAE standards
- ECE standards
- Code of Federal Regulations FMVSS108

- (1) Rotation range of luminaires: $\pm 180^\circ$ (horizontal), $\pm 120^\circ$ (vertical);
- (2) Accuracy of angle : 0.01° (Best);
- (3) Pre-amplified and constant-temperated photometer head, CLASS L ($f1' < 1.5\%$) or CLASS A ($f1' < 3.0\%$);
- (4) Photometry range : 0.0001 lx \sim 200000 lx;
- (5) Photometric accuracy: Standard Level;
- (6) Maximum load: 35kg;
- (7) The precision laser alignment system;
- (8) The testing process is controlled by software, with high intelligence and simple operation;
- (9) The software provides multiple test functions including illuminance curve, road surface illuminance curve, and equal luminous intensity curve etc., which makes it easy to test and analyze the lighting performance of the luminaire during the design process;
- (10) The function of gradient measurement is used to analyze the position of the cut-off line of automobile headlights;
- (11) Automatic alignment function, especially for the initial operator to use and test data without being affected by man's attention;
- (12) The test data can be exported from EXCEL format;
- (13) Open software designed to meet different software, and easy to be upgraded;
- (14) The design of open software is easy to upgrade and replace;
- (15) Fast, medium and slow test speed can be selected

GO-HD5 is CIE A- α type goniophotometer. It is a supermatic and accurate luminous intensity and illuminance test system for automotive lamps, traffic signal lamps, bicycle lamps, vessel lamps and aircraft lamps, all kinds of retroreflectors and retroreflective material, etc. It fully meets the requirement of relevant standards including GB, ECE, FMVSS108, JIS etc.