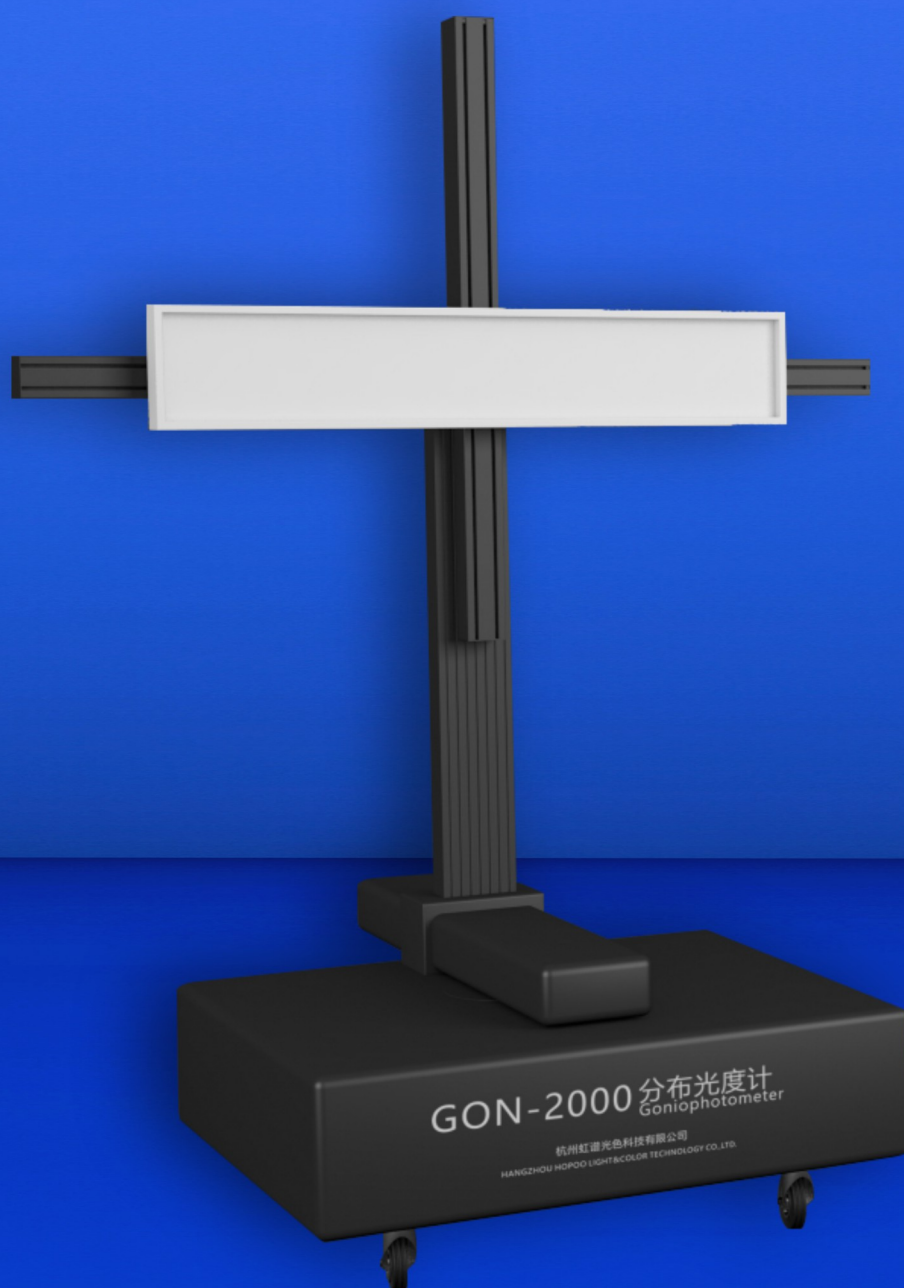


# GON2000 GONIOPHOTOMETER

Can be customized



## Product description

This system uses the method of fixing the detector and rotating the lamp under test to measure the light intensity distribution of the light source or lamp under test in all directions in the space. The main shaft and the lamp shaft adopt the precious metal optical fiber point brush structure. The conductive slip ring can continuously run 360 degrees without backlash for measurement. There is no need to rotate back and forth to prevent winding, and never winding. According to the requirements of the measuring lamp, the system can be configured as a double-column B- $\beta$  test scheme or single-column C-y test scheme. Used in LED lamps (semiconductor lighting), road lamps, projection lamps, indoor lamps, outdoor lamps, etc. and LED, energy-saving lamps, fluorescent lamps, incandescent lamps. High-precision testing of the spatial luminosity distribution (ie, light distribution curve) of various light sources such as HID lamps; test results can be exported to IESNA (95, 2002) file format (\*.ies), CIE file format (\*.cie), European The Eulumdat (\*.ldt) file format and other formats meet the requirements of international standards and can be directly used as the input data of international general lighting design software.

## Reference standard

LM-79-2008	Electrical and photometric measurement methods for solid-state lighting products
GB/T9468-2008	General requirements for light distribution measurement
LB/T 001-2008	Measurement method of integral LED street lamp
GB/T 24824-2009	Measurement method for LED module
GB/T7002-2008	Projection lighting fixture photometric test
CIE 69	Methods of Characterizing Illuminance Meters and Luminance Meters
CIE 70-1987	The measurement of absolute luminous intensity distributions
CIE 121-1996	The photometry of goniophotometer of luminaries
CIE 84	Measurement of luminous flux
IESNA LM-75	Goniophotometer Types and Photometric Coordinates

## Technical characteristics

The main shaft and the lamp shaft adopt the conductive slip ring with precious metal fiber point brush structure, which can run 360 degrees continuously without backlash, and there is no need to rotate back and forth to prevent winding, never winding.

Use a well-known brand of high-speed, high-torque, low-noise, low-vibration three-phase hybrid stepping motor.

With laser sight, the center of the lamp under test coincides with the center of rotation of the rotating table.

Vertical axis rotation range:	-180°~180° or 0°~360° rotation
Horizontal axis rotation range:	-180°~180° or 0°~360° rotation
Angle accuracy:	0.1 degree, resolution: 0.01 degree
Maximum lamp size:	1.2×0.6 m
Maximum weight of the lamp:	30kg (including fixture)
The lamp power supply measurement adopts a 4-wire system:	Two 10A slip rings are used for power supply, and two 2A slip rings are used to measure voltage.
Length of turntable control line and lamp power supply line:	6 m, can be lengthened for special requirements

## Photometric parameters

Lighting measurement range: automatic measuring range from 0.001 lx to 200 klx

High-precision constant temperature probe (constant temperature point  $35 \pm 1$  degree, constant temperature precision  $\pm 0.1$  degree)

Highly stable probe holder with light-shielding grating, height adjustable, up/down and left/right tilt angles adjustable

V(  $\lambda$  ) Correction accuracy: CIE standard level (fl' <0.03)

Maximum test distance: 2 meters to 30 meters

Length of luminosity probe connector: 20 m (can be customized)

## Sketch of darkroom



### Rich software functions

Control the turntable rotation, collect the light intensity distribution data of the lamps, and calculate the luminosity data and the conversion of the coordinate system.

Including spatial light intensity distribution, spatial color distribution, optical intensity distribution curve on any cross section (can be displayed by right angle coordinate system or polar coordinate system), spatial light intensity curve, plane light intensity curve, and other brightness distribution curve, brightness limit curve, ring band light flux, glare level, lamp efficiency, effective luminous angle, upper light pass ratio, lower light pass ratio, lamp total light flux, effective light flux, relevant color temperature, color coordinate x,y, color difference duvo

export the lamp documents conforming to international standards, you can directly import the lighting design software, the format description is as follows:

- \*. HPG Hopoocolor HPG Series Distribution photometry Test Data File Format
- \*.IES IESNA North American Standard format, including editions 95 and 2002. Version
- \*. LDT EULUMDAT German Standard (European) Case Test Document
- \*. CIE Standard Format of CIE International Commission on illumination

According to the type of the measured lamp, such as street lamps and outdoor lamps, indoor lamps ..etc, output the corresponding printing report, can be directly saved as PDF file, easy to communicate and archive, etc.

### HANGZHOU HOPOO LIGHT&COLOR TECHNOLOGY CO.,LTD

10 / F, building 1, No. 9, Xiyuan 2nd Road, Sandun Town, Xihu District,

Hangzhou , China

Tel: 0571-85281329 0571-85458590

Email: sales2@hopoocolor.com

sales2@hopoocolor.com  
www.hopoocolor.com