

# RP-R18 Line retroreflector



## Introduction

RP-R18 marking retroreflection measuring instrument is a portable field measuring instrument with open optical path, which is used to measure the brightness coefficient of marking retroreflection. Unit:  $\text{mcd}\cdot\text{m}^{-2}\cdot\text{lx}^{-1}$ . The main characteristics of the research are: to simulate the luminance of a motor vehicle driving on the highway at night, when the headlamp illuminates the mark (made of reverse reflector material) on the road, and is observed by the driver in the cab after its reflection. The measured parameter is the luminance coefficient of reverse reflector at night, that is, the value of RL. This instrument can measure the brightness coefficient of retroreflection of the marking line under dry R<sub>L</sub>, wet R<sub>(L\_wet)</sub> and continuous rain. The instrument conforms to the following standards: GB/T 26377-2010 "Reverse reflection Measuring Instrument", GB/T16311-2009 "Road Traffic marking quality requirements and testing methods", JJG(traffic) 099-2004 "Reverse reflection Measuring Instrument Verification Regulation", support JTG F80-1-2017 "Highway Engineering Quality Inspection and Assessment Standard", DB36/T978-2017 "Rainy night road traffic reflective marking quality requirements and detection methods", DB51/T2429-2017 "Rainy night Road traffic reflective marking quality requirements and detection methods" and other standard requirements.

## Character

- Open optical path, measurement without external light interference
  - Support dry, wet and continuous rainfall conditions measurement;
  - Fast measurement (1.5 seconds to measure the inverse reflection brightness coefficient value);
  - Simple calibration procedure; Ceramic calibration block;
  - 5 inch daylight screen, in the light can see the operation interface;
  - Support the storage of more than 100,000 pieces of detection data information, including measurement data, operator, road information and detection time, etc.
  - USB data interface, test report in the form of database export to the computer;
  - Real-time voice broadcast of measurement data;
  - Bluetooth printer to print out test results on site;
- Real-time sampling, storage site temperature and humidity real-time display;

- High-end instrument rod box, easy to carry

#### Technical Specification

Test item	Luminance coefficient of reverse reflection	mcd.m-2.lx-1
Measure range	0-4000	
Observe Angle	1.05°	
Angle of incidence	88.76°, Complementary Angle 1.24	
Color temperature of light source	2856±50K Open optical path	
Repeatable measurement error	≤2%	
Battery duration	>30h	
Data storage space	More than 10 test data	
Voltage capacitance	12V/5.2Ah	
Charge power	DC 15V	
Service ambient temperature	-15°C~+60°C	
Ambient humidity	<98%	
Size	360mm x 135mm x 125mm	
Net weight	3.5kg	
Voice broadcasting	Have	
Bluetooth printing	Have	
Pack box	High-end shockproof rod case	

#### Configuration list

Host	1PCS
Calibrate Block	1PCS (WHITE)
Charger	1PCS
USB data line	1PCS
Wireless bluetooth printer	1PCS
Print paper	2PCS
Operate manual	1PCS
Certificate of qualification	1PCS
Calibrate certificate	1PCS
Warranty card	1PCS
Pack list	1PCS

