

Transmission Meter

Model: LS161H

User Manual V1.10

Please read this manual carefully before using and reserve it for reference.

I. Product introduction

The instrument is a small and portable transmission meter, a real pocket product. It is suitable for simultaneously testing the IR and UV rejection rate, visible light transmittance, total solar energy rejection (TSER) and solar heat gain coefficient (SHGC) of various film materials (such as solar films, explosion-proof films, etc.). The instrument has a variety of display parameter combinations, and users can choose according to their needs.

Standards for the product

GB/T 31849-2015 Film mounted motor vehicle glass

GA/T 744-2013 Automotive solar control window films

JJF 1225-2009 Calibration Specification for Transmittance Meter of Automobile

JJG 178-2007 Ultraviolet, Visible, Near-Infrared Spectrophotometers

II. Parameters

Parameter Name	Parameter Value
UV Peak Wavelength	365nm
IR Wavelength	Peak wavelength 940nm, 1400nm and Full IR
VL Wavelength	380nm-760nm, CIE function of photopic vision
Resolution	0.1%
Accuracy	±2% (colorless uniform light-transmitting material), factory standard sample detection sensitivity ±1%
Solar Heat Gain Coefficient	SHGC (0.000-1.000)
Total Solar Energy Rejection	TSER (0.0%-100%)
Dimension	101mm *52mm *25.5mm (L*W*H)
Thickness of Testing Sample	< 0.8mm
Display	240*240 dot matrix TFT color screen
Weigh	about 70g (exclude batteries)
Power Supply	4*AAA alkaline battery
Supply Voltage	DC 5V
Operating Current	38mA
Operating Power Consumption	190mW

III. Operation

1. Power on/off



2. Measurement


When there is no test object, short press the button to switch the display interface. When there is a test object, short press the button to lock the data; long press the button to shut down.



3. Setup

Short press the button to select the option and long press the button to confirm the current option.

4. Low battery reminder

When battery power is low, the battery icon at the bottom right will flash and display “”, indicating the need for replacement.

IV. Notes

1. The instrument will self-test and self-calibrate when powered on. The test slot must be empty at this time, otherwise the self-calibration cannot be completed.
2. Please turn off the power when the instrument is not in use.
3. Avoid contact with corrosive agents and prevent from high temperature and high humidity environment.
4. Extended use may cause a decrease in LED efficiency (the temperature of the LED light source increases and the efficiency decreases), resulting in VLT, UVR, and IRR data not showing "100%, 0.0%, 0.0%" or VLT, UVT, and IRT data not showing "100%, 100%, 100%" when no test object is present. In such cases, turn off the instrument, restart it for self-test and calibration. This does not affect measurement accuracy or normal operation.

V. Standard packing list

No.	Description	Quantity	Unit
1	Transmission Meter	1	pcs
2	User Manual	1	pcs
3	Storage Bag	1	pcs

VI. Service

1. The meter has one-year warranty. If the meter works abnormally, please send the whole meter to the company for maintenance.
2. Provide users with spare parts and lifelong maintenance services.
3. Provide the users with the meter inspection service for free.
4. Free technical support for long term.

Manufacturer: Shenzhen Linshang Technology Co.,Ltd.



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