

# LS160/LS160A Transmission Meter

User Manual V6.04

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

Note: IR peak wavelength of LS160 is 940nm, and the IR peak wavelength of LS160A is 400nm.

## I. Product introduction

Transmission Meter is a small size, portable product for transmission value measurement. It is able to simultaneously measure and display UV, IR rejection value and visible light transmission value.

### 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

1. Dimension: 93mm \*52mm \*25mm (L\*W\*H)
2. Weigh: 65g (exclude batteries)
3. Thickness of testing sample: < 0.8mm
4. Resolution: 0.1%
5. Accuracy:  $\pm 2\%$
6. VL Peak wavelength: 530nm
7. UV Peak wavelength: 365nm
8. IR Peak wavelength: 940nm/1400nm
9. Power Supply: 4\*AAA alkaline battery
10. Supply Voltage: DC5V
11. Operating Current: 10mA
12. Operating Power Consumption: 50mW

## III. Operation

### 1. Power on

When the meter is off, press the "ON/Hold" button to turn the power on.

### 2. Power off

Press the "ON/Hold" button and hold for longer than 3 seconds, and the meter will be turned off.

### **3. Auto off**

If no button is pressed in 3 minutes the meter will turn off automatically.

### **4. Manual hold**

If the "ON/Hold" button is briefly pressed during measurement mode, the transmission value will be held on the LCD, and the "HOLD" symbol will appear. Pressing the "ON/Hold" button again will release the Hold mode. When the backlight is off, pressing the "ON/Hold" button will turn it on.

### **5. Measurement**

When UVR (Ultraviolet Rejection) and IRR (Infrared Rejection) display 0% and VLT (Visible light transmission) display 100%, insert the testing sample in the "OPENING", VLT, UVR and IRR values will display simultaneously.

## **IV. Features**

1. UV rejection meter, IR rejection meter, light transmittance meter. Three functions in ONE device.
2. Small size, portable product for transmission value measurement.
3. Simple operation, putting the testing sample in the "OPENING", VLT, UVR and IRR values of the sample will simultaneously display.
4. For window film, solar film and other transparency material testing.

## **V. Notes**

1. When the battery symbol is empty and flashes, please replace the battery.
2. Ensure the "OPENING" is empty before turning on the meter. If not, the meter may display an "Error" or testing interface. To resolve this, empty the "OPENING," turn the meter off, and then turn it on again.
3.  $\pm 2\%$  Accuracy is for Colorless and transparent material, for colourful or optical coating products etc, the Accuracy will be low

## VI. Standard packing list

No.	Description	Quantity	Unit
1	Transmission Meter	1	pcs
2	User Manual	1	pcs
3	Cloth packing bag	1	pcs
4	Screwdriver	1	Pcs
5	Batteries (Not Included)	4	Pcs