

# LS160/LS160A Transmission Meter

User Manual V6.05

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

Note: IR peak wavelength of LS160 is 940nm, and IR peak wavelength of LS160A is 1400nm.

## 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 power on.

### 2. Power off

Press “ON/Hold” button and hold for longer than 3 seconds, the meter will be powered off.

### 3. Auto off

No button is pressed in 3 minutes, and then the meter will power off automatically.

### 4. Manual hold

If “ON/Hold” button is short pressed during measure status, the transmission value will hold on the LCD, “HOLD” symbol is displayed on the LCD. Press the “ON/Hold” button again will release the “Hold” mode. When backlight is off, press the “ON/Hold” button turn on the backlight.

### 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 value 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 transparenance material testing.

## V. Notes

1. When battery symbol is empty and flash, please replace the battery.
2. Keep the “OPENING” is empty before turning on the meter. Otherwise the meter will display “Error” interface or testing interface, empty the “OPENING”, turn off and turn on again.
3.  $\pm 2\%$  Accuracy is for Colorless and transparent material, for colorful or optical coating product etc, it will be low accuracy.

## VI. Standard packing list

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



3	Certificate / warranty card	1	pcs
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## VII. 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.

Website: [www.linshangtech.com](http://www.linshangtech.com)

Service hotline: 086-755-86263411

Email: [sales21@linshangtech.com](mailto:sales21@linshangtech.com)