



Linshang LS108 Spectrum Transmission Meter User Manual

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LS108 Spectrum Transmission Meter User Manual V9.0

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

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Product Introduction

Spectrum transmission meter uses a purple light source, a blue light source and a visible light source to illuminate the transparent material under test. The sensor detects the incident light intensity of the three light sources and the light intensity after passing through the transparent material under test. The ratio of the transmitted light intensity to the incident light intensity is the transmission, expressed as a percentage.


Professionally used for optical transmission testing of spectacle lenses, anti-blue light materials, coating materials, organic materials, etc.



Parameters

1. Purple light peak wavelength: 395nm
2. Blue light peak wavelength: 430nm
3. Visible light: 380nm-760nm full wavelength, in line with the CIE photopic luminosity function standard
4. Minimum test sample size: 1mm
5. Resolution: 0.1%
6. Measurement accuracy: $\pm 2\%$ (colorless and uniform transparent material 0-90% transmission)
7. Power input: DC5V/1A
8. Dimensions: 170mm × 180mm × 144mm (L*W*H)
9. Weight: about 1570g


Operation


1. Power on self-test

Power on: Plug in the power supply and ensure there is no test sample under testing. Short press the “” button to turn on the meter. The boot interface displays the version number and serial number of the meter and then enters into the measurement interface.

Power off: Short press the “” button to turn off the meter in the measurement interface; Long press the “” button for 3s to turn off the meter in the setting interface.

2. Setup

Long press the “” button for 3s in the off state or short press the “Operation” button to set the parameters in the measurement interface.

1) In the Setup interface, the “” button is used to confirm the setting; the “Operation” button is used for selection.

2) Short press the “Operation” button to select the setting item:


Setup	
Language:	English
Display item:	VLT+BL/UV Rejection+UV400
Exit	VL/BL/PL Transmission+UV400 VL/BL Transmission+UV400 VL/BL/PL Transmission


A. Select “Language”, short press “” button to enter the setting item you selected

Short press the “Operation” button to select Chinese/English:

Select “Chinese”: the measurement interface is switched to Chinese;

Select “English”: the measurement interface is switched to English;

Short press the “” button to confirm the setting and return to select the setting item.

B. Select “Display Item”, short press “” button to enter the selected setting item: Short press the “Operation” button to select “VLT+BL/UV Rejection+UV400”, “VL/BL/PL Transmission+UV400”, “VL/BL

Transmission+UV400”, “VL/BL/PL Transmission”. (UV400 means that the lenses will block 100% UV waves shorter than or equal to 400nm)



VLT+ Blue light/UV rejection +UV400

VLT /blue light/purple light transmission+UV400



Visible light /blue light transmission+UV400


Visible light /blue light /purple light transmission


Select “VLT+BL/UV Rejection+UV400”, the measurement interface displays: visible light transmission, blue light rejection, ultraviolet rays rejection, UV400. (Default)

Select “VL/BL/PL Transmission+UV400”, the measurement interface displays: visible light transmission, blue light transmission, purple light transmission, UV400.

Select “VL/BL Transmission+UV400”, the measurement interface displays: visible light transmission, blue light transmission, UV400.

Select “VL/BL/PL Transmission”, the measurement interface displays: visible light transmission, blue light transmission, purple light transmission.

Short press the “” button to confirm the setting and return to select the setting item.

C. Select “Exit”, short press the  button to exit the setting mode and enters into the measurement mode.

3. Measurement and operation

After powering on, the meter enters into the measurement interface, the visible light transmission is displayed as 100%, blue light rejection and ultraviolet rays rejection is 0%, UV400 is 0nm. Place the test sample on the test hole, the LCD screen displays the visible light transmission, blue light and ultraviolet rays rejection of the tested sample, UV400;

As shown in the figure below: the visible light transmission of the tested sample is 96.6%, the blue light rejection is 21.1%, the ultraviolet rays rejection is 83.7% and the UV400 value is 393nm.



4. Abnormal voltage prompt

Voltage > 5.7V or < 4.7V, the meter enters into the abnormal voltage interface. The meter automatically turns off after 2s; when the interface prompt appears, please follow the prompts to replace the appropriate power supply.

Features

1. Brand new wavelength synthesis technology, measure transmission data of 3 wavelength simultaneously.
2. Obtain the visible light, blue light, violet light transmission and UV400 data at the same time by aligning the test hole just once, which greatly improves the test efficiency.
3. Suitable for transmission and rejection rate testing of spectacle lenses, anti-blue light materials, glass, mobile phone lenses, organic materials, etc.
4. The meter has real-time dynamic self-calibration function, which automatically calibrates to 100% transmission after powering on.
5. The minimum test sample size is 1mm.
6. Large LCD display, there are 4 display interfaces optional in Chinese and English.

Notes

1. The meter is self-testing and self-calibrating when it is turned on, please don't place any test sample in the test position, otherwise the self-calibration cannot be completed.
2. Avoid contact with corrosive materials and keep away from high temperature and high humidity environment.
3. When there is no test sample, the visible light transmission rate occasionally can't return to "100%" or the rejection rate can't return to 0%. Just shut down and restart the meter immediately for normal use it does not affect the measurement accuracy.
4. When the meter is not in use, please shut down.
5. When the interface displays abnormal voltage, please replace the power supply.

Standard Packing List

No.	Description	Quantity	Unit
1	Spectrum Transmission Meter	1	set
2	User manual	1	pcs
3	Certificate / warranty card	1	pcs
4	DC5V adapter	1	pcs
5	USB cable	1	pcs

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

Service hotline: 086-755-86263411

Email: sales21@linshangtech.com

Documents / Resources

	<p>Linshang LS108 Spectrum Transmission Meter [pdf] User Manual LS108 Spectrum Transmission Meter, LS108, LS108 Transmission Meter, Spectrum Transmissi on Meter, Transmission Meter, Spectrum Meter, Meter</p>
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References

-  [Transmission Meter | UV Light Meter | Coating Thickness Gauge - Linshang](#)