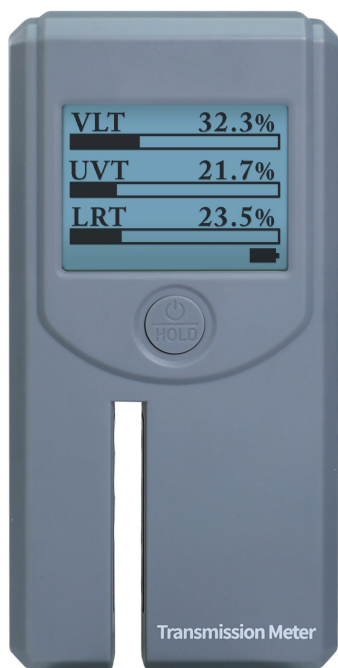


TRANSMISSION METER

USER MANUAL



SCAN THE QR CODE
to download the
USER MANUAL
in different languages
and SOFTWARE

TUTORIAL VIDEO ON HOW TO USE

Need more help? **CONTACT US.**

www.cd50.net/404

INTRODUCTION

Thank you for choosing the Transmission Meter. This portable light transmission measuring instrument is designed to measure the visible light transmittance, IR rejection (transmission) value and UV rejection (transmission) value of solar film, stick-film glass and other materials.

FEATURES

1. 6mm test slot for direct window glass testing.
2. LCD dot matrix display with backlight.
3. Auto-rotate display interface.
4. Real-time dynamic self-calibration.
5. Three display interface options: UVR/IRR/VLT, UVT/IRT/VLT, VLT.
6. Ultra-low power consumption, 4 AAA alkaline batteries for over 100 hours of continuous measurement.
7. UV rejection, IR rejection, and light transmittance meter in one device.
8. Simple operation: insert test sample, get instant data.
9. Applicable to solar film, stick-film glass, and other materials for performance testing, production, quality inspection, etc.

SET INCLUDES

- 1 x Transmission Meter
- 1 x User Manual
- 4 x AAA Battery
- 1 x Carrying Bag

OPERATION

POWER ON/OFF

Power-On Self-Test:

Briefly press (⏻) button to turn on the meter. Ensure there is no test sample in the slot before powering on to complete the self-calibration. After 3 seconds, the meter will display the serial number, version number, and enter the measurement interface.

NOTE: When the meter fails to complete power on self-calibration, the interface will display "E30". Possible causes includes:

- Strong ambient light,
- A test sample placed in the test slot (remove the test sample and turn on the meter again),
- Dust in the test hole (blow off the dust with a dust blower),
- Hardware failures (requires returning to the factory for maintenance).

Manual Shutdown:

Press and hold (⏻) button for 3 seconds to turn off the meter.

Auto Shutdown:

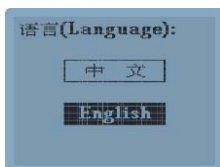
The meter will automatically power off after 3 minutes of inactivity.

PARAMETER SETTING

In the off state, press and hold (⏻) button for 3 seconds to enter the parameter setting mode.

Language:

Press (⏻) button briefly to select Chinese or English,
Press and hold it for 2 seconds to confirm the option and proceed to the next setting item.



Display Item:

Press (⏻) button briefly to select the desired item
Press and hold (⏻) button for 2 seconds to confirm. The meter will now enter the measurement interface. It provides three options:

① UVR/IRR/VLT (default option):

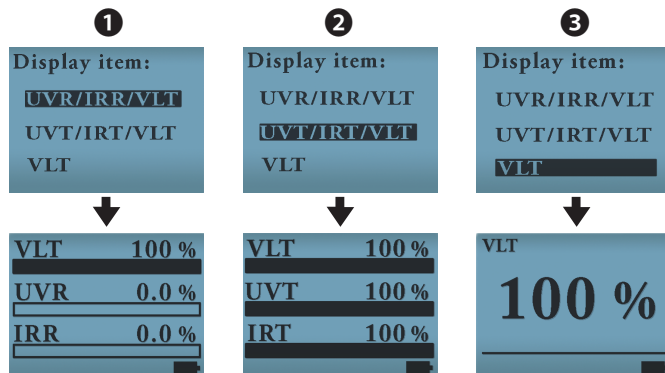
UV rejection, IR rejection and visible light transmittance are displayed.

② UVT/IRT/VLT:

UV transmission, IR transmission and visible light transmittance are displayed.

③ VLT:

Only visible light transmittance is displayed.



Measurement:

During measurement:

Press (⏻) button to hold the measured data.

Short press (⏻) button again to exit.

While in the "HOLD" state, if the backlight is off:

Press (⏻) button will turn on the backlight.

If the backlight is already on, it will exit the "HOLD" state and start a new measurement.

Auto-rotate display interface:


The meter display interface will rotate adaptively for convenient reading of measurement data. The interface is shown as below:



Backlight auto-on:

During measurement, if the backlight is off, it will automatically turn on when the test sample is placed in the slot and will turn off after 30 seconds of inactivity.

Low battery indicator :

When the battery power is low, the empty battery symbol will flash with an indicator  on the screen's bottom right corner, indicating the need for battery replacement.

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SPECIFICATIONS

UV Peak wavelength:	365nm
IR Peak wavelength:	940nm (LS163)
Visible light wavelength:	380-760nm, conform to the CIE photopic vision function standard
Accuracy:	±2% for colorless and transparent materials
Resolution:	0.1%
Test Slot:	6mm *58mm (W*D)
Meter Size:	146mm *73mm *24mm (L*W*H)
Display:	128*128 Dot matrix LCD
Weight:	187g (including batteries)
Power supply:	4*AAA alkaline battery

PRECAUTION

1. Turn off the power when the meter is not in use.
2. Avoid contact with corrosive materials and keep the meter away from high temperature and high humidity environments.
3. environments.
4. After prolonged usage, the LED light source's luminous efficiency may decrease due to an increase in temperature. Consequently, the data of UVR, IRR and VLT may not be displayed as "0.0, 0.0, 100" when there is no test sample. Similarly, VLT, UVT and IRT may not be displayed as "100, 100, 100".
In such cases, simply turn off the meter and restart it. The meter will perform a self-test and self-calibration, ensuring that the measurement accuracy and normal functionality of the meter remain unaffected.

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SERVICE

1. This meter is covered by a one-year warranty from the date of purchase. In case of abnormal functioning, please send the entire meter to the company for maintenance.
2. Spare parts and lifelong maintenance services are provided to users.
3. Meter inspection service is offered to users at no cost.
4. Free technical support is available to users on a long-term basis. If you have any questions or require assistance with the meter's operation, please feel free to contact us.

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