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1.Measurement principle

The measuring principle of the light transmittance meter is to irradiate the measured transparent substance with a light source, and the sensor respectively detects the incident light intensity of the light source and the light intensity

after passing through the measured substance, and the ratio of the transmitted light intensity to the incident light intensity is light transmission. Rate, expressed as a percentage。

2. Technical parameter

Model	Parameters	WT11	WT13
Measurement range	0~100%	●	●
Size	135.5mmx62.5mmx22.5mm	●	●
Wight	93g (Battery excluded)	●	●
Resolution	0.1%	●	●
Accuracy	$\pm 2\%$	●	●
Powder	4x1.5V AAA	●	●

supply	(UM-4)		
Working flow	<30mA	●	●
Sample thickness	<9mm	●	●
Operating Conditions	Temp: 0~50℃ , Humidity : <90%	●	●
Test model	Visible light	●	●
	UV	○	●
	IR	○	●
	Visible light, UV, IR	○	●
Spectrum range	Visible light: 380~760nm	●	●
	IR: 940nm	○	●

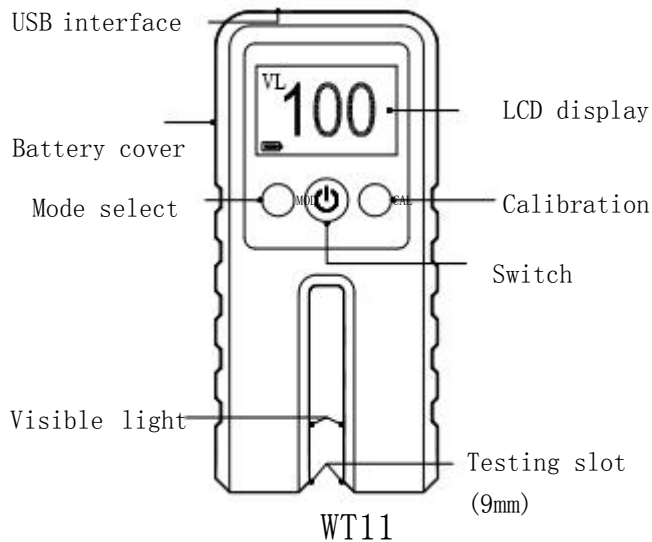
	UV: 365nm	○	●
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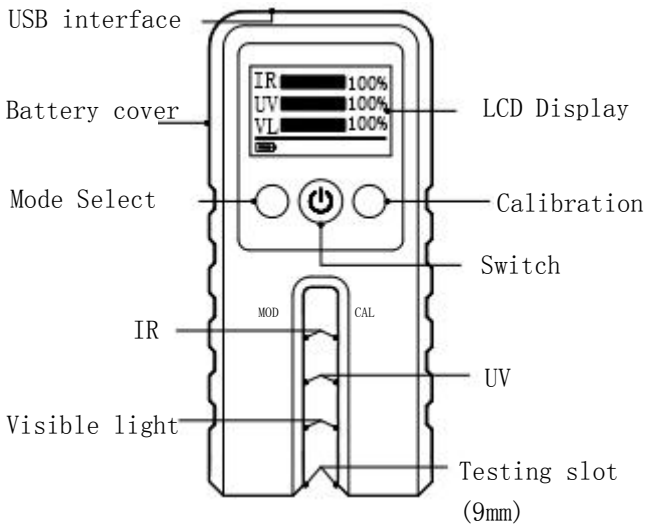
PS : Different models have different product parameters, ●Satisfied , ○ Unsatisfied

3.Accessory list

Name	Quantity
Device	1pc
AAA dry battery	4x1.5V
User manual	1pc
Test Sample	1pc
Package	1pc
Certificate/ Warranty card	1set

4.Product diagram





5.Operation

5.1 On/Off Button

Press and hold  for about 1 second to start the power-on operation. When the power is turned on, the buzzer will beep once. When the instrument is in the measurement state and the screen backlight is on, press  for 2 seconds to perform the shutdown operation. The buzzer will beep once and the LCD will display “Shutdown”. The instrument will automatically shut down if there is no button operation within 10 minutes. When the screen is on, press the button  shortly enables the data to enter the

“HOLD” state. The word “HOLD” is displayed at the bottom right of the LCD. Press the button  again once to exit the “HOLD” state, enter the measurement state, and the word “HOLD” disappears.

5.2 CAL Button

The data can be manually calibrated by briefly pressing the “CAL” key while the measurement is in progress and the screen backlight is lit. After pressing the “CAL” button, “CAL...” is displayed at the bottom right of the LCD. When the calibration is completed, “CAL Finish” is displayed at the bottom right of the LCD and disappears after two seconds to indicate that the calibration is complete. The channel’s transmittance data is

displayed as “100%” (single channel model display “100”).

5.3 MOD Button

In the measurement state and the screen backlight is lit, short press the “MOD” button to measure the infrared light transmittance >visible light transmittance measurement>UV light transmittance measurement>three-channel transmittance measurement. The cycle is switchable between and the instrument will automatically complete the calibration when the channel is switched. There is no need to manually perform the calibration operation. This function button is only available for the three-channel model, and the

single-channel model is invalid.

Note: Pressing any button while the instrument is off can only illuminate the screen. To perform the button operation, the screen should be on.

6.Instruction

6.1.Self-Calibration

Do not pinch any object to be measured between the light source and the sensor. Press and hold the button  to switch on, the instrument will complete the self-test and start in about 3 seconds. All channels on the LCD display 100% (the single channel model displays “100”). The over rate cannot be displayed as 100%. Press the “CAL” button to manually

calibrate or shut down and restart the instrument.

6.2 Test

When the LCD of the instrument is 100%, the object to be tested is placed flat on the end of the sensor. The instrument will immediately display the transmittance data of the measured object. Do not block the light near the measuring slot with your hand or other objects during the measurement for measurement accuracy.

Note: In the three-channel transmittance measurement mode, the three channels are detected in turn, and it is normal to display the transmittance data delay after the object is placed. Since this

instrument uses the photoelectric principle, do not operate under strong light.

7.Features

1. This instrument is suitable for the measurement of light transmittance of all transparent and translucent parallel plane samples (such as automotive glass, architectural glass, plastic sheet, and mobile phone glass).
2. The three-channel model combines three kinds of light transmittance : visible light, infrared light and ultraviolet light.
3. The instrument has automatic calibration and manual calibration

function. It automatically calibrates to 100% transmittance after power on. When performing manual calibration operation, the LCD displays prompt information in time, and the operation is simple and clear.

8.Attentions

1. Avoid contact with corrosive materials and keep away from high temperature and high humidity.
2. When there is no test object occasionally, the display data is not 100%. Perform manual calibration operation or restart the instrument.
3. Upon long time no use, cut off external power and remove the battery to avoid damage to the instrument resulting from battery fluid overflow.

4. When the “ Low bat” is displayed on the lower left of the LCD and it flashes, it indicates that the battery is low. Please replace the battery in time.