

# WINDOW TINT METER WTM-1000

**LANDTEK** 兰泰仪器

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## 1. FEATURES

This Window Tint Meter is a hand held device that measures the amount of light that passes through a window. It measures the total amount of Visual Light Transmission (henceforth referred to as VLT) through a window and any coatings (tint film) on that window. The device was designed to measure the total VLT of a window after it has been treated with aftermarket window film. The device slides over a partially rolled down window, does its calculations, and in seconds displays the readings on a LCD . Because it has its own internal light source, the meter will work day or night.

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## 2. SPECIFICATIONS

- Display: 10mm LCD
- Measurement Range: 0 to 100% Light Transmission
- Resolution: 0.1
- Accuracy:  $\leq 2\%$
- Wavelength: 550 Nanometers
- Interface: USB
- Sample Thickness: Less than 10 mm/0.4inch
- Sample Size: 50x50mm Minimum
- Operating conditions: 0~50°C, <90%RH
- Time of Testing: Maximum of 4 Seconds
- Effects From Stray Light: Not Effected by Stray Light
- Lamp Life: 10 Years
- Power Source: 4 x 1.5v AAA Batteries
- Weight: 100g (not including batteries)
- Dimensions: 126 x 65 x 27 mm
- Standard Accessories included: Testing block.....1pc.

- Carrying case.....1pc.
- Operation manual.....1 pc.
- Optional Accessory: USB cable and software Bluetooth adapter and software

## 3. FRONT PANEL DESCRIPTION



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- 3-1 Display
- 3-2 Calibration Key
- 3-3 Power Key
- 3-4 Measuring Slot
- 3-5 Key for Date-transmission
- 3-6 Battery Cover

#### 4. HOW TO PERFORM A TEST

- \*Power the tint meter on by pressing the power key
- \*Roll the window down half-way, and position the meter's entrance slot over the glass.
- \*Press the Tint meter down over the glass. When the Meter is positioned over the glass the meter will display the light transmission of that window on an easy to read liquid crystal display. Slide the meter up vertically to remove the device and turn the unit off.

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figure 1: Correct method of placing Model 1000 on glass.



figure 2: Model 1000 correctly seated on glass to be measured.

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#### 5. CALIBRATION

- \*It is easy to test the accuracy by yourself. There is a CAL button to be used to calibrate the tint meter.
- \*100% light transmission  
Do not place any reference plate into the meter's entrance slot. The reading on the display should be around 100%, if not, please press the CAL key and release it. The meter is now calibrated to 100% light transmission.

**Note: readings between 99%-101% are acceptable.**

- \* 0% light transmission  
Sliding the cardboard into the slot like a reference sample should achieve a reading of 0%. if not, please press the CAL key and release it. The meter is now calibrated to 0 light transmission.

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#### 6. BATTERY REPLACEMENT

- 6.1 When it is necessary to replace the battery, the battery symbol "☹" will appear on the Display.
- 6.2 Slide the Battery Cover away from the instrument and remove the batteries.
- 6.3 Insert the latest 4 AA/UM-4, correctly into the case.
- 6.4 If the instrument is not to be used for any extended period, remove batteries.