

ABN: 33 998 859 720

PH: 03 8787-3636

WTX-02 Window Tint Meter

User Manual

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



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I. Product Introduction

This instrument is used to determine the light transmittance of glass, plated film, window film, insulating glass, filmed glass, etc.

It consists of two parts: PART $\, I \,$ (main part): measures and displays results.

PART II (the auxiliary part): produces the light source and laser.

II. Parameters

- 1. Dimensions: 130mm * 70mm * 84mm (L * W * H)
- 2. Weight: 630g
- 3. Resolution: 0.1% for values <10% and 1% for >10%.
- 4. Accuracy: Better than ±2% (Colorless and transparent material)
- 5. Test Sample Size: > 40mm * 40mm
- 6. Visible Light Wavelength: 380nm 760nm, conforming to the CIE photopic luminosity vision
- 7. Power Supply: Built-in lithium rechargeable battery

III. Key Operation

1. Power on/off

A short press of the "Power" button turns the instrument on/off. Both the main and auxiliary parts have power on/off buttons. The meter will shut down automatically if no action takes place within 15 minutes.

2. "HOLD" button on PART I

- A short press of the "HOLD" button will hold the instantaneous data presented on the LCD screen. The up-right corner of the screen will display the icon "HOLD" when this function is in use.
- Another short press of the "HOLD" button will release the hold mode and the "HOLD" icon disappears.
- A Long press of the "HOLD" button for 3 seconds takes the meter to its 3-value display mode. Once in this mode, another long press of the "HOLD" button will take the meter back to the 1-value display.

3. "Laser" key of the auxiliary part

A Short press the "Laser" key powers the laser on and off.



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IV. Instrument operation

1. Self-test

After magnetising the main and auxiliary parts together, press down the "POWER" key to turn them on. Once done so, align the upper and lower laser points with the alignment crosshairs. Wait for the completion of "SELF-TEST" (100% displayed on the Screen) and enter the measurement interface. The following may be reasons for a failed "SELF-TEST":

- Battery power is low, please charge the main and auxiliary part.
- Poor alignment of the main and auxiliary part's crosshairs.
- Starting self-test with material clamped in the testing space.
- Meter is damaged, need to send back to Starr Instruments for repair.

2. Measurement

Clamp the sample with the main and auxiliary parts then align the laser point with the crosshairs. The meter will then display the transmittance value of the samples.



V. Features

- 1. Two-part dual mode of the main and auxiliary part facilitates the transmittance measurement of vehicle front windshield glass and building glass.
- 2. The built-in lithium battery is easily rechargeable and allows for a large battery life.
- 3. The laser function guarantees accurate alignment of the main and auxiliary parts for the measurement process.

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VI. Battery charging

This meter has a built-in lithium rechargeable battery and charger. The following methods can be used to charge the meter:

- 1) Plug the USB cord into the USB port of the computer. Then use dual micro-usb connections to charge both the main and auxiliary parts simultaneously.
- 2) Use the supporting DC 5V Adapter, connect the dual micro-usb plug to charge the main and auxiliary parts simultaneously.

VII. Please Note

- 1. Since the main and auxiliary part has a strong magnetic force, avoid pinched hands or damaging glass samples when in use.
- 2. Charge the meter promptly when the battery indicator flashes.
- 3. The meter may not power on due to possible low power. In such case, please charge it for a while before starting up.
- 4. Please use the dedicated supporting charger.
- 5. In order to ensure accuracy of the measurements, please do not expose the meter to the direct sunlight during the use.
- 6. This product emits a laser beam from the back side of the auxiliary part. Refrain from contact with the eye as injury may occur.

VIII. Standard Packing List

| No. | Description | Quantity | Unit |
|-----|-----------------------------|----------|------|
| 1 | Window Tint Meter | 1 | pcs |
| 2 | User Manual | 1 | pcs |
| 3 | Certificate / warranty card | 1 | pcs |
| 4 | Charger | 1 | pcs |