



OPTICAL TRANSMITTANCE METER YT1010

The YT1010 optical transmittance meter is a high-precision handheld optical transmittance meter designed for quickly and accurately measuring the transmittance of transparent substances. Using three types of light sources, the instrument can measure visible light at 380nm-760nm and infrared peak wavelength at 940nm. It is equipped with a highly sensitive and responsive silicon photodiode as the sensor, and is calibrated with professional algorithms to ensure measurement speed, accuracy, stability, and consistency.

The optical transmittance meter YT1010 is fast and convenient for measurement. It automatically calibrates when turned on, and the test material can be placed in the test slot to obtain test data in 0.5 seconds. Widely used in industries such as glass and film, for measuring parameters such as transmittance and shading coefficient of transparent materials.



PRODUCT FEATURES

1. The resolution is as high as 0.10%, and the measurement accuracy is better than $\pm 1.5\%$ (for colorless and uniformly transparent substances). After testing with a standard sample at the factory, the accuracy can reach $\pm 1\%$, ensuring the reliability of the measurement results;
2. Equipped with three types of light sources: ultraviolet, visible light, and infrared 940nm, to meet diverse measurement needs and ensure accurate analysis of various transparent substances;
3. The measurement time is only about 0.5 seconds, greatly improving work efficiency and suitable for fast-paced production and research and development environments;
4. Adopting a 3.5-inch TFT true color display screen, the large screen operation is intuitive and easy;
5. Covering visible light range of 380nm-760nm and infrared peak wavelength of 940nm, suitable for measuring the optical properties of different materials;
6. The sample thickness can reach 47mm, which can easily meet the measurement needs of transparent materials of various thicknesses. Whether it is thin or thick samples, they can be accurately measured;
7. Automatic calibration upon startup, one click testing, convenient to use;
8. Powered by a 5V DC power supply (Type-C interface), the lighting source has a lifespan of up to 5 years and supports over 3 million measurements, greatly reducing long-term usage costs.

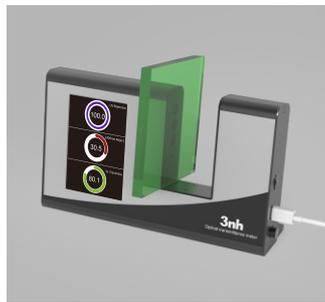


PRODUCT FEATURES

Optical transmittance meters have a wide range of applications. The design of parallel light paths can be used not only in solar films, film coated glass, etc., but also in testing various thick materials such as door and window glass, bulletproof glass, automotive glass, transparent plastics, films, etc. The instrument is suitable for various occasions such as solar film performance exhibition, production, quality inspection, and product testing.



FILM



GLASS



PLASTICS



RESIN

SPECIFICATION PARAMETERS

Model: YT1010

Lighting source: UV, visible light, infrared 940nm

Sensor: Silicon photodiode

Measurement wavelength range: visible light 380nm-760nm;
Infrared peak wavelength 940nm

Resolution: 0.10%

Measurement time: approximately 0.5s

Measurement accuracy: better than $\pm 1.5\%$
(colorless and uniformly transparent substance),
and better than $\pm 1\%$ when tested with a
standard sample at the factory

Sample thickness: less than 47mm

Size: Length X Width X Height=203 * 120 * 29mm

Weight: 515g

Power supply method: 5V DC power supply (Type-C)

Lighting source lifespan: 5 years, over 3 million measurements

Display screen: TFT true color 3.5inch

Interface: USB

Language: Simplified Chinese/English

Operating temperature range: 0~40°C, 0~85% RH (no condensation),
altitude: below 2000m

Storage temperature range: -20~50°C, 0~85% RH (no condensation)

Standard attachments: power adapter, data cable, instruction manual

GUANGDONG THREE NH TECHNOLOGY CO., LTD.



Spectrophotometers



Colorimeters



Haze Meters



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Test Charts



Light Booths

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