



OPTICAL TRANSMITTANCE METER YT1020

The YT1020 optical transmittance meter is a high-precision handheld optical transmittance meter designed for quickly and accurately measuring the transmittance of transparent substances. Using four types of light sources, it can measure visible light at 380nm-760nm, infrared peak wavelengths at 940nm and 1400nm, and the entire infrared band. Equipped with a highly sensitive and responsive silicon photodiode as the sensor, it is calibrated with professional algorithms to ensure the measurement speed, accuracy, stability, and consistency of the instrument.

The optical transmittance meter YT1020 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 four types of light sources: UV, visible light, infrared 940nm, infrared 1400nm, infrared full band, SHGC, and TSER, 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 wavelengths of 380nm-760nm, infrared peak wavelengths of 940nm and 1400nm, and the entire infrared spectrum;
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.

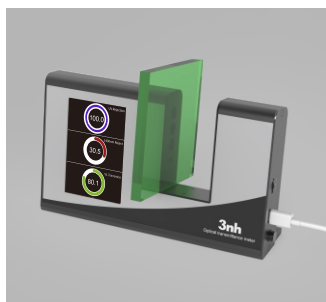


PRODUCT FEATURES

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: YT1020

Lighting source: UV, visible light, infrared 940nm, infrared 1400nm, infrared full band, SHGC and TSER

Measurement wavelength range: Visible light 380nm-760nm; Infrared peak wavelength 940nm, 1400nm, infrared full band

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℃, 0~85% RH (no condensation), altitude: below 2000m

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

Standard attachments: power adapter, data cable, instruction manual

GUANGDONG THREENH TECHNOLOGY CO., LTD.



Spectrophotometers



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Haze Meters



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Test Charts



Light Booths

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