

Full Spectrum Transmittance Meter

GY8000

Features

- **Good portability:** Detachable, the transmittance instrument is small in size, light in weight, easy to carry, and can be used alone;
- **Multi-wavelength measurement:** It can measure the transmittance of 350nm-950nm;
- **Simple operation:** 6-inch high-definition LCD touch screen, self-developed operating system, user-friendly interface, simple and smooth operation;
- **Long battery life:** 3200mA high-capacity battery, can be used continuously for 20 hours on a single charge;
- **Strong storage capacity:** Standard 16G large-capacity data storage card, data storage capacity of more than 100,000 records;
- **Powerful functions:** It integrates spectrum, transmittance, illuminance, brightness, chromaticity and other measurement functions.

Application

- Measure material transmittance
- Optical component performance test
- Thin film and coating performance test
- Surface morphology analysis
- Environmental Science
- Reflection matching
- Material science
- Surface engineering

Description

The GY8000 is Optosky's latest design for sample testing, integrating the measurement of parameters such as saturation and absorbance.

Building on years of technical expertise, Optosky has developed and produced the GY8000 transmittance detector, specifically designed for scenarios involving transmittance parameter detection in samples. The instrument is equipped with a 6-inch high-definition screen, making operation simple and convenient.

The GY8000 is ideal for rapid transmittance measurement in industries such as optics, solar energy, thin films, environmental protection, and building materials. All measurements are effortlessly at your fingertips!



1. Principle

The principle of the spectral transmittance tester is based on the reflection and transmission of light. When light hits the surface of an object, part of the light will be absorbed and the other part will be transmitted. The tester calculates the transmittance of the surface of the object by measuring the intensity and spectral distribution of the light reflected or transmitted from the surface of the object. The instrument uses the Android system and the interface is simple and clear.

2. Parameter

Measurement Parameters	Spectral transmittance, absorbance, brightness, redness, greenness, saturation, illumination, etc.
Operating system	Android system
Wavelength Range	350nm~950nm
Resolution	0.10%
Accuracy	Better than $\pm 2\%$ (colorless uniform light-transmitting material), factory standard sample detection better than $\pm 1\%$
Touch screen	6 inches, 1920× 1080, multi-touch
Dimensions	212*132*137mm, screen host thickness 47mm
Weight	About 600g
Interface	Type-c
Working temperature	-20 – 50 °C

3. Measurement Spectrum

