Transmittance Measurement System

BIX-8812 Series

Spectral Transmittance refers to the ratio of outgoing light intensity to incident light intensity in an optical system, reflecting the overall light intensity loss of the system. Measuring the spectral transmittance of transparent and semi-transparent materials (including liquids, solids, etc.) holds significant practical and application value. For example:

- Evaluating the quality of optical filters based on their spectral transmittance;
- Using light transmittance as a key criterion for glass quality inspection;
- Transparency testing of liquids in fields such as healthcare, industrial production, and chemical synthesis.

Compared to traditional experimental methods for transmittance measurement, spectroscopic systems based on spectrometers offer simpler, faster, and more precise testing with reliable results, freeing researchers from tedious manual operations and minimizing human error. Additionally, the modular design of the system allows for flexible reconfiguration to meet evolving experimental needs, while continuous upgrades in experimental methods and applications enable current and future diverse research possibilities.

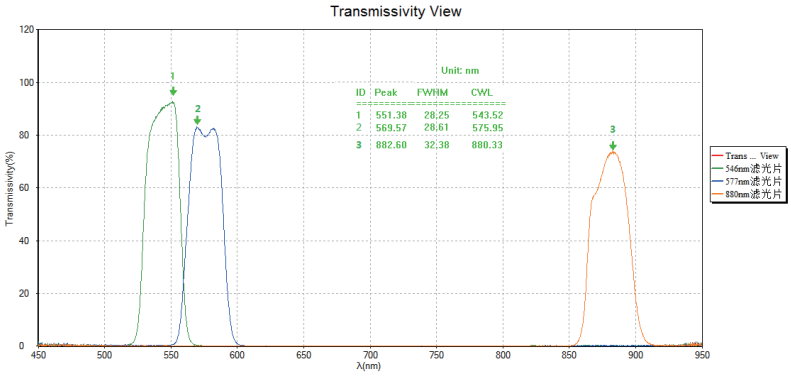
Features

- Easy sample mounting with professional fixture accessories
- User-friendly operation with high repeatability and rapid detection
- Full-spectrum transmittance data & curves for intuitive data visualization
- Highly compatible modular design for application expansion

Applications

- Attenuation performance testing of optical filters
- Light transmittance measurement for glass and other materials
- Wavelength-specific absorption analysis of materials

Typical Spectrum



Specifications

Model	BIX-8812-0X1X (Model Note: 0X- Spectrometer option, 1X- Sample fixture option)
Spectrometer	01: 200nm~1100nm (BIM-6002S-22-S03L02F06G13)
	02: 200nm~900nm (BIM-6002A-01-S03L02F06G01)
	03: 400nm~1100nm (BIM-6002A-13-S03L01F05G02)
Sample Fixture	11: 1 to 1 fiber (SIM-6102-1010-S/S-P) *2ea Transmission Holder (BIM-6302) *1ea
	12: 1 to 1 fiber (SIM-6102-1010-S/S-P) *1ea 1 to 1 fiber (SIM-6102-1010-S/T-P) *1ea Double-point Reflection Stage (BIM-6303) *1ea Radiation Integrating Sphere (SIM-3001-02501) *1ea
Light Source	Deuterium Tungsten Light Source (BIM-6203) *1ea