

Liquid Transmission & Solids Diffuse Reflection

IR1600-TS

Features

- Spectral Range: 12500 - 4000 cm^{-1} (800 - 2500nm)
- Spectral Resolution $\leq 2 \text{ cm}^{-1}$
- Liquid transmission with temperature controller
- Solid diffuse reflection uses integrating sphere can automated set gold plated mode
- Flexible dual-channel measurements of liquid and solid samples
- Qualitative and quantitative analysis for laboratory research

Application

Composition or content analysis of polyether polyols, polyurethane industry, acetic acid synthesis process, petrochemical industry, edible oil, feed industry, dairy products, textiles, etc.

Description

IR1600-TS is a Dual-Channel measurements of liquid Transmission and solid diffuse reflection, positioned for laboratory applications. It can be used for both liquid transmission measurement and solid diffuse reflection measurement. It enables one host to measure liquid and solid samples at the same time without changing accessories. It is very suitable for sample analysis. Measure customers with different needs. IR1600-TS is an important supplement of products in laboratory application scenarios. Optosky hopes that this near-infrared product can meet the needs of users with multi-form sample testing and achieve improvements and optimizations in functionality and cost.



Parameter

tems	Parameters
Principle	Fourier transform near infrared
Interferometer	Highly stable cube corner mirror interferometer, permanent collimation
Light source	High-performance near-infrared light source, service life >3 years
Laser	solid-state laser, service life 10 years
Beam splitter	CaF 2 beam splitter for near infrared
Detector	High sensitivity InGaAs detector
Spectral range	12500 - 4000cm ⁻¹ (800 - 2500nm)
Resolution	<2cm ⁻¹
Integrated dual channels	liquid transmission channel, solid diffuse reflection channel



liquid transmission channel



solid diffuse channel