

Infrared Spectroscopy Oil Analyzer

This infrared spectroscopy oil analyzer employs Windows XP and 7 operating systems. It uses pyroelectric infrared detectors to accurately gather signals and automatically adjusts wavelength location for precise measurement.



Overview

Precision Infrared Oil Analysis

This Infrared Spectroscopy Oil Analyzer is designed for accurate water quality testing, specifically for determining petroleum and animal/plant oil content. It adheres to the HJ637-2012 national standard, utilizing advanced infrared photometric methods to ensure precise measurements. The system features automated wavelength adjustment and high-performance pyroelectric detectors, making it an essential tool for industrial quality control and environmental monitoring.

Performance Metrics

Key Performance Indicators

0.04 mg/L

Detection Limit

10000 mg/L

Max Concentration

0.999 R

Correlation Coefficient

Technical Capabilities

Measurement Specifications

Parameter	Value/Range
Wavelength Range	3400 - 2400 cm-1
Absorbency Range	0.0000 - 2.0000 AU
Measurement Range	0.05 - 100 mg/L
Repeatability (RSD)	d 1%
Measurement Accuracy	< ± 5%

System Features

Software & Interface

- Compatible with Windows XP and Windows 7
- Instrument correction coefficient function
- Industrial serial interface technology
- True three wave number spectral analysis
- Automated methylene 2930cm-1 wavelength adjustment

Physical Specifications

Physical Dimensions	450mm x 350mm x 130mm
Net Weight	13 kg

Compliance & Standards

Compliance

HJ637-2012 Standard, CE, ISO