

# 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 <sup>-1</sup>
Absorbency Range	0.0000 - 2.0000 AU
Measurement Range	0.05 - 100 mg/L
Repeatability (RSD)	± 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<sup>-1</sup> wavelength adjustment

## Physical Specifications

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

## Compliance & Standards

Compliance

HJ637-2012 Standard, CE, ISO