



KLABS KFTIR-4100 FT-IR Spectrophotometer



Product Description

KLABS KFTIR-4100 FT-IR Spectrophotometer is a high-performance Fourier Transform Infrared Spectrometer designed for qualitative and quantitative analysis of solids, liquids and gases. The instrument features a sealed optical system, humidity monitoring display, intelligent software and high signal-to-noise performance, making it suitable for research, pharmaceutical, chemical and quality control laboratories.

Features

- Sealed Optical System
- Humidity Digital Display Window
- High Stability Optical Components
- Powerful Intelligent Software
- High Signal-to-Noise Ratio
- USB Connectivity
- Long Life IR Light Source
- High Resolution Detection System
- Compact and User-Friendly Design
- Accurate and Reliable Performance

Application/Uses

- Sealed Optical System
- Humidity Digital Display Window
- High Stability Optical Components
- Powerful Intelligent Software
- High Signal-to-Noise Ratio
- USB Connectivity
- Long Life IR Light Source
- High Resolution Detection System



Technical Specifications

Parameter	Details
Product Name	FT-IR Spectrophotometer
Model Number	KFTIR-4100
Wave Number Range	7800 – 375 cm^{-1}
Interferometer	Michelson Interferometer with 30° Incidence Angle
100% Line Tilt Range	Better than 0.5% (2200–1900 cm^{-1})
Resolution	1 cm^{-1}
Wave Number Repeatability	1 cm^{-1}
Wave Number Accuracy	0.01 cm^{-1}
Signal to Noise Ratio	30000:1 (DLATGS, Resolution @ 4 cm^{-1})
Detector	High Resolution DLATGS Detector with Moisture Proof Coating
Beam Splitter	KBr Coated with Ge (Made in USA)
Light Source	Long Life Air-Cooled IR Light Source (Made in USA)
Electronic System	24 Bit A/D Converter at 500 MHz
Interface	USB 2.0
Power Supply	110–220V AC, 50–60 Hz
Dimensions	450 × 350 × 235 mm
Weight	14 kg

Standard Accessories

- Thin Standard Film
- KBr Die Set
- 15 Ton Hydraulic Press
- Pellet Holder
- KBr Powder
- Liquid Cell Holder
- Software CD
- USB Cable
- Tool Kit
- Instruction Manual
- Dust Cover

Optional Accessories

- ATR Attachment
- Intelligent Moisture Proof Cabinet