

# FTIR-750

## FT-IR Spectrometer



- *Easy to Operate*
- *Small footprint*
- *Powerful Software*
- *Easy Sample Preparation*
- *USB Interfacing*
- *Cost Effective*

FTIR-750 is a single-beam FT-IR spectrometer. This instrument is operated by a PC with user friendly software and a comprehensive user manual. Fast scan speeds, high accuracy and ease with operation are standard features. It is an indispensable analysis tool for various application fields such as chemistry, biology, pharmaceutical, materials, mineral, food and beverage, wine industry and quality control.

### Features

- Very compact and small footprint of slightly larger than a A4 paper.
- High stable optical system: The optical bench adopts an integrated design of aluminium structure and main components are positioned at one time, which greatly improves the stability of the instrument and no need for later adjustment.
- The gold plated retroreflector optics provides easy operation without requiring complicated electronics and additional moving parts.
- The spectrometer includes a container of desiccant that protects the beamsplitter and other optical components from moisture damage.
- Plugged-in modules include Transmission Module and ATR Module for analysing various kinds of sample.
- 24-bit A/D conversion technology, combined with high performance pyroelectric detector, ensures the reliability of data, real-time acquisition and high-speed transmission.

## Specifications

Wavenumber Range	7800~375 cm <sup>-1</sup>
Resolution	1 cm <sup>-1</sup>
Signal Noise Ratio	30000:1 (resolution@4cm <sup>-1</sup> , sample and background scan for 1 min@2100cm <sup>-1</sup> )
Detector	High performance pyroelectric detector
Beamsplitter	Coated KBr
Light Source	Long life, steady state infrared emitter
Electronic System	24bit A/D converter at 500KHz, USB 2.0
Power	100-240VAC, 50/60Hz
Dimensions	355mm x 265mm x 160mm
Weight	9.6kg

## Available Modules

Plugged-in modules include default Transmission Module and optional ATR Module (ZnSe)

- Transmission Module includes a sample rack to hold a 2"x3" standard slide mount of different transmission sample holders for pallet, liquids and gas cells.
- ATR Module (ZnSe) is an advanced sampling accessory for analysing solids, polymer, rubber, powders, liquids, pastes and gels.

## Packing List

Description	Qty
Main Spectrometer	1
Power Supply	1
USB Cable	1
Power Cord	1
Allen Wrench, 2 mm	1
Allen Wrench, 3 mm	1
Tweezers	1
Dust Cover	1
Replacement Desiccant	1
Polystyrene Film Card	1
USB Drive for Software	1
User's Manual	1



ATR Module (ZnSe)