

# FTIR-7600

## FT-IR Spectrometer



- *Easy to Operate*
- *Powerful Software*
- *Easy Sample Preparation*
- *Simple Maintenance*
- *USB Interfacing*
- *Cost Effective*

FTIR-7600 is a single-beam FT-IR spectrometer. This instrument is operated by a PC with user friendly software and a comprehensive 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.

### High stable optical system

- The design integrates main components to an optical bench machined from a cast aluminium . Highly stable and no need for adjustment, removing troubles of maintenance of optical path
- Precision machinery ensures high repeatability of every scanning. Advanced design concept is adopted in both optical path and every part
- The system's corner cube optics provides easy operation without requiring complicated electronics and additional moving parts. In addition, many components of the spectrometer are user replaceable which saves time over the lifetime of the instrument.
- Internal dynamic collimation system and movable mirror driving system keep the interferometer at optimum situation. Voice-coil driver and precision slide improves the ability of working in severe conditions.
- The spectrometer includes a container of desiccant that protects the beamsplitter and other optical components from moisture damage.

## Specifications

|                    |   |
|--------------------|---|
| Wavenumber Range   | 7800~375 cm <sup>-1</sup>   |
| Resolution         | 1 cm <sup>-1</sup>  |
| Signal Noise Ratio | 20000:1 (resolution@4cm <sup>-1</sup> , sample and background scan for 1 min@2100cm <sup>-1</sup> ) |
| Detector           | High performance DLATGS   |
| Beamsplitter       | Coated KBr  |
| Light Source       | Long life, steady state infrared emitter  |
| Electronic System  | 24bit A/D converter at 500MHz, USB 2.0  |
| Power              | 100-240VAC, 50/60Hz   |
| Dimensions         | 450mm x 350mm x 210mm   |
| Weight             | 14 kg   |

## Optional Accessories

Standard sample compartment allows many types of accessories to extend the functions of the spectrometer.

- Sample cards
- Liquid cells
- Air cells
- ATR
- Cuvettes

## Parts Included

| Description             | Qty |
|-------------------------|-----|
| Main Spectrometer       | 1   |
| Power Supply            | 1   |
| USB Cable               | 1   |
| Power Cord              | 1   |
| Screw Driver, 150 x 6mm | 1   |
| Allen Wrench, 2.5mm     | 1   |
| Replacement Desiccant   | 1   |
| Polystyrene Film        | 1   |
| Software CD             | 1   |
| User's Manual           | 1   |
| Software Manual         | 1   |