

Fourier Transform Infrared Spectrometer

IT2000



JINSP IT2000 adopts Fourier Transform Infrared Spectroscopy (FT-IR), combined with intelligent algorithms and rich spectral libraries, can quickly and accurately detect unknown substances, quantitatively analyze mixture components, and help users solve many analysis problems. The permanently collimated cube-corner technology combined with the high-performance DLaTGS detector ensures high-quality data generation for basic teaching and research applications.

Features

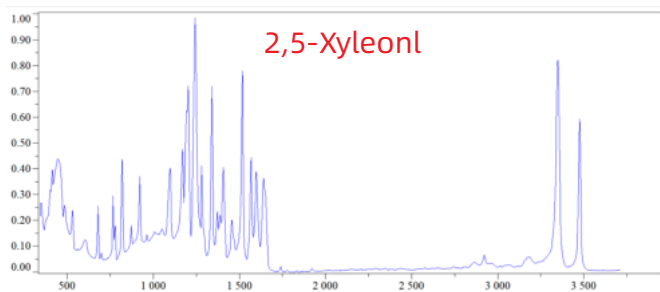
- ◆ The resolution is up to 2cm^{-1} , which more accurately reflects the material information and inspection results.
- ◆ The spectral range is wide, the low wave number reaches 500cm^{-1} , and the material information obtained is more abundant.
- ◆ High intelligence, automatic analysis of mixture samples with complex components.
- ◆ Smooth touch screen operation, intuitive software interface.
- ◆ Simple operation. Solid, powder and liquid can be directly detected without samples.
- ◆ A variety of networking methods can back up the test results in time.



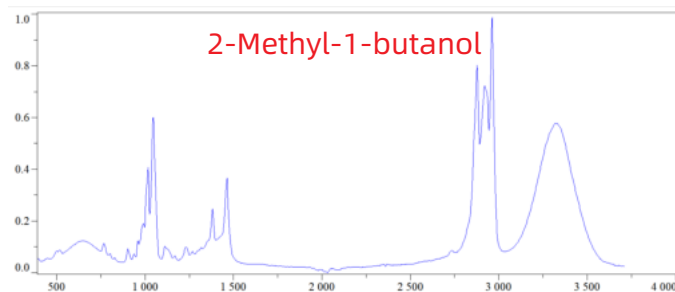
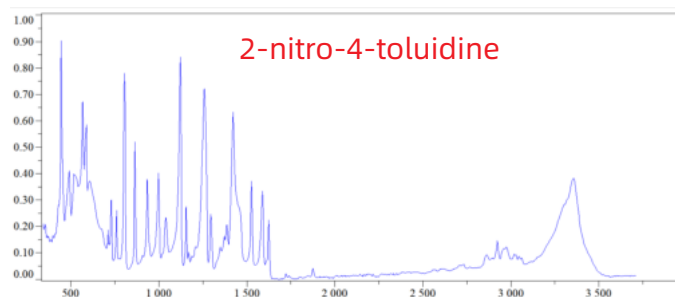
Direct detection without
pretreatment

Application

- ◆ Scientific research application: Qualitative analysis of compounds and molecular structures, such as ethanol, 2,5-xyleneol, 2-nitro-4-toluidine, etc.
- ◆ Pharmaceutical quality control: detection of authenticity and adulteration of Chinese medicinal materials, such as Codonopsis vs Saposhnikoviae, Astragalus vs Radix Sophorae Tonkinensis, Angelica vs lovage, etc.
- ◆ Forensic identification: component detection of drugs and explosives, such as heroin, TNT, etc.
- ◆ Jewelry and jade: internal structure inspection of jewelry and jade to distinguish authenticity, such as wollastonite and Hetian jade.
- ◆ Petrochemical industry: analysis of oil performance, such as analysis of changes in components in lubricating oil.



Infrared spectra of three compounds



Product Parameter

Specification	Parameters
Resolving Power	2cm ⁻¹
Spectral Range	5000~500 cm ⁻¹
Display	10.5-inch capacitive touch screen with clear display results
Connectivity	USB、WIFI、Bluetooth
Detection Method	Diamond ATR



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