

XMIR-990 FT-IR Spectrometer

Labor CE certificated **XMIR-990** Fourier transform infrared spectrometer is an independent research and development of products, it is the most competitive FTIR from China, convenient installation, simple use, convenient maintenance, our FTIR is widely used by materials science, bio-pharmaceutical, petrochemical, food safety and other industry analysis instruments, it's also adopted by university laboratory for scientific research and teaching.



Specifications

Wave number Range	7800 ~ 375 cm ⁻¹
Interferometer	Michelson interferometer with 30 degrees of incidence angle
100%τ line tilt range	Better than 0.5τ % □ 2200~1900cm ⁻¹ □
Resolution	1 cm ⁻¹
Wave Number Repeatability	1 cm ⁻¹
Wave Number Accuracy	0.01 cm ⁻¹
Signal Noise Ratio	30000:1 (DLATGS, resolution@4cm ⁻¹ . sample and background scan for 1 min@2100cm ⁻¹)
Detector	High resolution DLATGS detector with Moisture-proof coating
Beamsplitter	KBr coated with Ge(Made in USA)
Light Source	Long life, air cooled IR light source(Made in USA)
Electronic System	A/D converter of 24 bits at 500MHz, USB 2.0
Power	110-220V AC, 50-60Hz
Dimension	450mm×350mm×235 mm
Weight	14Kg

Unique advantages on moisture-proof

- New design humidity digital display window, you can read humidity and

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temperature value directly, and it has alarm function. while most competitors has to observe the window by the induction card's color and estimate the humidity by yourself.

- Total sealed optical system, the new designed desiccant box can be easily changed in three seconds by hand, while competitor need to unscrew the screws to change the desiccant box.
- We provide moisture proof cabinet with cost price for the customer in high humidity circumstances.

Principle

The FTIR with Michelson interferometer principle, the light emitted by the light source by Michelson interferometer to optical interference, let interference illumination samples, the receiver receives the interference light with sample information, and then by the computer software by transform to obtain the spectra of the samples.

Reliable optical system

- The design integrates main components to an optical bench machined from a cast aluminum, accessories will be mounted by needle positioning, no need to adjust.
- Sealed Michelson interferometer, combined with moisture proof beam splitter and bigger Moisture proof agent box to get 5 times moisture proof ability.
- The design of push pull type sample bin can greatly reduce the interference of water and carbon dioxide in the air on the test results, and it's designed larger to access various accessories.
- Working power less than 30W, green environmental protection.

High stable components

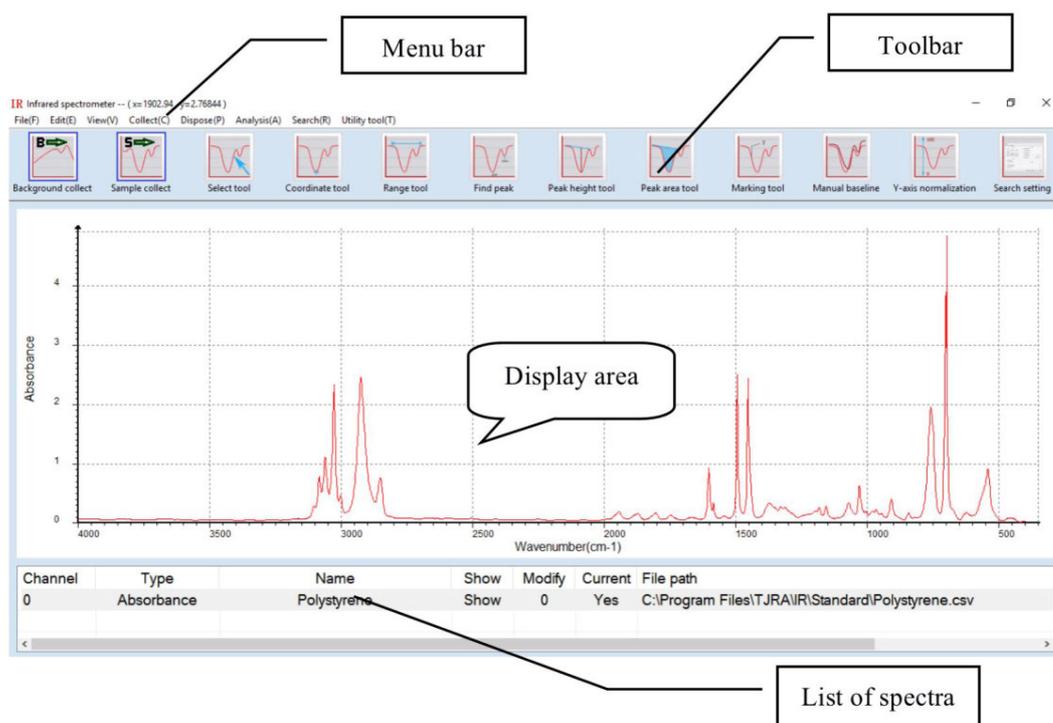
- The sealing interferometer uses USA imported gold cube corner reflector with high reflectivity and angular accuracy.
- With high performance long life ceramic light source imported from USA, the luminous efficiency is as high as 80%.
- VCSEL laser imported from USA with high performance.
- High sensitive DLATGS detector imported from USA.
- It's off axis mirror using SPDT cutting process, with excellent optical efficiency and system consistency.
- The imported special steel rail, heavy load, low friction, ensure data stability and repeatability.

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Powerful intelligent software

- Intelligent human-computer interaction and operation guide design, you can quickly get started and skilled whether you have contacted the FTIR software.
- Unique spectral data acquisition monitoring preview mode, land acquisition process.
- Provide standard library of 70000 spectra for free, include most common Compounds, drugs, oxides.
- Software with GB / T 21186-2007 national standard calibration function and JJF 1319-2011 infrared calibration standard calibration function.

Spectrum sample



XENOMECH ANALYTICAL INSTRUMENTS PVT.LTD.

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Usual Optional Parts:

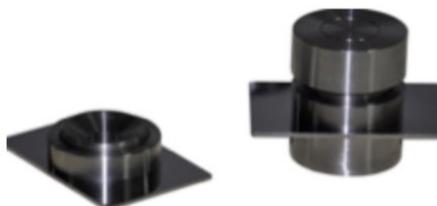
ATR

Znse or Diamond crystal optional
Sampling for solid, polymer, rubber,
powder, liquid, paste and gel.
High pressure lamp with a maximum
pressure of 18kg (40 /bs)
Crystal diameter of 1.8mm with a
pressure of 10,141PSI



Sheet Mold

A mold can fix to the press, then press the
powder into a window in order to test by
FTIR.
Diameter 13mm, thickness 0.1-0.5mm,
without demoulding.



Agate mortar

Grand solid sample and KBR crystal
together into powder, then fill the sample
into sheet mold to press.
Diameter 70mm

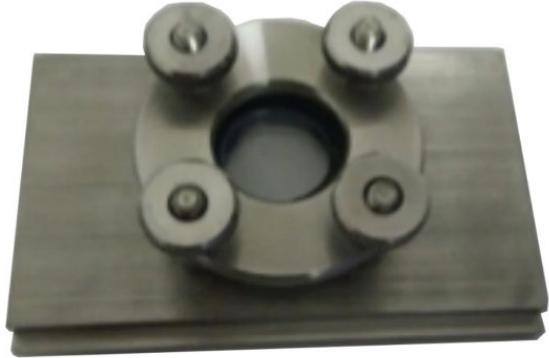


Press

FTIR solid sample treatment, tablet power
sample into window to test.
Pressure Range 0-15T □ 0-30MPa □
Working Area 85× 85× 150mm
Dimension 260× 190× 430mm
Gross weight 29kg



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<p>Liquid Cell For liquid sample Kbr window, deliquescent □ wavelength range 7000-400cm-1 Light transmittance range 2.5μ m~25μ m</p>	
<p>Gas Cell Normally it' s used under one standard atmospheric pressure. The gas cell adopts KBr or CaF2 material as window, with the transmission wavelength of 2.5-25 μ m and optical path of 100 or 50mm. It can also be equipped with CaF2, NaCl, krs-5 and other materials.</p>	
<p>Intelligent electronic moisture-proof cabinet Remove the humidity in the cabinet, can protect FTIR from moisture, <i>highly recommended if additional freight cost accepted.</i> Dimension 650*560*370mm Power 6W/ H(MAX □ 42W) Weight 20kg</p>	

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