

Online FTIR Fourier Transform Infrared Spectrometer Analyzer For Laboratory Analysis

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: IT2000CE
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Customized Packaging
- Delivery Time: 60-80working days
- Payment Terms: TT
- Supply Ability: 20 PCS/60-80 days



Product Specification

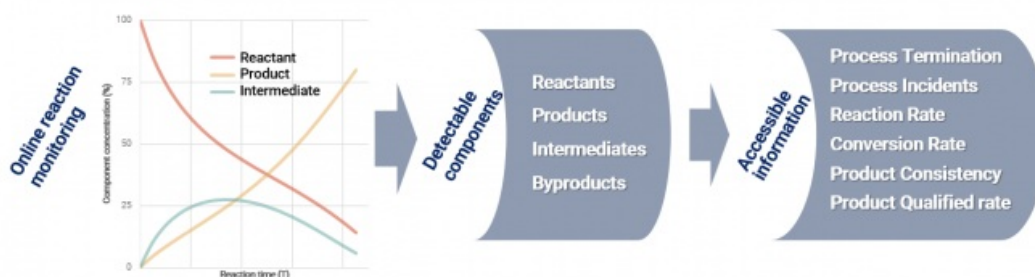
- Spectral Range: 500-5000 Cm-1
- Resolution: 2 Cm-1, 4 Cm-1, Or 8 Cm-1
- Unit Dimensions: 510×300×250mm
- Weight: ≤15 Kg
- Sample Pressure: ≤2 MPa
- Sample Temperature: -50°C ~ +100 °C
- Highlight: **Online Fourier Transform Infrared Spectrometer**
, **Laboratory Fourier Transform Infrared Spectrometer**
, **Laboratory ftir analyser**

Product Description



Product Description:

JINSP provides online monitoring solutions for chemical, pharmaceutical, and material process research and production. It enables in-situ, real-time, continuous, and rapid online monitoring of the content of each component in reactions. JINSP® IT2000CE online FT-IR analyzer is used for in situ monitoring of chemical reactions. IT2000CE can measure the content of reactants, products, intermediates, and impurities in the reaction system continuously and quickly, thus predicting reaction rate, reaction termination, conversion rate, and reaction incidents in real-time. IT2000CE is designed for use in lab research, bench-scale tests, or manufacturing environments.



Features and advantages:

- Versatile Application:
Unaffected by the color of the system, effective detection in various black and dark-colored systems.
Unaffected by solid components, suitable for detecting liquid components in stirring liquid systems.
Applicable to high-temperature, high-pressure, strong acid, alkali, and highly corrosive systems.
- Fast: Obtain data within seconds.
- Intuitive: Real-time display of trends in raw materials and products.
- Powerful function: Simultaneously monitor multiple components and their concentration changes.
- Intelligent: Smart algorithms automatically analyze spectra.

Technical Parameters:

Technical Parameter	Value
Product	Online FT-IR Analyzer
Measurement Type	Fourier Transform Infrared Spectrometer
Dimension	510×300×250mm
Weight	≤15 kg
Resolution	2 cm ⁻¹ , 4 cm ⁻¹ , or 8 cm ⁻¹
Sample suitability	Strong acid/alkali and strong corrosive liquid samples can be analyzed
Display screen	10.5 inch capacitive touchscreen, supporting multi-point touch and multi-angle folding

Spectral range	500 ~ 5000 cm ⁻¹	600 ~ 1800 cm ⁻¹
Sample temperature	-50°C ~ 100 °C	-150°C ~ 230 °C
Sample pressure	≤2 MPa	≤10 MPa
Length of optical fiber	—	1.5 m or 3 m
Connector Interface/ Probe dimensions	Φ6 as standard, 1/8" or 1/4" upon request (steel tubing using tube fittings, or hose using barbed fittings)	L: 300 mm, D: 6.35 mm (Hastelloy alloy) L: 150 mm, D: 6.35 mm (PEEK)
Material	C276 alloy as standard, 316 stainless steel, 304 stainless steel, Monel alloy, or TA2 upon request	Hastelloy alloy as standard, PEEK upon request

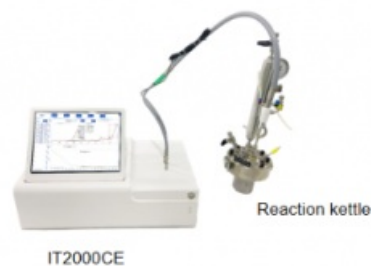
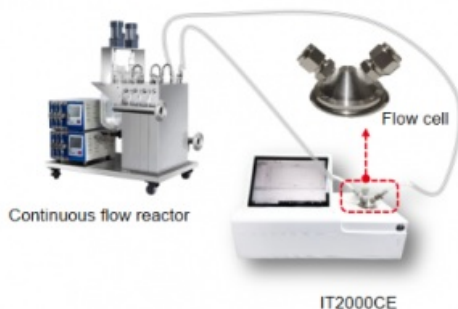
Software functions:

- Real-time analysis while collecting data Multiple absorption peaks of target components can be marked while IR spectra are being collected. The change of the marked components is displayed in real time.
- Flexible platform for online monitoring. The embedded quantification model can be used to monitor component concentration in chemical reactions in real-time.



Usage model:

IT2000CE can connect a bypass to the flow cell in the continuous flow reactor for online monitoring. It is suitable for continuous flow or tubular reactors. It can also use an immersion probe to penetrate deep into the liquid surface of the reaction system to monitor each reaction component, more suitable for kettle batch reactors.



FAQ:

Q1: This is the first time I use it, is it easy to operate?

A1: We will send you a manual and guide video in English, it can teach you how to operate the spectrometer. Also, our technicians will offer professional technical operation meetings.

Q2: Can you offer an operation training?

A2: Your technicians can come to our factory for training. Jinsp engineers can go to your place for local support (installation, training, debugging, maintenance).

Q3: How to receive the best price in the shortest time?

A3: When you send us an inquiry, please kindly offer details with wavelength, detector, effective pixels, focal length, and so on. We will send you a quotation with details soon to your email.

Q4: If the spectrometer has a problem in my place, what could I do?

A4: The spectrometer has a one-year warranty. If it breaks down, our technician will figure out what the problem maybe, according to the client's feedback. We can repair for free within one year warranty.

Q5: What about quality assurance?

A5: We have a quality inspection team. All goods will go through quality inspection before shipment. We can send you pictures for inspection.



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