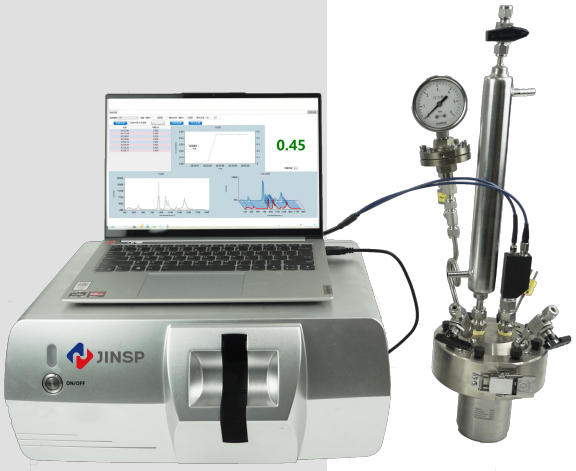
SPECTRAL ANALYSIS
TECHNOLOGY AS THE CORE

JINSP

RS2000
Online Raman Analyzer



JINSP COMPANY LIMITED® RS2000 online Raman analyzer can be used for **in-situ, real-time and continuous online monitoring** of reaction.

RS2000 has been used in the field of **fine chemicals** for reaction mechanism, kinetics, crystal form research, process development and optimization. In particular, it is applicable to dangerous processes such as **nitration, chlorination, fluorination, hydrogenation, diazotization**.

RS2000 has also been used in the field of **biomedicine**, including such biological processes as **aseptic** biological fermentation, peptide drug synthesis, enzyme catalytic reaction, etc. to control process accurately.

JINSP COMPANY LIMITED

JINSP is specialized in spectrum detection technology. With the experts in such fields as optics, machinery, electricity and software, we are engaged in the R&D and production of scientific research and industrial spectrums. With its existing technology, JINSP has won key awards in several international invention exhibitions and more than 200 patents, and passed the European Union CE cert-ification and the EU Civil Aviation ECAC certification. Our thousands of products have been exported to dozens of countries worldwide.

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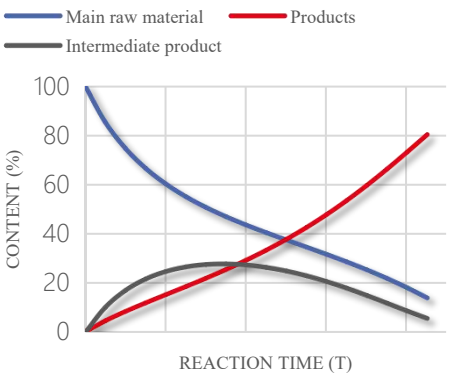
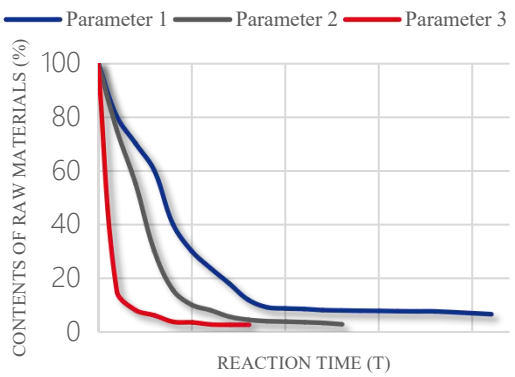
Technical advantages

- **Fast:** Get data in seconds
- **Universal:** Several kinds of immersion probes are available, which are matched with different types of reactors. Flow cell is also designed with interfaces of different specifications to adapt to various kinds of continuous flow reactors
- **Intuitive:** Display the latest dynamics of raw materials and products in real time
- **Highly applicable:** It is applicable to the scenarios with high temperature and high pressure, strong acid and alkali, and strong corrosive system
- **Multi-functional:** It can monitor the changes of multiple components and their contents simultaneously
- **Intelligent:** Intelligent algorithm automatically analyzes spectrograms, and 30,000+ data in the database could assist in identifying system components

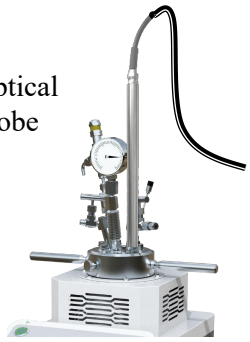
Continuous monitoring of reaction process



Quick screening of process parameters

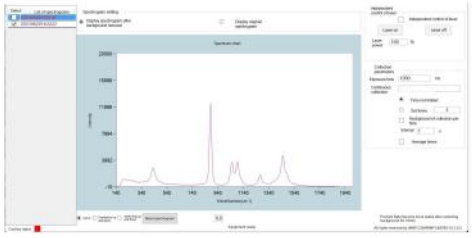


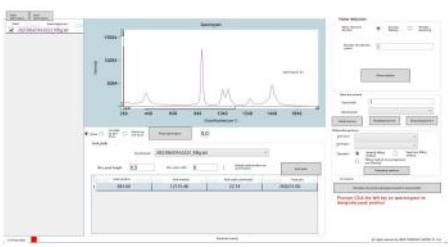
Product parameters

	Immersion probe	Flow cell	Side window
Application mode	 Reaction kettle	 Microchannel reactor	 Side window reaction kettle

Laser wavelength	785nm and 1064nm (optional)
Probe length	30 cm, customization supported
Channel	Standard single channel, 1-4 channels are optional
Immersion probe	Models: PR100, PR200 and PR300, which are matched with different reactors and reaction conditions
Flow cell	Model: FC100, FC 200 and FC300, which are matched with various pipe connections and reaction conditions
Window	Resistant to strong acid and alkali and applicable to such systems as for hydrofluoric acid
Software functions	On-line monitoring, continuous data acquisition, data analysis, data comparison, method research, modeling, etc.
Ambient environment	Working temperature: 0-40℃; storage temperature: -20-55℃

Software functions

Online monitoring   Data acquisition

Data processing   Research methods

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