

# Zhengzhou Cialan Instrument Equipment Co.,Ltd

Add:NO.9-1,Zhengzhou Area(Jinshui),Henan Pilot Free Trade Zone.

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## FTIR-650S Fourier transform infrared spectrometer

### Introduce

The FTIR-650S Fourier transform infrared spectrometer is a new product in the FTIR-650 series product family that has been favored by market users for more than a decade. The product has a higher signal-to-noise ratio, higher stability and a better operating experience, and has better moisture resistance and electromagnetic interference capabilities. It can be widely used in disease control, pharmaceuticals, basic scientific research, fine chemicals, electronics. Electrical, petrochemical smelting and third-party testing are indispensable analytical testing tools for laboratory scientific research and enterprise production, and a good assistant for you to improve your testing level.



### Product features

#### ▲ High-efficiency optical system design

-- Design of high-intensity infrared light source module

Through the optimization design of the infrared light source, the background energy value is increased by up to 50% compared with the FTIR-650, which significantly enhances the infrared radiation energy in the low-frequency and high-frequency bands, making the energy distribution in the whole band (7800~350cm<sup>-1</sup>) more balanced.

-- Design of high-performance interferometer module

While inheriting the stability advantages of the angle mirror interferometer, the optical system is further optimized, so that the FTIR-650S has an excellent signal-to-noise ratio of 45000:1, which is numerically increased by up to 50% compared with the corresponding signal-noise ratio of FTIR-650, which can better meet the detection of conventional weak signals in practice. Application requirements.

#### ▲ New exterior design

The more convenient power switch position design can effectively solve the customer's

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daily repetitive and laborious switch pain points;

A more intuitive power switch style design can grasp the operation status of the instrument in a more timely and accurate manner;

It is more convenient to open the hatch, which is convenient for the operator to complete the sample collection and release more effectively, thus effectively improving the sample detection efficiency.

## ▲ Multiple moisture-proof design

The structural design of a larger-capacity desiccant cylinder greatly reduces the frequency of desiccant replacement;

The better moisture-proof design of the interferometer and detector effectively protects the optical system and detection system of the infrared spectrometer from interference and corrosion from external moisture and harmful gases.

## ▲ Anti-electromagnetic interference design

The more optimized electromagnetic interference design effectively reduces external electromagnetic radiation on the one hand, and on the other hand, effectively improves the anti-electromagnetic interference ability of the system itself to meet the requirements of the electromagnetic compatibility design specification (EMC [Note]).

Note: EMC test, also known as electromagnetic compatibility test, specifically includes interference size (EMI) and anti-interference ability (EMS) in electromagnetic field, which is one of the very important indicators of product quality.