

## FT-IR Emission Spectroscopy

## ATP8900-RE

### Features

- Compact light path;
- less radiation loss;
- Automatic light path switching ;
- 1-10 micron medium-near infrared band ;

### Application

- Study the emission profile characteristics of the material
- Calculate the firing rate of the material
- The emission spectrum of mugwort column combustion
- Emission spectra of the ceramic sheet at different temperatures
- Testing of various physical therapy instruments in medical devices
- (Near) infrared light source test
- Spectral testing of ultra-high temperature samples
- Emission measurements of the plasma
- Emission research of human body acupoints
- Emission measurement of glass and building materials
- Emission measurement of solar energy collector tubes
- Emission measurement of various fabrics

### Description

ATP8900-RE is a Fourier transform infrared emission spectromete. The spectrometer integrates a specialized emission platform and can be installed with various emission accessories and reference blackbodies to meet the characterization needs of different materials at different temperatures. The main unit of the spectrometer is equipped with dual detector positions, making it convenient for users to switch between multiple detectors for measurement at any time. Flexible light path design, users can choose focused light path or parallel light path to suit different samples. In addition, ATP8900-RE can also replace the internal optical components to expand the measurement spectrum to the near-infrared band to meet the emission measurement of near-infrared light sources.



## Parameter

### Physical parameters

Spectral range	Standard range 500~5000 cm-1 (Optional 400-7500cm-1, 400-10000cm-1, or extended to near infrared 12500 cm-1)
Spectral resolution	Better than 2 cm-1, typically used in 8 cm-1
measurement method	Place samples at focus point, choose different temperature controllers or blackbody working conditions: Working temperature: -5~40°C; Working humidity: 0~100%R.H.
Power	100~240VAC, 50~60Hz, 20W;
weight	12kg
size	44 cm×33 cm×18cm(W×D×H; Includes launch baffle)

### Product configuration

Interferometer	Advanced Michelson interferometer, permanent Optical path collimation, excellent stability
solid-state laser	Stable performance and service life of more than 10 years
emission source	Focus light path, sample or heat source or blackbody
beam splitter	ZnSe material beam splitter and ZnSe window prevent optical components from deliquescence (KBr, quartz beam splitter optional)
Detector	Built-in dual detector positions, you can choose normal temperature detector or low-temperature MCT, indium gallium arsenide, realize automatic switching by software
Optical path design	Dedicated emission light path design, reduces radiation loss and increases radiation flux
launch accessories	Various accessories can be customized to meet actual testing needs