



ATP8900
FT-IR Spectrometer

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Description:

ATP8900 FT-IR spectrometer employs high-performance-to-price ratio, considered users application habits, and they are widely applied to pharmaceutical, chemical, food, petrochemical, gemstones, macromolecule, semiconductor, material science etc. It can be attached to various accessories of transmission, diffuse reflection, attenuated total reflection (ATR), non-contact external reflection etc. Whatever they are applied to Universities, scientific research, or industrial fields of QA/QC application analysis, ATP8900 will be your ideal model.

ATP8900 FT-IR spectrometer employs new type of maglev plane mirror, driven by electromagnetic, with 3-D laser control, digitalizing continuous auto-adjust, DPS controllable, auto optimized system energy, without manual adjustable.

ATP8900 is configured intelligent auto reminder of humidity, which can reduce operator maintenance works. Electronic humidity can be intuitively displayed in numbers will remind users to replace desiccant in order to avoid potential risk during operation;

ATP8900 fit to measure powder, liquid with easy-to-operate, it takes only few steps to finish tests.

Application:

- Scientific Research
- Public Security
- Petrochemical
- Pharmaceutical Engineering
- Quality Control
- Environmental Protection

Product data information is current as of publication data. Products conform to specifications per the terms of Optosky Standard warranty.

Features:

- 1) Intelligent human machine interaction design, easy-to-operate software enable experts or non-experts fast to learn operation
 - 2) Interferometer: new type of maglev plane mirror, driven by electromagnetic, with 3-D laser control, digitalizing continuous auto-adjust, DPS controllable, auto optimized system energy, without manual adjustable.
 - 3) Beam splitter: high quality KBr substrate germanium coated
 - 4) Receiver: High performance DLATGS detector with moisture-proof, auto identification, super 24 bits 500KHz high precision A/D exchanger in order to ensure fast acquire spectrum data.
 - 5) Data transfer interface: Standard USB2.0 two-way communication
 - 6) Support system: Windows XP, Windows Vista, Windows 7, Windows 10;
 - 7) Powerful software functions: auto diagnosis function ensure status and correct test parameters, powerful data processing & analyzing software, easy-to-operate peak marking, peak areas integration time, baseline calibration etc.
- IR software: IR control, spectrum operation, data exchange, multi-group quantity, H₂O/CO₂ auto-offset, self-inspection, macroprogram software;
- 8) In-situ, online hardware diagnosis: continuous online diagnosis, continuous online monitor all optical components of lasers, light source, detector, beam splitter; in order to ensure always smooth working status, H₂O/CO₂ auto-offset can remove H₂O or CO₂ in the air;
 - 9) Integrated sealed optical platform can improve transmission efficiency of light, moisture-proof, it fits to various working environment and reduce effect caused by air absorption. ;
 - 10) Analytical software, standard transmission accessories, such as liquid sample cell or KBr sample making accessories. Sample compartment is convenient to install sample making accessories. fast to make samples, shorten cleaning time, extend more functions;
 - 11) IR spectrum analysis system, unknown samples can auto search spectrum analysis, and it can support self-built library
 - 12) Light source: long life span, high energy cooled air mid-ir light source, pre-calibrate, precision positioning, no need to open optical cap can connect light source by external wireless. No need tool adjust can stabilize within 3 seconds. Auto lock function can lengthen light source life span.

1 Performance

System Parameters	
Spectral Range	7800~350 cm ⁻¹
Resolution	1.0 cm ⁻¹
Detector	High sensitivity DLATGS detector with moisture-proof
ADC bit-depth	24 bit
Light splitter	KBr sub substrate germanium coated
Scan Speed	Scan speed set controllable by software
Light Source	Long life span, high intensity, air-cooled IR light source, energy rate>30%
SNR	> 30000: 1 (P-P value, 4 cm ⁻¹ , 1 minutes background and sample scan, 2100 cm ⁻¹)
Linearity	<0.1% (4400~500 cm ⁻¹ , H ₂ O & CO ₂ excluded)
Built-in Li-battery life span	>8 hrs
Power	AC220V / 50Hz
Dimension	355mm×265mm×160mm
Weight	9.6 kg
Interface	USB 2.0
System	Windows XP, Windows 7, Windows 10
Configured analytical software	<p>Powerful functions: Self-diagnose function ensure correct working status, test parameters, powerful data process analysis software, easy-to-operate marking, peak, peak area, baseline correction etc.</p> <p>IR software: IR control, spectrum treatment, data exchange, multi-group quantitative operation software; H₂O/CO₂ auto-offset, self-inspection, macro-programming software;</p>
IR spectrum library	Library> 100,000, including high polymers, pharmaceutical drugs, organic solution, chemical reagent, biological reagent, inorganic, minerals, fibers, dyes,pigment, narcotics, drugs etc

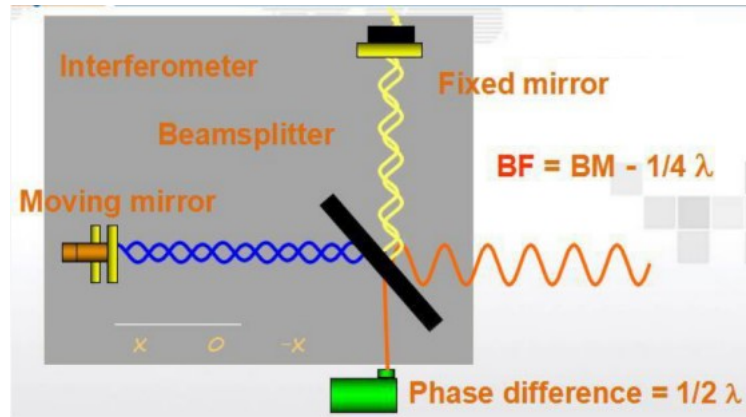


Fig 1 ATP8900FTIR spectrometer working principle



Fig 2 Easy-to-replace drying unit, the desiccant can be kept drying inside release maintenance work. Meanwhile, sample compartment lid can be removed to put various IR accessories.

Wide range of application

Other magnetic stirrer bring us trouble

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