

INFRA 3010

Portable Fourier Transform Infrared and Raman Spectrometer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

The Infra3010 combines the functionalities of both handheld Fourier transform infrared (FTIR) spectrometers and handheld Raman spectrometers, integrating FTIR technology with high-frequency Raman-based mapping spectroscopy. It not only achieves a wide range of chemical identification than standalone infrared or Raman spectrometers but also enables mutual validation of test results between the two technologies in specific applications, thereby enhancing credibility.

Application Fields:

Applicable to rapid screening in multiple deployment scenarios across industries such as customs, military, armed police, public security, border defense, firefighting, and food & drug administration. It enables on-site qualitative analysis of suspicious substances. (e.g., drugs, chemical agents, explosives, flammable/explosive materials) with various physical states (solids, powders, liquids, pastes, etc.), quickly obtaining test results to improve users' disposal and decision-making processes.

Advantages:

Professional: Developed for on-site rapid testing needs, it supports handheld/portable operation and requires no complex pretreatment.

Precise: By leveraging the synergy of complementary physical mechanisms (dipole moment and polarizability), it enables expanded capabilities in chemical substance identification, and improves the accuracy and reliability of analysis.

Characteristic: Compact and lightweight, it meets unique requirements such as on-site rapid testing and mobile law enforcement.

Innovative: The handheld integrated infrared-Raman spectrometer that combines Fourier transform infrared (FTIR) spectroscopy and high-frequency Raman-based mapping spectroscopy.

Specifications:

Size	214 mm × 124 mm × 63 mm
Weight	1.95 kg
Spectral Range	Infrared: 4400–630 cm ⁻¹ ; Raman: 160–2830 cm ⁻¹
Resolution	Infrared: Better than 3.5 cm ⁻¹ ; Raman: Better than 6 cm ⁻¹
Testing Time	Infrared: ≤5 seconds; Raman: ≤3 seconds
Measurement Modes	Infrared: Single-reflection diamond ATR; Raman: Supports both single-point measurement and point-by-point mapping measurement
Operation Mode	Keypad operation
Battery	Built-in 18650 standard lithium battery (3.7V, 2 cells, usable for over 6 hours)
Database	20,000 spectra, supporting self-built libraries
Language	English

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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Our Products & Technologies



LCMS



Maldi TOF



Optima Gas Chromatograph



Flash Chromatograph



DAC Column



GCMS 3068



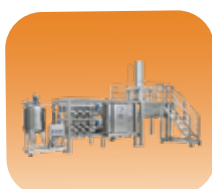
UHPLC



HPTLC



Ion Chromatograph



Production HPLC



HPLC



Column



DLS



Water purification system

▶▶▶ Regulatory compliances



▶▶▶ Corporate Social Responsibility

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Analytical Foundation

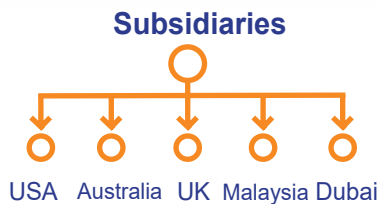
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2. Improving quality of life by offering **YOGA Training courses, Work shops / Seminars** etc.

3. **ANALYTICAL FOUNDATION** aims to DETOXIFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Naturecure, Health Care, Ara, Events, Camps etc.

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