

Technical Specification for FTIR Spectrometer with ATR

Compact FTIR with sealed and desiccated optical unit.

Ø Offered system must be capable to use without any purging gas for sample compartment/optics/detector

- Ø Wavelength range : Must be minimum 500-6000cm⁻¹ or better
- Ø Spectral resolution : Must be minimum 0.7 cm⁻¹ or better
- Ø Wavelength precision : 0.0005 cm⁻¹ at 2,000 cm⁻¹
- Ø Wavelength accuracy : ≤0.05 cm⁻¹ or Better
- Ø Signal to Noise Ratio : 55,000:1 1min or Better
- Ø Photometric Accuracy : Better than 0.1%T

Ø Source: Long-life centre glow source.

Ø Beam splitter: High Humidity ZnSe.

Ø Detector: High sensitivity DLATGS with temperature control

Ø Optics are sealed and desiccated, all mirrors gold coated or Better

Ø High humidity resistance ZnSe windows.

Ø Software: A single software platform incorporates all of the functions required for infrared analysis,

Ø Computer Interface Ethernet, remote control via W-LAN

Ø Accessories for pellet making machine, with vacuum facilities.

Ø Warranty: 3 year for the equipment, 10years for laser, Interferometer and 5 years for source

Ø Installation & demonstration: Free of Cost.

Ø Instrument must be quoted with Diamond ATR, Accessory recognition should be done automatically by the system & it should be ideal for direct sample analysis in the form of Solid, liquid, Gas paste, gel, powder & packing material film with diamond crystal.

Ø 100-200 VAC, 50-60Hz, 20W (Low energy consumption) Rechargeable battery pack, car battery connector, slat tablet PC or Better