

FOURIER-TRANSFORM INFRARED SPECTROPHOTOMETER (FTIR)



Make: Perkin Elmer

Model: Spectrum Two

Key Specifications:

Wavelength Range	8,300 – 350 cm⁻¹
Spectral Resolution	0.5 cm⁻¹
Wavelength Precision	Better than 0.01 cm⁻¹ at 3,000 cm⁻¹.
Wavelength Accuracy	0.1 cm⁻¹ at 3,000 cm⁻¹.
Signal-to-Noise Ratios	9,300:1 (peak-to-peak, 5 seconds) 32,000:1 (peak-to-peak, 1 minute)
Interferometer:	Rotary Michelson interferometer with vibration-isolated baseplate
Optics	Kinematically mounted, zero alignment optics, and OpticsGuard system for axis protection
Detector	DTGS
Beam splitter	Proprietary extended range KBr
Validation	Software-controlled validation using polystyrene references and NIST traceability
Optical Windows	KBr