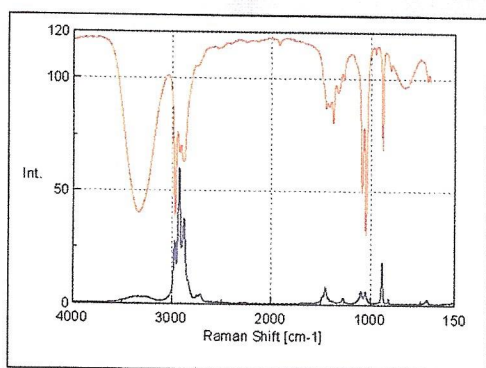


# The FT/IR-4000 Series

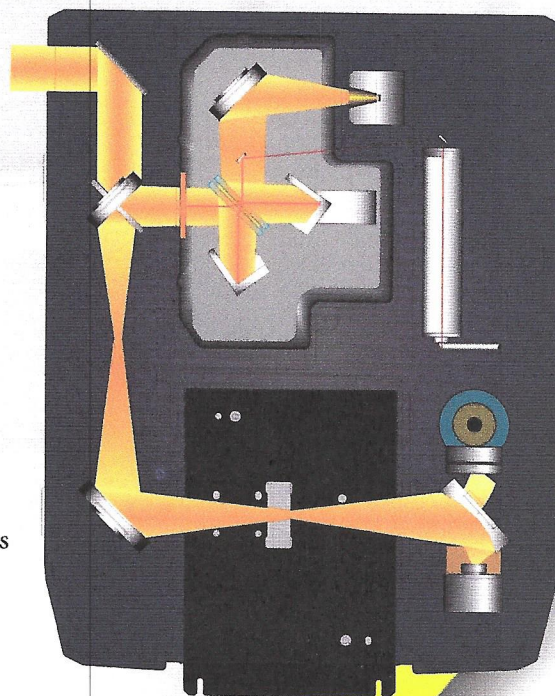
Robust, High Sensitivity FT-IR Systems for Education and Routine Analysis

- Higher Signal-to-Noise Ratio than Competitive Systems
- Easy, Single Step Analysis and Data Processing
- IR Imaging with Multichannel Microscope and Rapid Scan Option

The new Jasco FT/IR-4100 and FT/IR-4200 were designed to provide operational features and sensitivity levels found only in more expensive instruments. The innovative technology incorporated in these instruments results in exceptionally high signal-to-noise ratio specifications. Both models offer exceptional flexibility and can be easily upgraded to meet new requirements. Optional expandability includes microanalysis with an IR microscope, IR imaging with a multichannel microscope, and rapid scan option. The Jasco Quick Start System enables users of all experience levels to measure samples and perform data processing functions quickly and easily with a simple push of a button.



The FT/IR-4000 and FT/IR-6000 Series are controlled by Jasco's exclusive Spectra Manager™ II cross-platform software. This enables the instruments to be operated with other complimentary spectroscopic techniques and provides complete 21 CFR Part 11 compliance with Spectra Manager™ CFR.



FT/IR-4000 Series  
Optical Design

## FT/IR-4000 Series Specifications

	FT/IR-4200	FT/IR-4100
Wave Number Range	7800-350	
Expandable Wave Number Range	15000-2200, 5000-220	
Resolution	0.5	0.9
S/N Ratio	30000:1	22000:1
Detector	DLATGS (Option: MCT, Si, InSb, InGaAs)	
Beam Splitter	Ge/KBr (Option: Si/CaF <sub>2</sub> , Ge/CsI)	
Light Source	High intensity ceramic light source	
Interferometer	Sealed structure, corner cube mirrors, auto-alignment, DSP control	
Interferometer Drive Mechanism	Mechanical bearing, electromagnetic drive	
Interferometer Drive Speed	2, 4 mm/sec	
Purge	Standard (Interferometer, sample compartment, detector)	
Interface between PC and FT-IR	USB	
Option	Rapid scan (10 Hz), Microscope, IR imaging with multi-channel microscope	
Dimension	460 W x 590 D x 290 H mm	

## FT/IR-6000 Series Specifications

	FT/IR-6300	FT/IR-6200	FT/IR-6100
Wave Number Range	7800-350		
Expandable Wave Number Range	15000-20		
Resolution	0.07	0.25 (Option: 0.07)	0.5 (Option: 0.07)
N/R Ratio	50000:1	45000:1	42000:1
Detector	DLATGS (Option: MCT, Si, InSb, InGaAs, PAS)		
Beam Splitter	Ge/KBr (Option: Si/CaF <sub>2</sub> , Ge/CsI, Mylar®)		
Light Source	High Intensity ceramic light source (Halogen lamp, mercury lamp water-cooled)		
Interferometer	Sealed structure, corner cube mirror, auto-alignment, DSP control		
Mirror Coating	Au	Al	Al
Interferometer Drive Mechanism	Mechanical bearing, electromagnetic drive		
Interferometer Drive Speed	0.125 to 8 mm/sec	0.5 to 8 mm/sec	0.5 to 8 mm/sec
Purge	Standard (Interferometer, sample compartment, detector housing)		
Interface between PC and FT-IR	USB		
Rapid Scan	Standard (20 Hz)	Option (20 Hz)	Option (20 Hz)
Option	Step Scan, Microscope, IR imaging with multi-channel microscope, FT-Raman, vacuum		
Dimension	600 W x 670 D x 315 H mm		

FT-IR • UV-Vis • Fluorescence • Chiroptical • Chromatography



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