

Scimitar FTS 2000

Digilab's Entry Level General Purpose Spectrometer



Derived from the legendary Excalibur platform, the FTS-2000 Scimitar spectrometer is a mid-infrared spectrometer designed for laboratories looking for a reliable, easy to use, "no compromises" mid-IR spectrometer. The spectrometer features a full-size sample compartment enabling all industry standard sampling accessories to be used. Because the Scimitar shares Excalibur technology, its' spectroscopic performance ensures that virtually all sampling techniques such as attenuated total reflectance, specular reflectance, and diffuse reflectance can be performed without a compromise in the confidence of your results. The instrument comes standard with a multimedia training CD-ROM and Merlin software. Merlin is a full-featured spectroscopic data collection and analysis program that includes the ability to perform simple quantitative analysis and spectral searching.

The spectrometer features Digilab's Permatrac 3™ 60° Michelson interferometer with AutoTrac™ patented dynamic alignment. Digilab's dynamic alignment means that you will have reliable operation and reproducible results from your spectrometer.

Scimitar spectrometers utilize a USB interface, making instrument, PC, and peripheral connectivity simple and fast. Scimitar's standard computer has a Pentium processor, Windows 2000 operating system, Ethernet, CD Rom, and a 15" flat panel monitor.

Features

Merlin Software, a full-featured application that has an easy-to-use "toolbar" and is powerful enough to allow the user to perform Beer-Lambert quantitative analysis

Merlin Training CD, a multimedia application that instructs the user on the use of Merlin

Optional EasyID software for pass/fail QC analyses

On-board hardware diagnostics that continuously operates, ensuring optimal operation of the spectrometer

Long lifetime Permaglow™ high intensity air cooled source

Peltier cooled DTGS detector that ensures stable detector performance

Internal polystyrene calibration standard

Sealed and desiccated spectrometer enclosure with KBr windows

500 g dessicant cartridge (largest in class) ensures spectra with minimal water vapor "artifacts" in the baseline

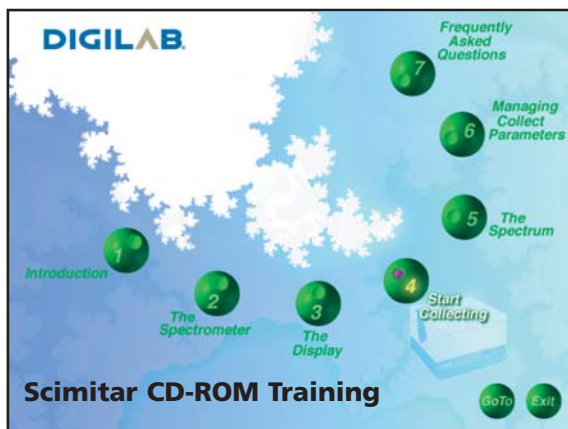
Optional "tropical" enclosure with KRS-5 windows

1 cm⁻¹ resolution (0.5 cm⁻¹ optional)

12-month on-site warranty (parts and labor) on the spectrometer, 5 years (parts only) on the source & interferometer (beamsplitter excluded)

SPECIFICATIONS

Scimitar Spectrometer Specifications	
Resolution (cm ⁻¹)	1.0 (optional 0.5)
Spectral Range/Beamsplitter	Mid-IR/KBr (8000-375 cm ⁻¹)
Source	Ceramic air cooled
Detector	DTGS
Dynamic Alignment	Yes
Accessory Recognition Technology	Yes
Diagnostics/Validation	Yes
Sealed and Desiccated Enclosure	Yes
Moisture Capacity of Dessicant	92 g H ₂ O at 60% R.H. & 70°F
Tropical Enclosure (Sealed & Desiccated with KRS-5 Windows)	Optional
Spectrometer Interface	USB
Signal to Noise Ratio* (S/N)	20,000 : 1
*Computed from an open beam sample scan at 4 cm ⁻¹ resolution	
Optional microscopes	Yes (UMA 400/600)
Infrared Power	40 mW at the sample (with optional motorized aperture)



Scimitar Physical Specifications	
Sample Compartment Dimensions (Width x Depth x Height)	22.9 x 25.4 x 19.1 cm 9 x 10 x 7.5 in
Spectrometer Dimensions (Width x Depth x Height)	58 x 64 x 38 cm 22.8 x 25.2 x 15 in
Voltage Requirements	100-240 VAC ±10%, 50-60 Hz
Spectrometer Power Consumption	200 VA
Heat Dissipation	600 Btu/hr
Environmental Operating Conditions	20° to 26°C (68° to 80°F)
Relative Humidity	20% to 50% non-condensing
Altitude	3000 m (9842 ft) maximum

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