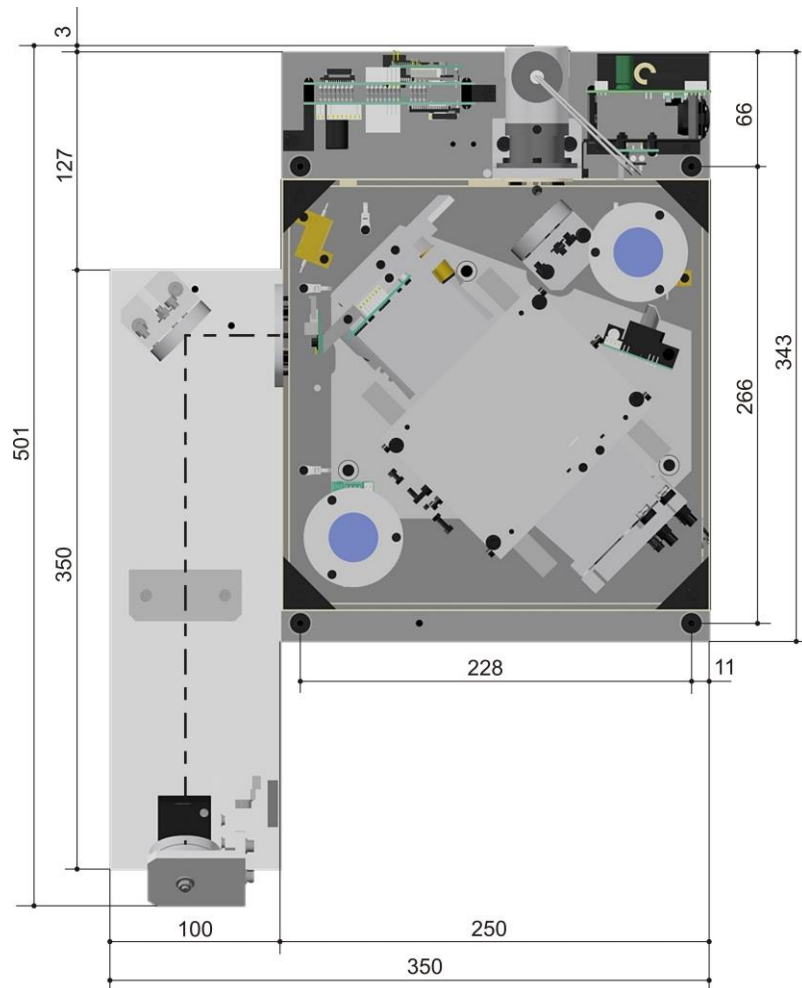
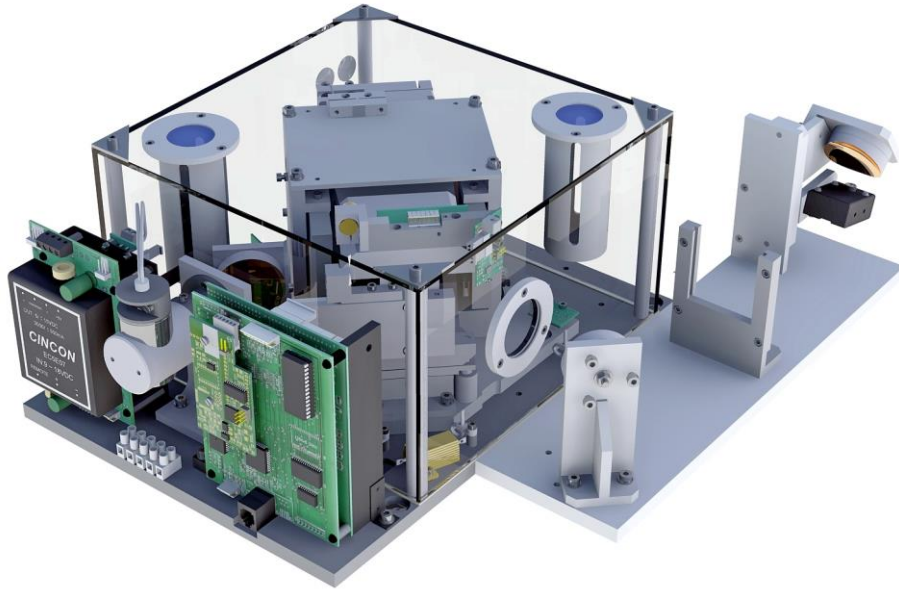


Educational modular FTIR spectrometer Interspec 403-X



Interspec 403-X is an educational Fourier transform infrared (FTIR) modular spectrometer for teaching spectroscopy in the science and university labs to promote the use of infrared spectroscopy as a general-purpose, broad-based measurement tool, and to enable the use of state-of-the-art FTIR technology for teaching and science purposes. With the wavenumber range from 7000 to 400 cm^{-1} and spectral resolution of 1 cm^{-1} , the interferometer module with detector system, power supply and data acquisition system forms an open architecture sample compartment modular spectrometer capable to use any FTIR accessory available in the market. It makes the instrument very flexible for different kind of applications in science and teaching lab. The interferometer module has a transparent plastic cover to allow visual access to all of its major parts, 38-mm collimated output beam, a multicoated KBr beamsplitter, a high-intensity ceramic IR source and USB interface. FTIR spectroscopic software Interspec for Windows is a program for running the spectrometer and for complete handling of measured infrared data.

Specifications:

Wavelength range, IR	7000 to 400 cm^{-1}
Wavelength range, NIR	determined by detector: 14000-5800 cm^{-1} or 9000-3850 cm^{-1}
Resolution	1 cm^{-1} (option 0.5 cm^{-1})
Frequency reference	VCSEL laser
Output beam diameter	38 mm
Optical axis height	87 mm
Data acquisition system	18 bit, high speed
Interface	USB 2.0
Software	Windows based
Power	12 VDC, 30 W
Size, interferometer module	346x250x160 mm
Size, whole system	501x350x160 mm
Weight	11 kg

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