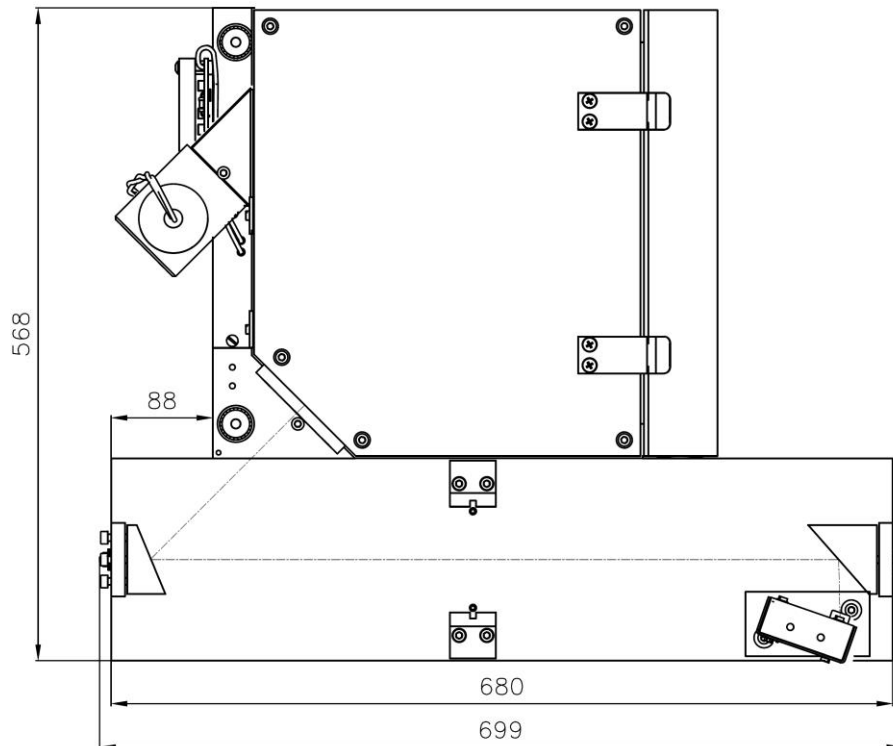
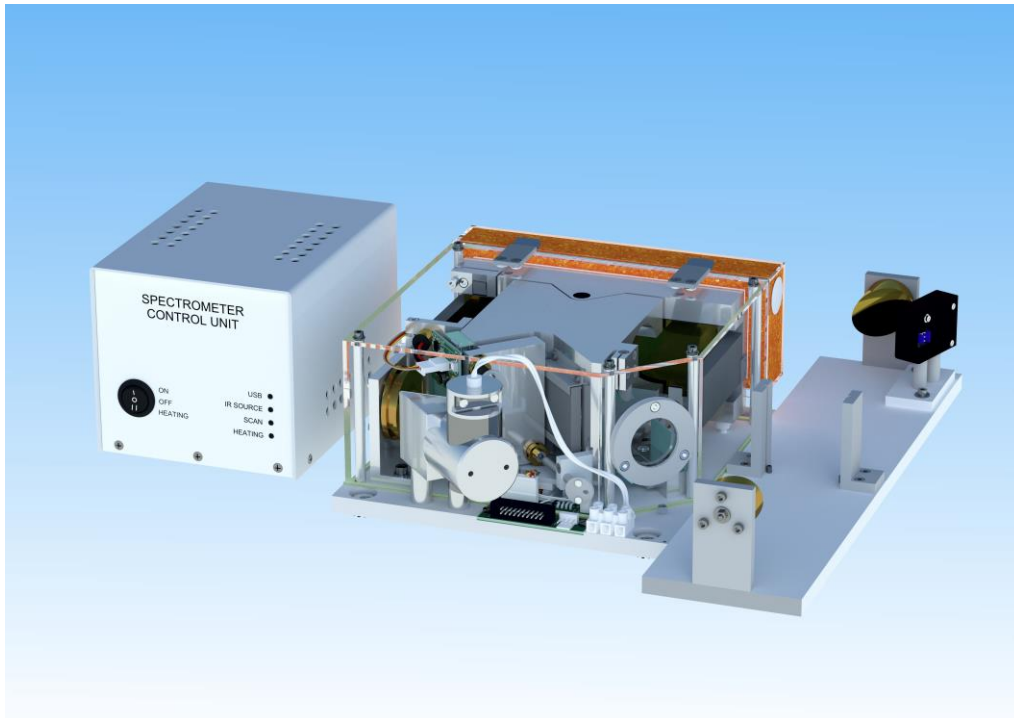


# Educational FTIR/FTNIR modular spectrometer Interspec 408



Interspec 408 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  $\text{cm}^{-1}$  and spectral resolution of 2  $\text{cm}^{-1}$ , the interferometer module with detector system, power supply and data acquisition system forms an open architecture sample compartment modular spectrometer capable to use most of FTIR accessories 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 it's major parts, 25-mm collimated output beam, a multicoated KBr beamsplitter, a high-intensity ceramic IR source, and an 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 $\text{cm}^{-1}$
Wavelength range; NIR	determined by detector: 14000-5800 $\text{cm}^{-1}$ or 9000-3850 $\text{cm}^{-1}$
Resolution	2 $\text{cm}^{-1}$
Frequency reference	VCSEL laser
Interferometer	Pendulum type with roof mirrors
Output beam diameter	25 mm
Optical axis height	55 mm
Data acquisition system	24 bit, high speed
Software	Windows based
Interface	USB 2.0
Power	12 VDC, 25 W
Size, interferometer module	26x19x10 cm
Size, "sample compartment"	34x9x7 cm
Weight	6 kg

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