

FTIR/FTNIR SPECTROMETER



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COMTEK
ISO9001&CE Certified

FTIR/FTNIR BENCH TOP SPECTROMETER INTERSPEC 200-X

General:

The Interspec 200-X series of FTIR spectrometers represent a cost-effective Fourier transform infrared spectrometers and employ a number of unique features that ensure high performance from a compact instrument.

The Interspec 200-X measures just 59 X 39 X 19 cm and is regarded as one of compact and versatile infrared FTIR spectrophotometers. The design of the 200-X is unique both in terms of optical design and the software and firmware designed specifically to significantly reduce overall analytical times.

Interferometer Performance :

As you will see the sample compartment is large indeed and can accommodate all of the normal sample handling requirements relating to FTIR spectroscopy. This unique compartment will also accommodate the wide range of accessories supplied by specialist accessory manufacturers.

Overall dimensions are W20 X D26 X H16 cm. The optical axis is 74.5 mm above the base of the sample compartment and there is free space of 90 mm above the optical axis to the underside of the lid.

Specifications:

Wavelength range: IR 7000 to 400 cm^{-1}

Wavelength range: NIR 14000-5800 or to 9000 – 3850 cm^{-1}

Resolution, standard: 1 cm^{-1}

Resolution,: option 0.5 cm^{-1}

Interferometer Pendulum roof mirror type

Beam diameter 30 mm.

Aperture ratio f 3.2

Beamsplitter: standard IR Multicoated KBr

Beamsplitter: option Multicoated ZnSe

Beamsplitter: standard NIR Fused Silica

Frequency reference VCSEL laser

Emission port Option

Sample compartment : W20xD26xH16

cmBeam at sample 10 mm dia.

Accessories Ordinary FTIR accessories

IR source High intensity air cooled ceramic

NIR source Quartz-halogen lamp

Detector: IR Standard low noise DLATGS

Detector: IR Option MCT

Detector: NIR Si, InGaAs photodiode

Data acquisition system 24 bit, high speed

Purge possibility: Yes

Operating system: Windows based

Interface: USB 2.0

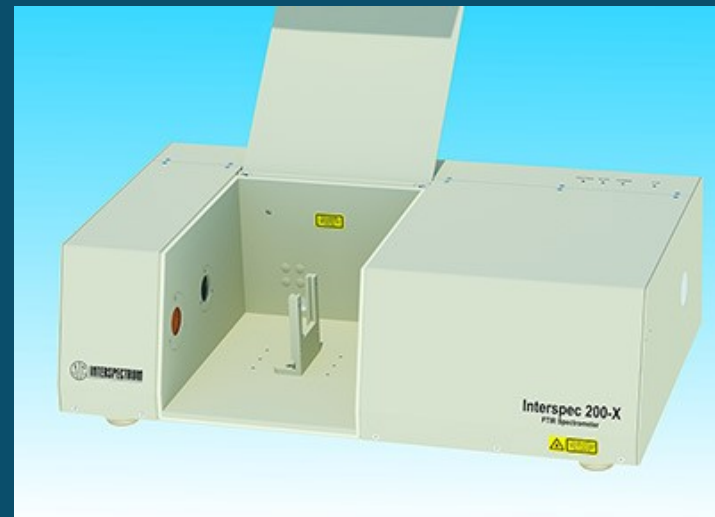
Power: 12VDC, 30 W

Dimensions: W59xD39xH19 cm

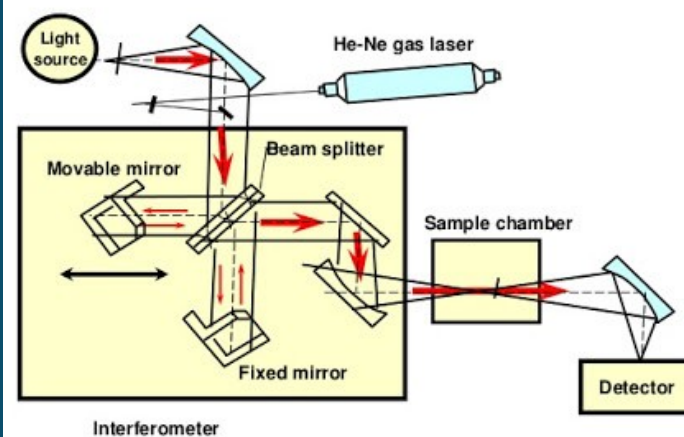
Weight: 24 kg

Temp: Environment 15 – 28 $^{\circ}\text{C}$

Humidity: environment Best below 65%



FTIR Instrumentation



The Sample Compartment:

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Models:

- Interspec 200-X -Standard FTIR Instrument with KBr optics.
- Interspec 200-XZ – Non Water Sensitive FTIR Instruments for High Humidity with ZnSe optics
- Interspec 200-XN– near Infra Red Instrument with fused silica optics.