

FTIR Accessory



►► Diffuse/Specular Reflectance

The Diffuse/Specular Reflectance is an easy to use, both diffuse reflection and specular reflection accessory. Its advantages include high throughput, constant optical path with all mirrors positioned above the sampling area. This is a significant design feature which protects all the optical components of the accessory against spills and corrosion often caused by KBr/sample mixes. It also makes cleanup much easier, as accidental spills can be simply removed out of the bottom of the accessory.



►► Horizontal ATR

Total Reflection, ATR accessory is the general accessory for FTIR spectrometer. For easily sample processing and do not broken the surface configuration of the sample, the unit becomes the general ways to analyze surface configurations of different samples.

Different ATR accessory crystal has different length and thickness, so the infrared beam reflects different times during the ATR crystals. ZnSe or KRS-5 can be used as the horizontal ATR crystals materials. Assembly and disassembly of crystals are very easy.

The horizontal ATR accessory crystals requires horizontal located. The side face of ATR crystals is inverse trapezoidal, transect is rectangle. Different ATR accessory crystal has different length and thickness, so the infrared beam reflects different times during the ATR crystals. ZnSe or KRS-5 can be used as the horizontal ATR crystals materials.



►► Gas cell

Gas cell is a special accessory of FTIR spectrophotometer, used to analyze the infrared absorption spectrum measurement of gas. Normal use is in one atmosphere.

The window plates are made of KBr with a transmission wavelength of 2.5-25 μ m and optical path is 100 or 50mm. If there is a special need, it can also be equipped with CaF₂, NaCl, KRS-5 and other materials.



►► Fixed liquid cell

Fixed liquid cell is a specialized accessory for IR instruments. Usually, It is used for volatile samples, which can't be measured by demountable liquid cell. The material of the window for this cell is KBr, the wavelength range is from 2.5 μ m~25 μ m. For some special purpose, some other windows can also be provided, such as CaF₂KBr, NaCl, KRS-5 and so on.



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