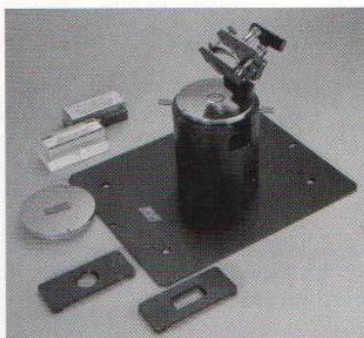


## Single Bounce / Multi Bounce HATR

### *Economical, easy to use HATR*

Most Attenuated Total Reflectance accessories have characteristic multi-reflection designs. The shorter pathlength and high throughput of a single reflection HATR make it the ideal accessory for the analysis of strong IR absorbers. The Single-Bounce HATR uses a ZnSe crystal (other materials available) for high throughput sampling that yields increased sensitivity and maximum reproducibility. The crystal design ensures leakproof sampling. The accessory is factory pre-aligned and can be ready for sampling in just minutes. This is an economical choice for users in the quality control and academic environments, where routine analyses of neat solvents, aqueous solutions, powders or film samples are performed. In most cases, no sample preparation is necessary to obtain good spectral data. A cover is provided to minimize evaporation of volatile samples.



For the analysis of powders or films, a MiniGrip pressure device is included to provide maximum sample contact with the crystal surface. The powder retention ring minimizes the risk of getting powders inside the accessory and sample compartment. This accessory is baseplate mounted for maximum sampling reproducibility.

## Applications

- Biological fluids
- Analysis of neat solvents
- Aqueous samples
- Quality control analyses
- Flow studies
- Strong infrared absorbers

**See page 1-15 for the Single Bounce Flow Cell**

### *Multi Bounce Option*

When analyzing samples that are not strong IR absorbers and which require a longer pathlength, a 12 reflection Multi Bounce option is available. This attachment is a separate crystal plate that replaces the single bounce crystal plate. The Multi Bounce option allows the user to expand the application of the accessory to dilute solutions and other weakly infrared absorbing samples.

### Product Features

- ◆ Small sampling area
- ◆ Single reflection design
- ◆ Baseplate mounted
- ◆ Factory aligned

### Product Advantages

- Less sample volume required
- Ideal pathlength for strongly absorbing samples
- Rugged design and reproducible spectra
- Ready to use when received

### Ordering Information

PRODUCT NAME	PART NUMBER	DESCRIPTION
Single Bounce HATR	0006-1XX	Base Optical Unit, ZnSe Crystal, Powder Retention Device, MiniGrip Pressure Device, Volatile Liquid Cover and Manual
Single Bounce ZnSe Crystal Plate	0006-703	Single Bounce ZnSe crystal mounted in top plate, pre-aligned
Single Bounce Ge Crystal Plate	0006-713	Single Bounce Ge crystal mounted in top plate, pre-aligned
Multi Bounce ZnSe Crystal Plate	0006-763	Multi Bounce ZnSe crystal mounted in top plate, pre-aligned, MiniGrip modification, Powder Retention Device & Volatiles Liquids Cover
Multi Bounce Ge Crystal Plate	0006-773	Multi Bounce Ge crystal mounted in top plate, pre-aligned, MiniGrip modification, Powder Retention Device & Volatiles Liquids Cover
Single Bounce ZnSe Crystal	7002-900	Replacement ZnSe crystal only
Single Bounce Ge Crystal	7002-901	Replacement Ge crystal only
MiniGrip	0006-751	MiniGrip and mounting screws
Single Bounce Flow Cell	0006-200	Flow Cell Body, O-rings, tubing and fittings