

DuraScope™

DIAMOND ATR ACCESSORY WITH VIDEO IMAGING



Feature Highlights

- **Diamond ATR**
- **38X Video magnification - allows you to see the specific area you're analyzing**
- **Samples as small as 50 µm are handled with ease**
- **System supports computer based image capture and archiving**

The DuraScope diamond ATR accessory with DuraVision™ unites the imaging capabilities of video microscopy with the versatility and simplicity of diamond ATR.

DuraVision provides a 38X video magnified image of your sample, seen through the diamond ATR element. This allows you to easily position a sample as small as 50µm, and view the sample in contact with the diamond internal reflection element (IRE) while collecting spectra.

Documenting your work has never been easier. In addition to seeing and analyzing your sample, DuraVision supports

computer-based image capture and archiving, which allows you to integrate images and spectra for outstanding photo-documentation and analytical reports.

DuraScope's patented DiComp™ diamond ATR technology offers a virtually indestructible sampling surface, yet retains exceptional optical characteristics. Its unique optical design focuses all the infrared energy into the sample for the highest signal to noise possible with diamond ATR.

Advantages of Diamond ATR:

- ✓ Small amount of sample needed
- ✓ No sample preparation
- ✓ Unlimited pH
- ✓ Abrasion resistant
- ✓ Easy to clean

General Specifications

Weight	14 lbs.
Size	6" x 10" x 15"
	Operation to 650cm ⁻¹ with ZnSe and 400cm ⁻¹ with optional KRS-5 DiComp sensor (limited only by spectrometer configuration)

Available Options

Multi-Reflection DuraDisks	Single-reflection DuraDisk Three-reflection DuraDisk Nine-reflection DuraDisk
Heating Capability	For calibrated, elevated temperature studies, at temperatures up to 100°C
Cooling Capability	Optional inlet and outlet ports for flow cooling solutions
AmplifIR™	The AmplifIR is a unique variable 45° specular reflection device designed specifically for thin film analyses
Gas Cell	High-pressure gas cell for FT-IR analysis is capable of testing gases up to 1000 psi and creates a generous 10 cm path length
Liquid & Flow Cell	For air sensitive samples, performing reaction analyses or other dynamic studies. The flow cell and the micro-volume flow cell permit convenient flow-through studies of aqueous and non-aqueous liquids at ambient or elevated temperatures.
ATR Libraries	Extensive ATR spectral libraries acquired with DiComp™ DuraDisks searchable with most versions of spectroscopy software

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