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SensIR Technologies

- **Universal sample interface for ALL FT-IR analyzers**
- **No Sample Preparation**
- **Full pH range**
- **Upgradeable**
- **Quick Clean-up**



DuraSampl*IR* II™

DuraSampl*IR* II is the fully upgradable version of the popular **DuraSampl*IR*™** diamond ATR accessory for FT-IR spectrometers. By adding **DuraSampl*IR* II** DiComp™ capability to your instrument today, you will enjoy the convenience of rapid sample change-overs, high energy throughput with outstandi ng sensitivity, chemical inertness for "worry-free" analysis of all solid and liquid samples, and abrasion resistance for long-term reliability.

Samples are pressed against the diamond IRE with the simple twist of a knob. The press supplies constant force for controlled compression without rotating the sample contact tip to prevent stripping or sheering of your sample. For samples requiring controlled, repeatable contact force, your **DuraSampl*IR* II** may be ordered or upgraded to include the force readout and overload alarm option.



DuraSampl*IR* II is available with a variety of DiComp DuraDisk™ models for enhanced sensitivity and to improve your quantitative results. Single and multi-reflection disks have been engineered using diamond, the world's most durable substance, and a ZnSe substrate for maximum IR signal.

For applications requiring visual confirmation of contact in the analysis area, your **DuraSampl*IR* II** may be upgraded to add **DuraScope**™ video imaging capability. Accurate positioning of fibers, contamination, ink spots, and other small features can now be accomplished easily and with complete confidence in your results.

15 Great Pasture Rd., Danbury, CT 06810
Tel: (203) 207-9700 Fax: (203) 207-9780

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DuraSampl*IR* II Options and Upgrades

DuraDisk (Choose one)

Single Reflection DuraDisk™

Diamond Thickness: 0.5mm
Applications: Samples requiring high pressure and/or high throughput.
Size: 1mm diamond diameter with 200um "sweet spot."
Mount: Flush for optimum sample contact
DuraScope Compatible: Yes
Temperature: 100 degrees C. Max.
Range: 4000-650
Diamond Absorption: Usually not visible in spectrum. 1900 - 2200cm^{-1} region undisturbed.

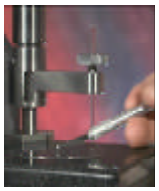
Triple Reflection DuraDisk™

Diamond Thickness: 0.35mm
Applications: For samples requiring increased sensitivity
Size: 2mm diamond diameter with 2mm "sweet spot" with concentric ring.
Mount: Flush for optimum sample contact
DuraScope Compatible: Yes
Temperature: 100 degrees C. Max.
Range: 4000-650
Diamond Absorption: Diamond absorption region (1900 - 2200cm^{-1}) useful for strong peaks.

Nine Reflection DuraDisk™

Diamond Thickness: 0.5mm
Applications: Samples requiring high sensitivity. Ideal for liquids.
Size: 4mm diamond diameter with 4mm "sweet spot" with 3 concentric rings.
Mount: Recessed sampling area for liquid retention.
DuraScope Compatible: No
Temperature: 100 degrees C. Max.
Range: 4000-650
Diamond Absorption: Diamond absorption region (1900 - 2200cm^{-1}) useless.

Force Applicator Option



Adds the functionality of integrated force indicator and overload alarm. Ideal for analysis of samples requiring uniform and repeatable contact. Force applicator features interchangeable tips.

Force Applicator Tip Options



Syringe - Ideal for dispensing and retrieving small measurable amounts of liquid.

Acrylic Rod - Allows light onto sample area for DuraScope applications.

Stainless Steel Rod - for high pressure contact.

DuraScope Video Imaging Option



With the DuraScope upgrade, your **DuraSampl*IR* II** equipped spectrometer will enjoy the imaging capabilities of video microscopy. You will view the sample through the DiComp sensor allowing you to verify the area of the sample you are analyzing and ensuring adequate contact.

With the addition of a video capture card, you can import video images into your computer system allowing you to include and archive pictures of your subject matter. Reports and presentations can now include these images.



Fiber positioned for analysis.



Fiber compressed for analysis

Represented by:

SensIR TECHNOLOGIES

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