AGA Accessory

AT A GLANCE

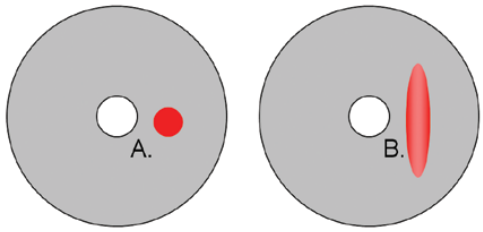
- Quantitative measurement of small areas of thin films and mono-molecular layers
- Fixed 80-degree angle of incidence
- Measurement of lubricants on hard disks
- Sampling dimensions selectable from ½, ⅜, ¼, 3⁄16 and ⅛ inch diameter
- Mount for optional polarizer
- Spectral range 10,000–500 cm^{-1}

PART NUMBER	DESCRIPTION
015-10XX	AGA – Grazing Angle Specular Reflection Accessory Includes 5 selectable spot sizes of ½", ⅜" ¼", 3⁄16" and ⅛", gold substrate alignment mirror, polarizer mount and FTIR base mount
	Note: Replace XX with your spectrometer's Instrument Code listed in the back of the catalog.
	Replacement Parts and Sampling Options
300-0002	Gold Substrate Alignment Mirror, 1.25 x 3.0"
090-1000	Manual Polarizer, ZnSe
090-1200	Manual Polarizer, KRS-5
	Note: For more polarizer options see the polarizer section of this catalog.

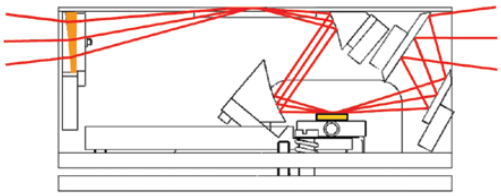
The Advanced Grazing Angle (AGA) specular reflection accessory is a tool designed for quantitative measurement of spatially defined areas of thin films on reflective substrates.

Traditional grazing angle accessories produce an elliptical and non-uniform spot size on the sample area. This causes problems when quantitative analyses are to be performed on small sample areas. To overcome this design deficiency, the AGA accessory focuses the beam from the spectrometer onto the pin mirror. The portion of the beam that is reflected from this mirror is imaged at unit magnification onto the sample, striking it at 80 degrees. Thus, the beam at the sample position is uniform and circular in dimension.

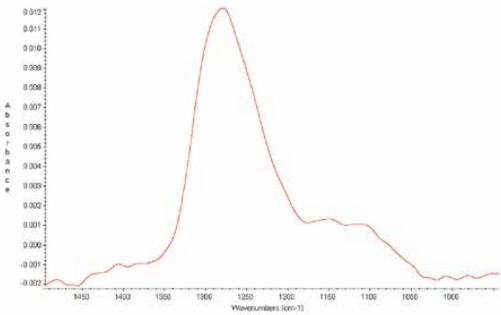
The selectable slide-mounted pin mirrors range from ½" to ⅛" diameter. The AGA allows excellent quantitative results for the defined sample area.



Sampling image on a hard disk surface produced by (A) the spatially resolved AGA and (B) a traditional grazing angle accessory.



Beam path within the AGA – Grazing Angle Specular Reflection Accessory.



FTIR spectrum of an 18-angstrom thick lubricant on a hard disk measured in 15 seconds using an MCT detector.

 6125 Cottonwood Drive, Madison WI 53719 | 608.274.2721 | info@piketech.com | www.piketech.com