Application Note

No. 260PR0120-E

Grazing angle reflection attachment

In the past, we offered the RAS-200 which is mounted horizontally on an XY stage. We now want to introduce our newly developed Cassegrain Micro-GAR (RAS-500) Our Cassegrain Micro-GAR (RAS-500) makes it easy to check the measurement area of the samples, and its strong points include its ability to set large samples.

Figure 1 and Figure 2 respectively show the optical system of the Horizontal Micro-GAR (RAS-200) and the Cassegrain Micro-GAR (RAS-500).

The Cassegrain Micro-GAR (RAS-500) employs a reflective Cassegrain mirror, enabling the measurement of large samples because it is possible to make measurements simply by placing a sample on the XY stage. A x 16 reflective Cassegrain mirror is used to check the measurement location, and then it is slid to switch it into the Cassegrain Micro-GAR (RAS-500) and measurements are made.

Figure 3 shows an example of measurement of a thin PMMA (poly methyl methacrylate) film of 200 to 300 Å using a 0° polarizer (P polarization) and a 90° polarizer (S polarization).
Sensitivity is increased by using only parallel polarization on the plane of incidence.

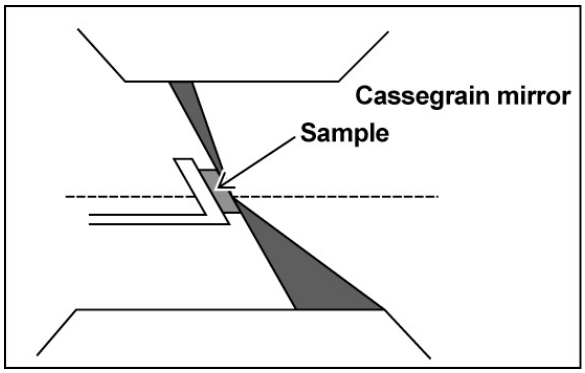

Fig. 1 RAS-200

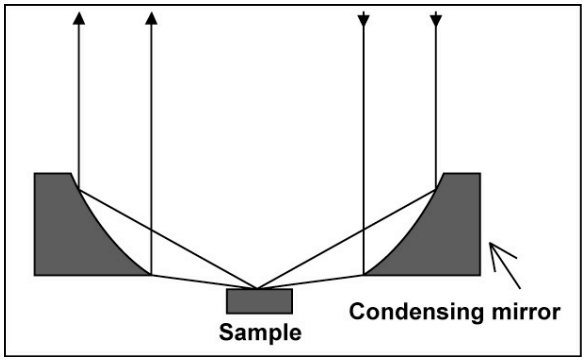

Fig. 2 RAS-500

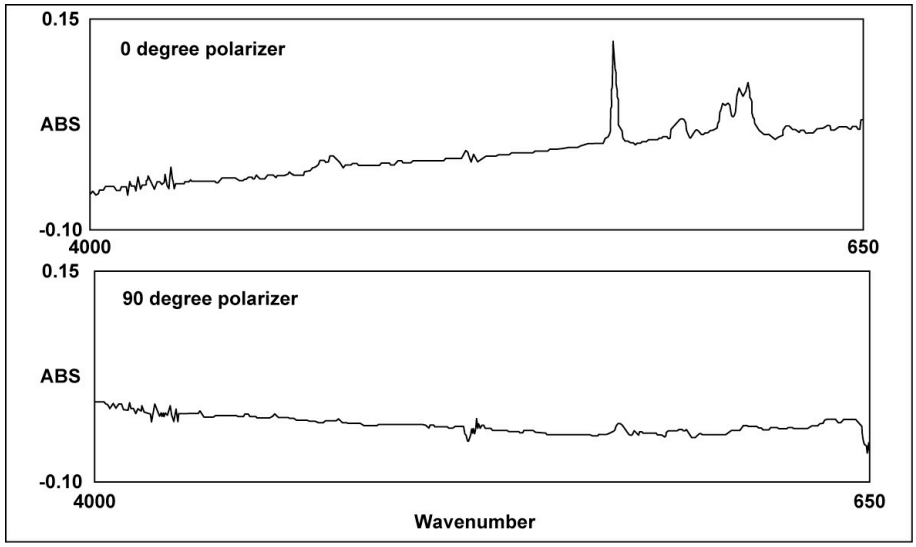

Fig. 3 PMMA Measurement by RAS-500

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