



HV Diffractometer < RDM-10 >



This diffractometer was manufactured for research of solid surfaces and thin film surfaces and interfaces. To observe the X-rays diffracted from the surface of a sample in any direction, this instrument has a four-axis structure comprising 2+2 axes.

With an ultra-high vacuum tank that allows on-the-spot observation, the axes are assembled so that the displacement of the rotating centers is less than 50 μ m. The UHV diffractometer has two degrees of freedom (DOF) on the sample and two independent DOF on the detector. The diffractometer is about 3.2 m x 3.2 m x 2.3 m in dimension. This instrument is now in service in the SPring-8 (Super Photon ring-8 GeV) BL13XU in Japan.