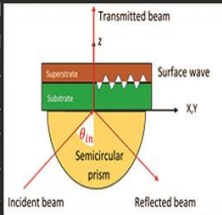


# About

This platform constructed upon popular optical configuration known as Kretschmann-Raether. It's mainly used for measuring the surface waves appeared at the interface of any sculptured bio-metallic engineered thin film



Two rotary plane with support of dynamic ball bearing model for reducing friction, and with air gap between their edges provide actual smooth rotation for light source tube and spectrometer devices holding by fixed stages. The stage holder of light source and spectrometer are adjustable in vertical direction (~ 1cm) for beam alignment

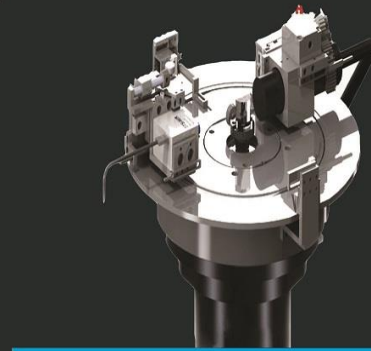
The chassis of physical part of platform is engineered to prohibit formation of any mechanical vibration caused by rotation of motors.



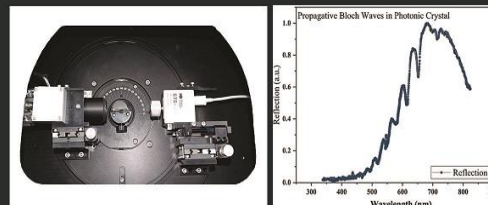
The input tube consists of Halogen Lamp and Glan-Taylor Polarizer to sweep between polarizations.



The recorder branch consists of mini spectrometer to cover all of visible region. It can be used to record multi wavelength fluorescence of any kind of samples



The main page of the software for controlling the angle sweeping of motors, analyzing the captured data from camera and spectrometer, save and transferring the analysis results.



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## NANO FILM AUTOMATED OPTICAL INSPECTION

It can be change very easily to other shapes of plasmon like as surface lattice resonance in gratings or other periodic devices.