

Service only

Combined surface analysis and STM



Thermo VG Scientific and [RHK Technology Inc.](#) have formed a partnership to provide a combined surface analysis instrument, combining a variable temperature [UHV Scanning Probe Microscope \(STM\)](#) with the VG MultiLab system.

The atomic resolution of the STM alongside the chemical specificity of the electron spectroscopies provides a comprehensive analysis of today's advanced materials.

Sample handling

The integrated sample handling using Thermo

VG Scientific's unique rotary transfer mechanism allows samples to be transferred between techniques without exposing them to the atmosphere.

From the UHV distribution chamber the samples can be taken directly to the surface analysis position, the STM stage or a sample preparation station. The instrument uses a common sample holder which can travel throughout the system. Replacement STM tips are transferred using the same transfer mechanisms either to the STM stage or to a tip storage facility, allowing tips to be stored under UHV conditions until required.