

# VT UHV SPM

# USM1400

This system is constructed with newly designed cryostat, consisted of liquid helium vessel and liquid nitrogen shield, placed under the SPM stage.

This system includes STM, AFM, SNOM functions, and is applicable for researches in wide variety of surface science, such as physics, chemistry, and biophysics.

## Features

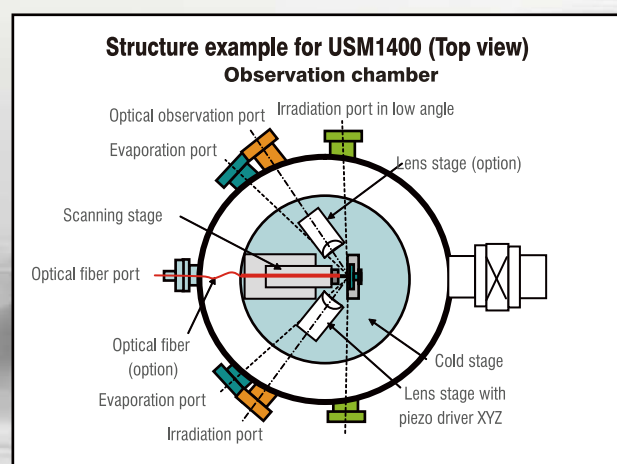
- Cryostat is located under the SPM stage to enable easy operation and wide variety of applications. Internal vibration isolation is included.
- Variable temperature operation down to 3K
- STM, AFM, SNOM functions
- In situ deposition of gases and organic molecules
- Optical fiber can be installed on the scanner, and exchangeable fiber probe is available on request
- Optional piezo driven lens stage can be installed at the sample position
- Optional 0.5T SC magnet coil can be installed at the same position.
- Extended functions related to AFM (MFM, EFM, KFM, etc.) are available on customers' request




USM1400S: Only includes STM function. Optical fiber option and piezo driven lens stage can be added.

USM1400SA: Includes STM and AFM functions. Options can be added.

USM1400SM, USM1400SAM: Includes SC magnet. Slide-in sample holder and probe holder.



*Instrumental components are subject to change without notice for improvement in performance*

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