

UHV Ultra Low Temperature SPM system

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.

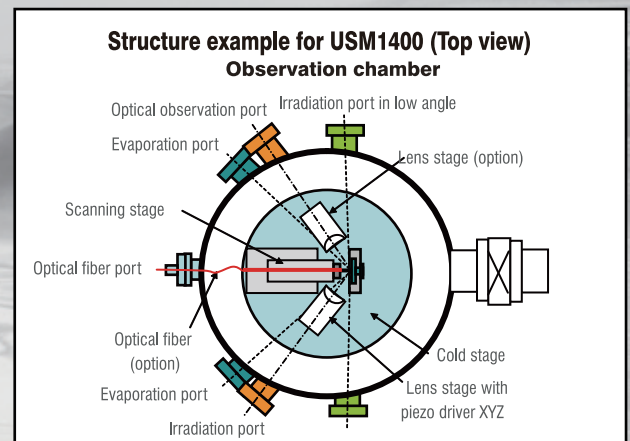


Features

- Cryostat is located under the SPM stage, it realize easy operation and wide variety of applications. Internal vibration isolation is included.
- Variable temperature operation down to 2.5K is possible.
- STM, AFM, SNOM functions are possible.
- In situ deposition of gases and organic molecules are possible.
- Optical fiber can be installed on the scanner, and exchangeable fiber probe is available on request (Option).
- Optional piezo driven lens stage can be installed for local emission measurement.
- Optional 0.5T SC magnet coil can be installed at the sample position.
- Extend functions related AFM (MFM, EFM, KFM, etc) are available on customer request (Option).

System line up

- **USM1400S** Include only STM function, optical fiber option and piezo driven lens stage can be included.
- **USM1400SA** Include STM, AFM functions and options can be included.
- **USM1400SM, USM1400SAM** Including SC magnet, Sample holder and probe holder are slide in type.



Instrumental components subject to change without prior notice for improvement in performance.