

# UHV Ultra Low Temperature STM system with Dilution Refrigerator **USM1600**

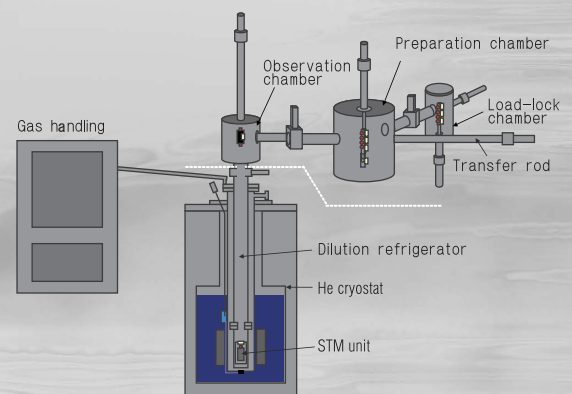
**High-End Model STM in Ultra Low Temperature and High Magnetic Field.  
Continuous cooling lower than 40mK(target 30mK).**



## *Application*

- High energy resolution IETS on single molecule
- Atom manipulation
- Spin Polarized STM
- Spin resonance STM on single atom and molecule
- High-resolution spectroscopy on super conductor

## USM1600 Structure



SPM unit	
Max scan size	800nm x 800nm x 100nm at 100mK (2.5 x 2.5 x 0.4um@RT)
Resolution	spatial; <0.01nm, energy; <1meV
Base temperature	40mK (Target 30mK)
Magnetic field	11T, 15T vertical or 9-2-2T Vector magnet