

**High Magnification Magnetic Domain Observation
Device
in ultra low temperature circumstances
Model BH-785OCS-TD**

Summary:

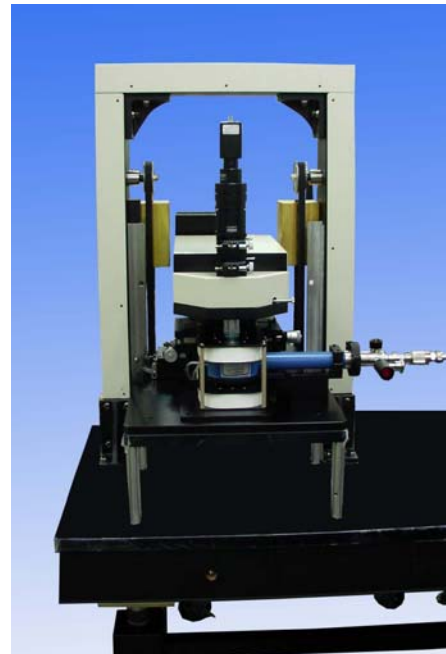
This is the device to observe magnetic domain on a surface of magnetic materials in ultra low temperature, and sophisticatedly constructed by magnetic domain microscope and sample cooling device. Magnetic domain microscope unit is designed to enable the observation both for Polar Kerr effect and for In-plane Kerr effect, by the selection mechanism of observation direction. In order to apply magnetic field for a sample outside the cooling unit, relative applying devices for Polar magnetic field and for In-plane magnetic field are separately prepared.

Observation Items:

- * In-plane Kerr effect and Polar Kerr effect magnetic domain
- * Magnetic domain in ultra low temperature (when Cryostat system is mounted)
- * Image processing file creation for observed magnetic domain

Construction:

- * Objective lens: X 20
- * Monitor: 17 inch
- * CCD camera: 800,000 pixel



Features:

- * In-plane and Polar magnetic field ($\pm 2000\text{Oe}$)
- * Magnetic field preciseness: $\pm 1\%$ in all area of $\pm 2000\text{Oe}$
- * Sample cooling unit by using liquid He as the refrigerant
- * Lowest measuring temperature 3.5K



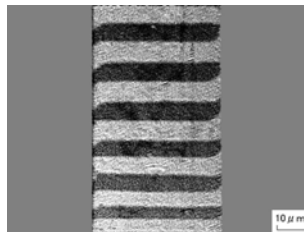
Personal Computer and Software for Image Processing

- * Exclusive use PC: CPU 2.4GHz, HDD 80GB, Memory 256MB
- * 17 inch LCD monitor
- * OS: Microsoft® Japanese language Windows98 or equivalent
- * Indication of CCD camera captured image in 1000 times (XGA standard image) magnification by processing of image input board

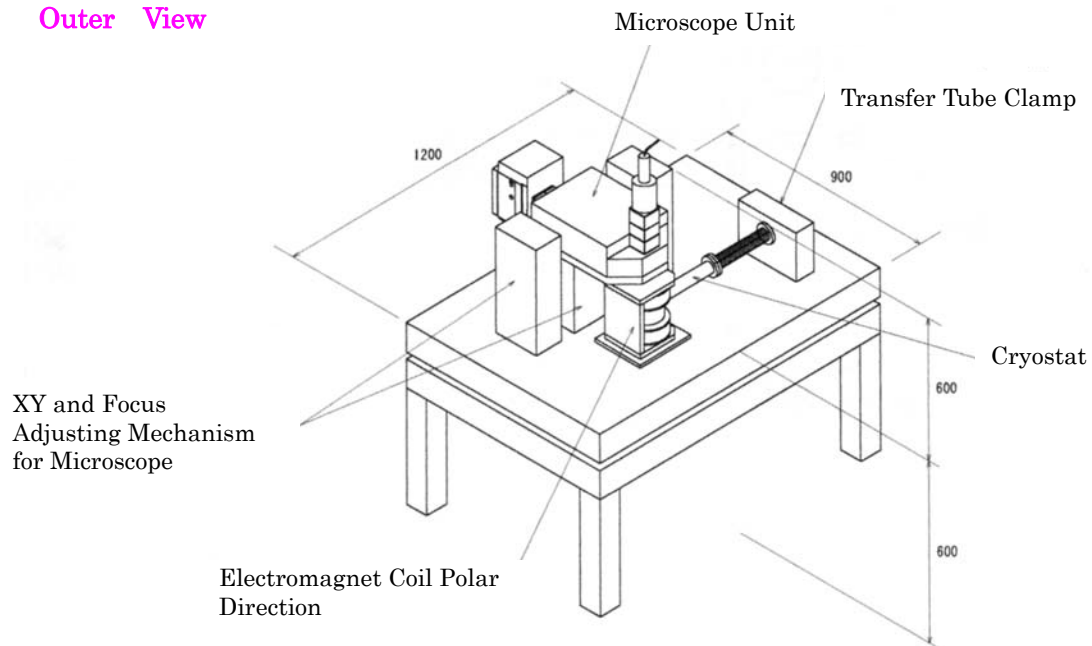
Sample of Captured Images

* By the courtesy of Arai Lab. of Tohoku University

NEOARK sample



Outer View



Remarks:

Specification and outer view may be changed without any previous notice.



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