

## BL12B2 NSRRC BM

BL12B2 has been maintained to serve for material science and biological structure users since 2000. The beamline is equipped with collimating mirror (CM), double crystal monochromator (DCM), focusing mirror (FM). The measured spot size of the beam is about  $250\ \mu\text{m}$  square at protein end station and total flux about  $1.5 \times 10^{11}$  at 12 keV. There are four end stations, EXAFS, x-ray diffraction (XRD), x-ray scattering, and protein crystallography (PX) end stations, inside the experimental hutch of BL12B2. The beamtime was shared between material science and protein crystallography users with equal amount. Most of the B2 users during 2010 were from Taiwan. User support of the beamline has been provided by two beamline scientist and one engineer.

EXAFS, x-ray diffraction, x-ray scattering end stations are serving for material science users. The experiments are covering wide variety of material science topics, such as strongly correlated system, nano science, system under extreme conditions (high pressure), etc..

The commissioning of protein crystallography (PX) sample auto changer system has been completed and started user operation from this year. The remote access capability of this system will operate in 2011.

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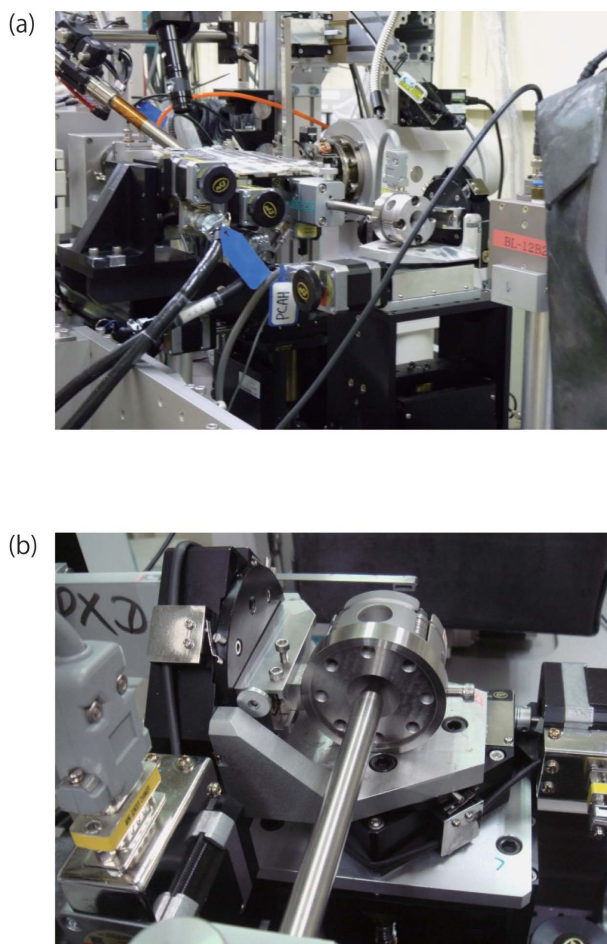


Fig.1 Current High pressure XRD set up at PX table. (a) over view (b) sample position.