

Ruby High Pressure Calibration System

The system is designed to measure the pressure of the diamond anvil cell. Ruby fluorescence deflection method is widely used in the pressure measurement for the diamond anvil cell as it is a simple and fast method with high precision. The principle is that the red shift will occur when the R1 line of ruby (normal pressure is 694.3 nm) is under a high pressure (the relative displacement will also occur between R1 and R2), thus it can be used for calibrating pressure in the diamond anvil cell experiments. The pressure of the diamond anvil cell can be determined by monitoring the ruby fluorescence spectrum. The advantage of calibrating pressure via ruby fluorescence is its hard peak intensity, besides, it is easy to measure with less minerals and the pressure measured can reach several million atmospheres.

Specification:

Laser wavelength: 532nm

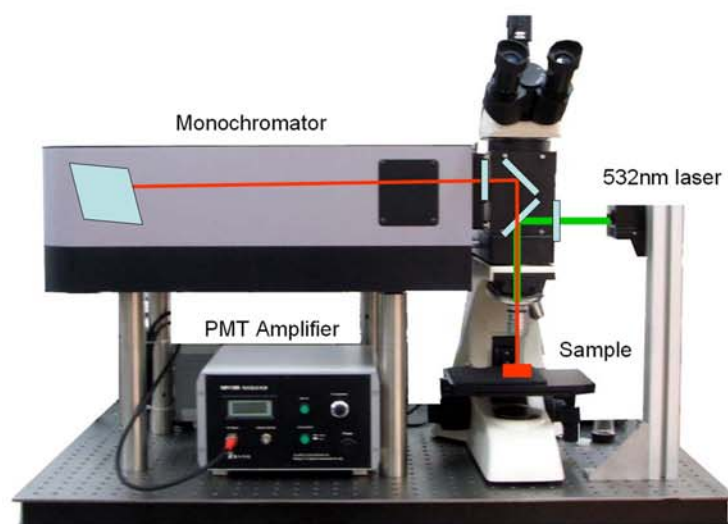
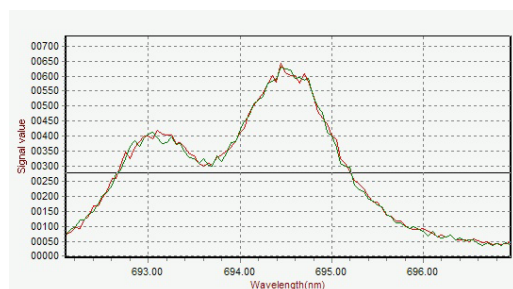
Laser output power: CW 500mW

Monochromator resolution: 0.05nm

Video CCD: Watec 902h2, 1/2inch

Object lens: Nikon, 20x, WD 24mm

PMT Amplifier: 1500V



Beijing DEDO Tech Co., Ltd.

www.dedongtech.com

Address: Room 0088, Yuntonghang Building, Tianchun, Beijing, P.R.China

Tel: +86-10-88182506 Fax: +86-10-88122344

E-mail: sales@dedongtech.com