

## Diamond Anvil Cells (DACs) are powerful tools for high pressure research



## **Ruby Spectra Software**



Product Code: RLW-001

The owner software dedicated to researchers useful to determine pressure value inside a dac sample room. Combined with our spectroscopy system Ruby Spectra Software 150 is our best solution to analyze pressure using ruby fluorescence peacks. It enables calibration, graphic fitting and analysis of the pressure inside cell. The measurement is performed through different calibrations of the R1 line shift, established in different ways depending upon pressure conditions and ranges. The fitting procedure allows you to fit the fluorescence ruby line R1 and R2 using two Lorentzian profiles. Once optimized (maximized) the intensity of the fluorescence signal using the "Align" procedure you my record the rough position of the two lines and then as input parameters for the fitting procedure.

## **TECHNICAL DATA**

CALIBRATION	Neon lamp
FITTING	Ruby crystal R1-R2
EXCITATION	532 nm green laser
SPECTROMETER	Owner
OPTICAL FIBER	50 Microns

## HIGHLIGHT

- Easy to use and calibrate
- Value of pressure directly