

Almax·easyLab
science under pressure

Products



Optiprexx PLS

Optiprexx PLS

Advanced photoluminescence system aimed at ultra-high pressure ruby manometry.

- The Optiprexx PLS is a turnkey system that performs ruby photo -luminescence measurements enabling the determination of the in-situ pressure in diamond anvil cells;
- The system can provide an accuracy of +- 0.1 GPa or better on ruby fluorescence pressure determination;
- Included in the Optiprexx PLS are the laser, transfer optics, spectrometer, optical observation (microscope) and xyz positioning stages and data acquisition software (High Pressure Manager);
- High Pressure Manager (HPM): A Labview®-based program designed by Almax-easyLab with real time pressure determination;
- The Optiprexx PLS is easy to use and has a very small footprint. An optional CMOS camera is available.

RELATED PRODUCTS:

- Boehler µDriller
- Optiprexx Ruby Lux
- Diacell® Diamond Anvil Cells (DACs)
- Diacell® iGM/GM Controller

RELATED ACCESSORIES:

- Ruby Powder
- Optiprexx PLS - Camera
- Optiprexx PLS - Variable V Block for DACs

Technical Specifications:

Laser Wavelength	532 nm (green) or 450 nm (blue)
Laser Power (Nominal)	50 mW (green) or 40mW (blue)
Laser Focusing Objective WD	22mm as standard
Spectrometer	Ocean Optics HR4000
Software	Windows compatible (64 bit)
Observing Eyepiece / Lighting	X20 magnification / Internal LED
Options	Laser Safety Interlock
	CCD Camera (USB)

Specifications subject to change without prior notice.
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Ref: ML13_46 Rev 3