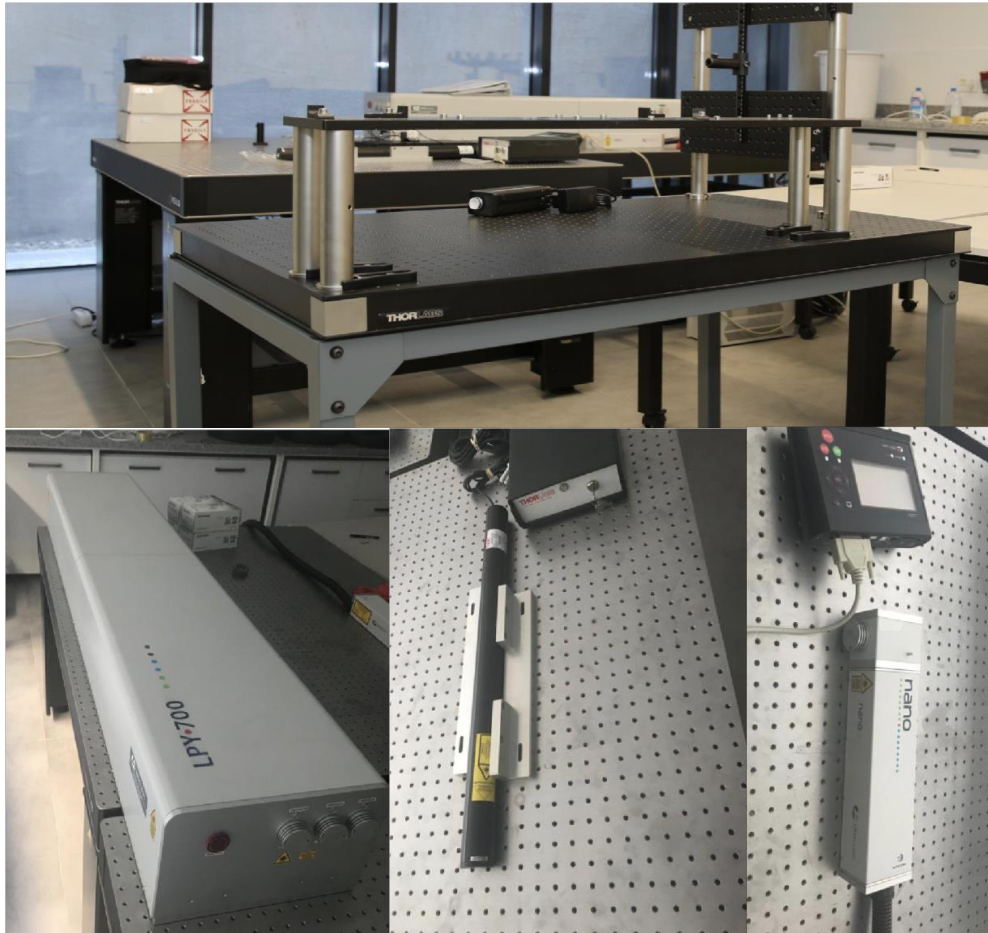


HIGH POWER LASER SYSTEM



Intended Use of the Instrument: Laser Applications

Instrument Brand/Model: Litron Aurora 2 Integra 45 Integrated OPO Laser System

AGU CRF Thematic Laboratory: Laser Systems Laboratory

Location of the Instrument: AGU-CRF LAB13C

Academic Director(s) of the Instrument :

Asst. Prof. Talha ERDEM - erdem.talha@agu.edu.tr

The Litron LPY 700 is a high-power nanosecond pulsed laser operating at the wavelengths of 355, 532, and 1054 nm. This system can be employed for the nanoparticle fabrication, lifetime measurements, and development of optically-pumped laser systems. Furthermore, this equipment has the optical parametric oscillator (OPO) unit that allows for tuning the lasing wavelength between 355 nm and 1054 nm.

The Litron Nano system also produces nanosecond pulsed laser light at the wavelengths of 355, 532, and 1054 nm similar to LPY 700 while the optical energy of the produced laser beam is lower. This equipment also does not possess any OPO unit. The Litron Nano system is suitable for optical interference, holography, and optically-pumped laser applications.

Thorlabs HNL150R is a He:Ne laser producing laser light at 633 nm. This laser produces a continuous laser light with a stable optical power output. This laser is suitable for optical interference and holography applications.