



The BR Labs Frequency Doubler is a stand-alone device which generates UV or visible continuous laser light by second harmonic conversion of visible and infrared lasers.

Call us to discuss individual applications involving other nonlinear processes such as frequency mixing and optical parametric oscillation.

Applications:

Two photon spectroscopy, atom optics, laser cooling & trapping, metrology (frequency, acceleration, rotation, fundamental constants), spectroscopy (atoms, molecules, quantum dots, trace gases), interferometry and holography, optical pumping and Rydberg excitation, LIDAR seeding, laser magnetic field measurement, Bose-Einstein condensation & degenerate Fermi gases, biophotonics, photobiology.

Specifications:

Fundamental wavelenght	user specified (400 - 1600 nm)
Recommended crystal type	LBO, BBO, PPLN
SHG efficiency	Dependent on fudamental power (>10%)
Mode-matching	Telescopic lenses
Dimension	293 x 393 x 120 mm
Scanning	Long excursion piezo (17 microns) allows long frequency scans of the fundamental laser sources