

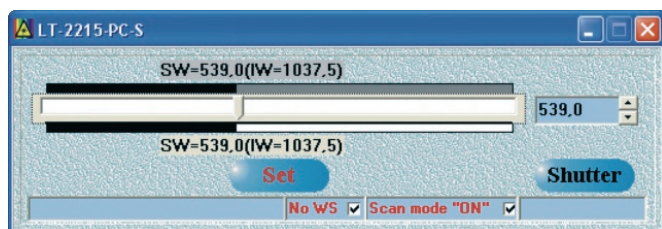
LT-2215-PC

Automated Tunable Converter



LOTIS TII LT-2215-PC laser provides automated tuning controlled by a personal computer.

The communication with a computer is carried out by means of USB 2.0 (USB 1.1 compatible) data interface. The control software is designed for Microsoft® Windows 98/Me/Windows NT®/2000/XP.



Window of LT-2215-PC control software.

Specification

Parameter	Value
Tuning range $\Delta\lambda$, nm	420–2300
Typical linewidth $\delta\lambda$, nm	$\leq 0.15^*$
Beam divergence, mrad	4–8**
Phasematching	Type II
Pump radiation conversion efficiency at SW+IW at maximum of tuning curve (at 10 Hz), %	$\leq 30^{***}$ $\leq 20^{***}$
Pulse duration (FWHM), ns	1–2 ns shorter than pump pulse duration**
Pulse repetition rate, Hz	≤ 50
Polarization at SW and IW	SW — Linear horizontal, IW — Linear vertical
Port	USB 2.0
Size L x W x H, mm (Weight, kg)	Tunable laser 410 x 216 x 92 (8.5) Control unit 256 x 257 x 111 (3.5)

Pump Laser

Wavelength, nm	355
Pulse duration, ns	10–20
Pulse energy, mJ	60–150
Repetition rate, Hz	≤ 50
Beam diameter, mm	≤ 8
Beam shape	uniform without hot spots
Polarization	vertical

* at the 500 nm, depending on pump laser

** determined by the pump pulse duration and generated λ

*** typically for pump energy > 70 mJ

