

LT-2214-PC Automated Tunable Converter



LOTIS TII LT-2214-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.

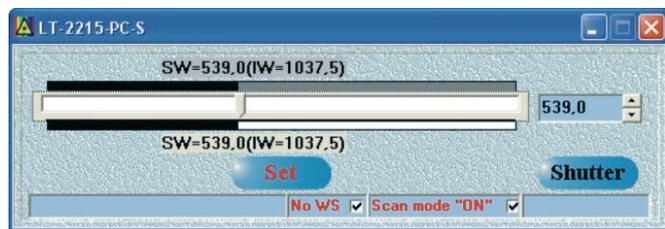
Specification

Parameter		Value
Tuning range $\Delta\lambda$, nm	at signal wave (SW) at idler wave (IW)	410–690 715–2300
Typical linewidth $\delta\lambda$, nm		$\leq 0.5^*$
Beam divergence, mrad		4–8**
Phasematching		Type I
Pump radiation conversion efficiency at maximum of tuning curve (at 10 Hz), %	at SW+IW at SW	$\leq 40^{***}$ $\leq 30^{***}$
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 horizontal
Port		USB 2.0
Size L x W x H, mm (Weight, kg)	Tunable laser Control unit	410 x 216 x 92 (8.5) 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



Window of LT-2214-PC (LT-2214-PC) control software.

