

## LaserTune宽范围可调谐中红外激光器

### 特点：

- 业内领先的无间隙连续可调谐范围  
 $\lambda \approx 5.4 - 12.8 \mu\text{m}$  ( $\Delta\nu > 1050 \text{ cm}^{-1}$ )  
最多可配置4个内部激光器模块
- 快速调谐 (稳定时间 < 15 ms)
- 优异的光束指向稳定性
- 单一封装完全集成方案
- 灵活的用户友好界面 (无线选项)
- OEM及手持式应用的理想选择

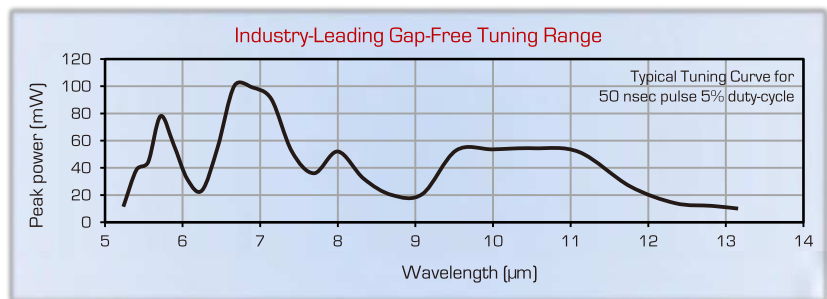


### 内部模式:

- 人工控制
- 编程步进调谐
- 编程扫频调谐
- 任意步进调谐

### 设置:

- 脉冲参数：脉宽、重频、电流
- 热控制
- 触发可选：内部触发与外部触发、外部脉冲



技术参数	
Gap-Free Tuning Range	$\lambda \approx 5.4 - 12.8 \mu\text{m}$ ( $\Delta\nu > 1050 \text{ cm}^{-1}$ ) (system can be configured with up to 4 tuners)
Spectral Linewidth	< $2 \text{ cm}^{-1}$ (typical)
Spectral Accuracy / Repeatability	< $2 \text{ cm}^{-1}$ / < $0.5 \text{ cm}^{-1}$ (typical) *
Maximum Peak Power	150 mW (typical for 4 tuners, see tuning curve)
Average Power	0.5-10 mW typical at 5% duty-cycle
Power Stability	< 10% pulse-to-pulse (typical)
Pulse Width	30 – 300 nsec ◦ continuously variable with External Pulse Control ◦ 10-ns-resolution with Int.& Ext.Triggering
Pulse Repetition Frequency	up to 3 MHz
Maximum Duty Cycle(DC)	2.5 – 15% (depending on operating conditions)
Beam Quality	Single spatial mode
Beam Diameter	2 x 4 mm, collimated output
Beam Divergence	< 5 mrad
Pointing Stability	< 1 mrad 99% of $1150 \text{ cm}^{-1}$
Polarization	Vertically polarized, 100:1 extinction
Tuning Modes	Move Tune – manual control ; Step Tune – programmable sequences ; Sweep Tune – programmable linear sweeps
Step Tune Speed	$100 \text{ cm}^{-1}$ step in < 15 msec
Sweep Tune Speed	Linear sweep > $15 \text{ cm}^{-1}/\text{msec}$
Computer Control	Ethernet ; HTML/SOAP interface
Synchronous Pulse Control	Trigger input – with Sync-Out and adjustable offset Trigger output – for laser pulse & wavelength tune Digital input for pulse control – directly controls rising & falling edges **
Dimensions	Approx. $6.25 \times 5 \times 4.9$ inches → Volume = 2.6 liters
Weight	2 kg (4.5 lbs)
Cooling Options	Active cooling via fans
Temperature Range(Operating / Storage)	10 to 30 °C / -10 to 70 °C
Electrical Power	100 – 240 Volts (50/60 Hz) 2.5 Amp