

# Dual-wavelength ps-fiber laser for coherent raman imaging 用于相干拉曼成像的双波长 ps 光纤激光器



- **turn-key, compact, air-cooled, fully software-controlled**  
一站式、紧凑、风冷、全软件控制
- **fiber-coupled synchronized emission of picosecond pulses**  
皮秒脉冲的光纤耦合同步发射
- **addressable resonances from  $0\text{cm}^{-1}$  to  $5000\text{cm}^{-1}$**   
从  $0\text{cm}^{-1}$  to  $5000\text{cm}^{-1}$  的可寻址共振
- **Tuning speed of few seconds**  
几秒的调谐速度

200  $\mu\text{m}$



**WINWINTec**  
INTERNATIONAL GROUP

# Specs range 规格范围

Tuning range (wavenumbers) 调谐范围 (波数)	0 cm <sup>-1</sup> ... 5000 cm <sup>-1</sup>
Output wavelength range 输出波长范围	Typically between 600nm and 1100nm 通常在 600nm 到 1100nm 之间
Spectral width 光谱宽度	As narrow as < 10cm <sup>-1</sup> 窄至 < 10cm <sup>-1</sup>
Tuning speed 调速	As fast as <1s (full-range) 最快 < 1s (全范围)
Repetition rate wavelength 重复频率波长	Flexible, tunable configurations single shot ... 30MHz 灵活、可调的配置 单次... 30MHz
Pulse duration 脉冲持续时间	As short as < 10ps 短至 < 10ps
Average power 平均功率	As high as 1000mW 高达 1000mW
Peak power 峰值功率	As high as > 500W for all outputs 所有输出都高达 > 500W
Polarization 偏振	Linear 线性
Beam quality 光束质量	Fiber coupled or free space output M2<1.2 光纤耦合或自由空间输出 M2<1.2
Spatial overlap 空间重叠	Overlapped or independent outputs possible 可重叠或独立输出
Temporal overlap 时间重叠	Passively overlapped or actively adjustable to compensate dispersion effects in attached microscope 被动重叠或主动可调以补偿附加显微镜中的色散效应
SRS extension SRS 扩展	Available as options RIN < -145dBc/Hz on output ½ 可作为选项 RIN < -145dBc/Hz 输出 ½
Power tunability 功率可调	Outputs can be tuned independently from 0 to full power while maintaining pulse duration and bandwidth 输出可以从 0 到全功率独立调谐, 同时保持脉冲持续时间和带宽
Warm-up time after system start 系统启动后的预热时间	< 1min. < 1 分钟
Control interface 控制界面	Software, RS232, USB, customizable 软件, RS232, USB, 可定制
Dimensions (W* D * H) 尺寸 (宽度* 深度*高度)	As small as 200mm x 200m (customizable, depending on configuration) 小至 200mm x 200m (可定制, 取决于配置)
Mass 质量.	As light as 10kg (customizable, depending on configuration) 轻至 10kg (可定制, 取决于配置)
Power consumption/ Cooling 功耗/冷却	< 100W (24V power supply) / Air-cooled < 100W (24V电源) /风冷

