

小型半导体/固体激光器---单纵模激光器

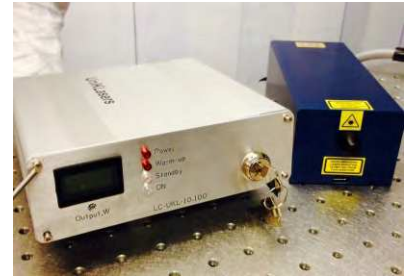
266-1064 nm单纵模激光器

特点：

- 波长200 nm到2000 nm，功率10 mW到3 W
- 单纵模、长相干长度
- 无跳模、无失锁
- 高斯光束
- 优异的光束质量
- 结构紧凑、超低功耗
- 低噪音

应用：

- 生命科学设备
- 半导体晶片计量
- 全息成像
- 粒子诱捕
- 风力发电系统
- 航电技术



技术参数

Output Beam Parameters:	Units						
Wavelength	nm	266 ± 0.1	319 ± 0.1	349 ± 0.1	355 ± 0.1	442 ± 0.2	515 ± 0.3
Output Power (fixed values within range)	mW	10 - 200		10 - 150	10 - 100		
Power Control (optional)	—	Externally via manual power adjuster (MPA)					
Beam Spatial Mode	—	TEM ₀₀					
Beam Diameter at output aperture*	mm	0.8	0.8/1.2		1.0±0.2		
Beam Divergence	mrاد	<0.5	<1				
Beam Pointing Stability	μrad/°C	≤5					
Longitudinal Mode Structure	—	SLM					
Line Width	MHz	<1	<0.5				
Line Spectral Position Stability (±5 °C, 4 hours)	pm	±0.65	±0.8			±1.1	±1.2
Mode Hops Free Fine Tuning Range (optional)	GHz	40 - 50					30 - 50(TBD)
Coherence Length	m	> 100					
Polarisation	—	Linear, Vertical; ≥200:1		Linear, Vertical; ≥100:1			
Output Power Noise (10Hz – 10MHz)	%	≤ 0.1rms, ≤ 1p-p		≤ 0.5rms, ≤ 1.5p-p	≤ 0.1rms, ≤ 1p-p		
Output Power Stability (4 hours, ±5 °C)	%	≤2		≤±2	≤2		
Environmental:							
Working Temperatures	°C	15 – 35, conductive cooling via mounting interface					
Humidity	%	5 -95, non-condensing					
Dimensions and Electrical:							
Supply Voltage	DC	19					
Power Consumption (at 25 °C)	W	<90	<60				<90

* there is a noticeable ellipticity of the output beam due to principal walk-off between SH and fundamental beams inside the nonlinear crystal

Output Beam Parameters:	Units					
Wavelength	nm	532 ± 0.1	523 ± 0.2	639.7 ± 0.2	698.2 ± 0.2	1064.1 ± 0.2
Output Power (fixed values within range)	mW	50-150 300-2000	50-1000	500 1500	10-300	50 - 200 500-3000
Power Control (optional)	—	Externally via manual power adjuster (MPA)				
Beam Spatial Mode	—	TEM ₀₀				
Beam Diameter at output aperture	mm	0.8±0.2 1.0±0.2	0.8±0.1	0.8±0.1 1.0±0.2	0.8±0.1	0.8±0.1 1.0±0.2
Beam Divergence	mrاد	<1				
Beam Pointing Stability	μrad/°C	≤5				
Longitudinal Mode Structure	—	SLM				
Line Width	MHz	<0.5				
Line Spectral Position Stability (±5 °C, 4 hours)	pm	±1.25	±1.3	±1.6	±1.7	±2.5
Mode Hops Free Fine Tuning Range (optional)	GHz	30 - 50(TBD)	25 - 30	25 - 30	25 - 30	25 - 30
Coherence Length	m	> 100				
Polarisation	—	Linear, Vertical; ≥100:1				
Output Power Noise (10Hz – 10MHz)	%	≤ 0.1rms, ≤ 1p-p				
Output Power Stability (4 hours, ±5 °C)	%	≤2				
Environmental:						
Working Temperatures	°C	15 – 35, conductive cooling via mounting interface				
Humidity	%	5 -95, non-condensing				
Dimensions and Electrical:						
Supply Voltage	DC	19				
Power Consumption (at 25 °C)	W	<20 <90	<60	<20 <90	<60	<20 <90