

## Nd:YAG passively q-switched DPSS lasers

### WAVEGUARD-D



#### 特点:

坚固紧凑的设计 内部和外部 TLL  
触发 带 USB 或 RS232 接口的激光  
控制器  
提供 OEM 版本  
可调重复频率

#### 应用:

材料加工和微匹配  
LIBS (激光诱导击穿光谱)  
打标  
激光雷达和激光测距  
生物光子学

## 激光参数:

波长	1064 nm <sup>1</sup>				
波长精度	± 1 nm				
重复频率	1 Hz – 1 kHz				
脉冲能量	>135 μJ @1Hz	>130 μJ @10Hz	>125 μJ @100Hz	>120 μJ @500Hz	>120 μJ @1kHz
平均输出功率	0,135 mW	1,3 mW	12,5 mW	60 mW	120 mW
能量稳定性 (3 小时), @1 kHz	<1 %				
脉冲宽度	< 1 ns				
偏振对比度	>100:1				
出射窗光束直径	<1 mm				
光束质量	M <sup>2</sup> <1.5				
光束发散角	<5 mRad				
激光模式	TEM <sub>00</sub>				

<sup>1</sup>可根据要求提供 532 nm、355 nm 或 266 nm 波长的附加谐波模块

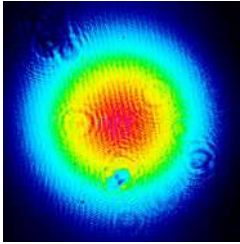
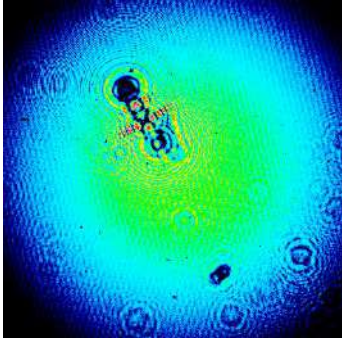
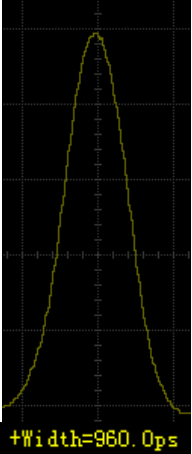
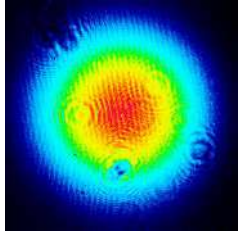
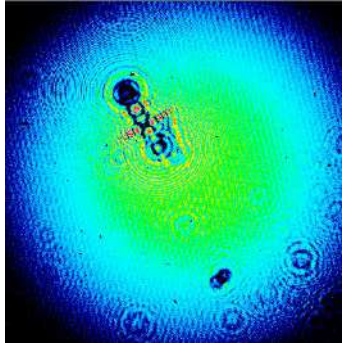
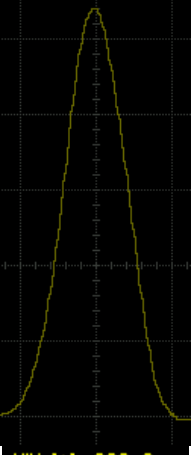
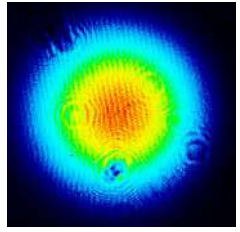
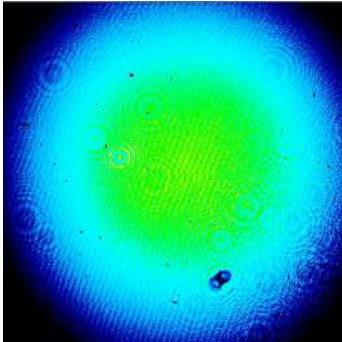
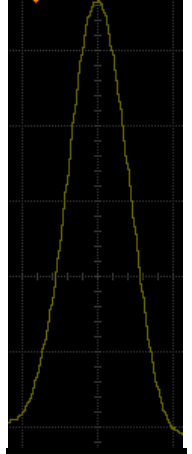
## 物理尺寸:

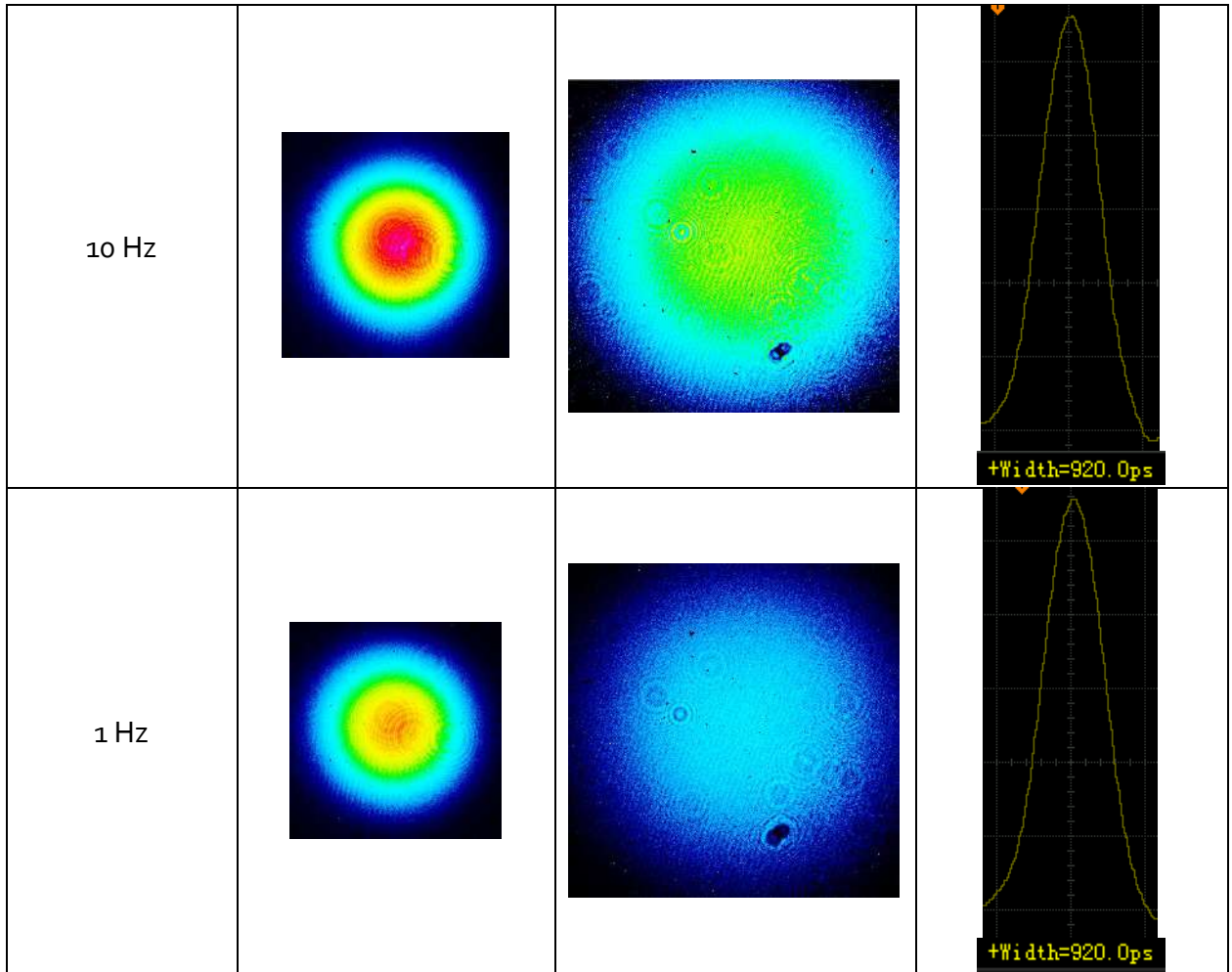
激光模组尺寸	170 x 103 x 64 mm
激光驱动器尺寸	164 x 105 x 44 mm

## 使用要求:

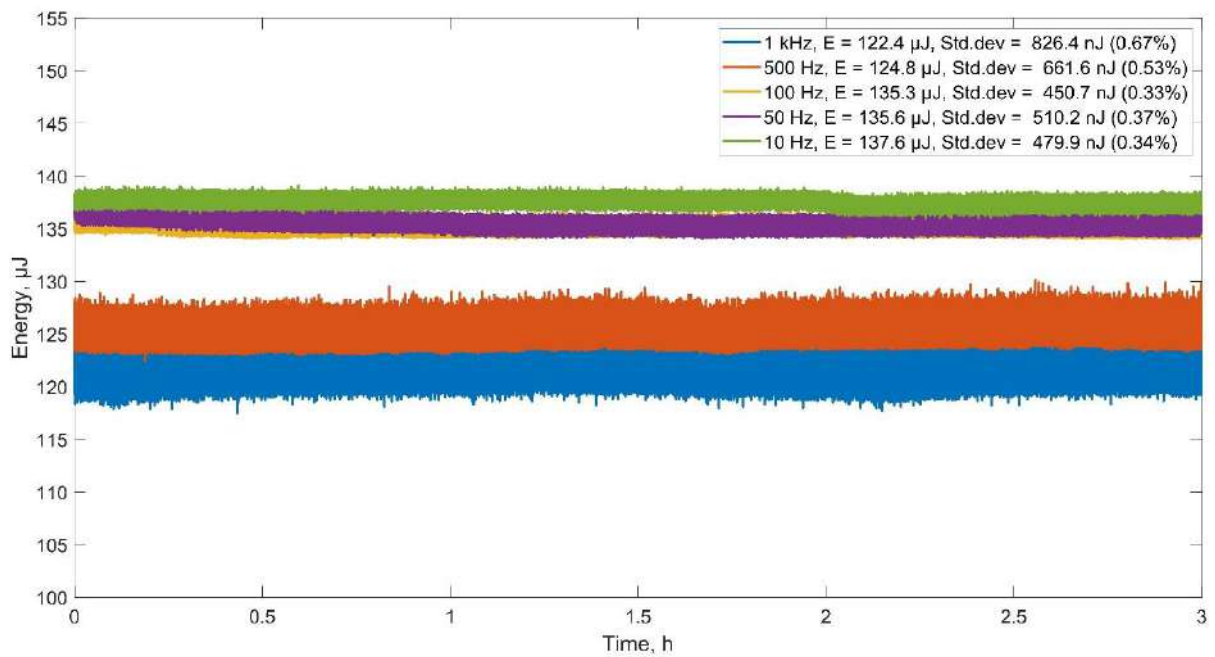
泵浦电流	8 A
电参数	100-240 V AC, 50/60 Hz, 1.4 A
工作温度	20 – 28 °C
制冷	TEC element + air cooling

激光束轮廓和激光脉冲持续时间数据：

重复频率	近场（距激光器 15 厘米）光束轮廓	远场（距激光器 50 厘米）光束轮廓	脉宽
1 kHz			
500 Hz			
100 Hz			



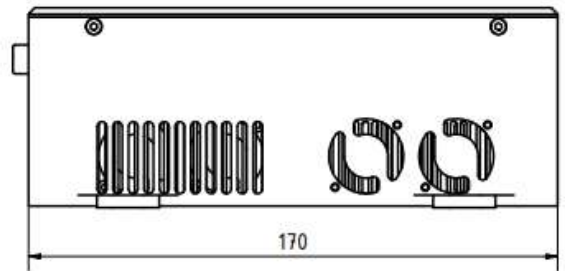
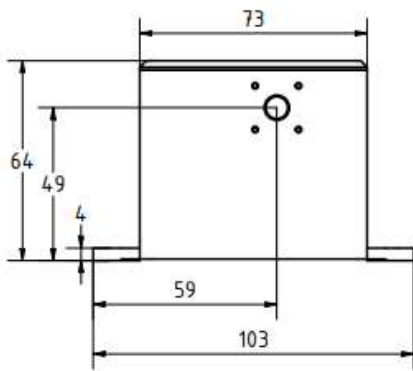
输出能量稳定性:

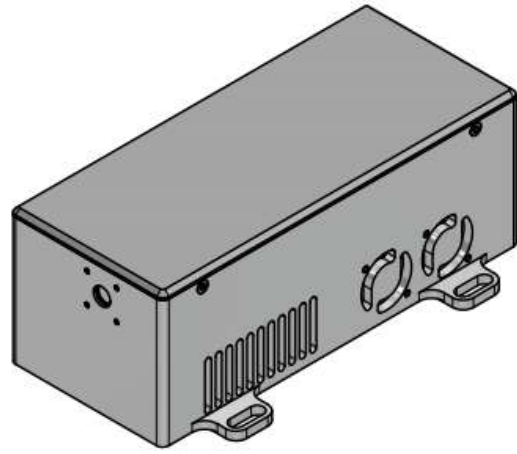
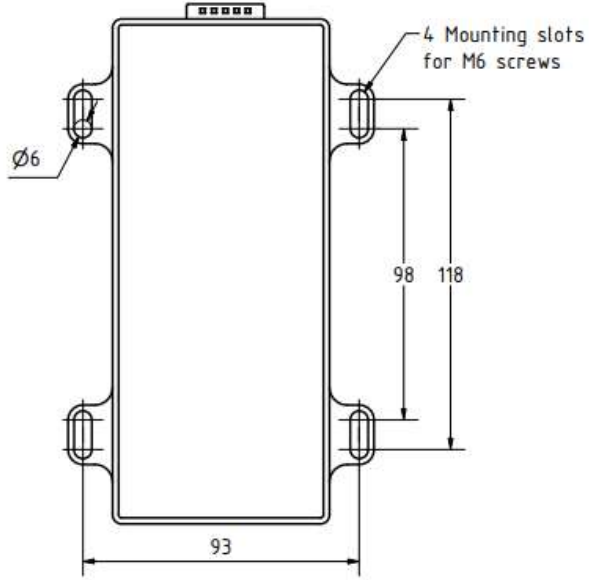


运行激光的必要组件：



激光头几何图：





激光安全等级:

