

TABOR-D Series

High frequency dual cavity PIV laser



FEATURES:

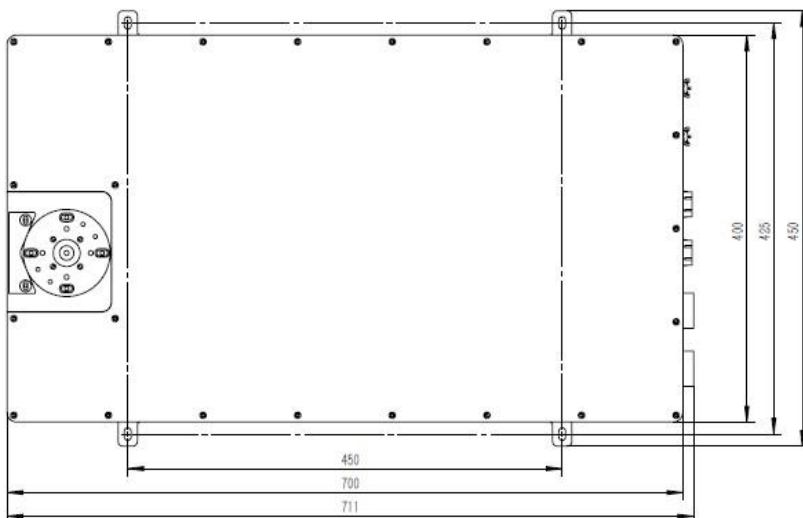
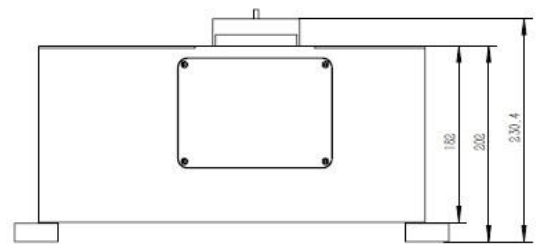
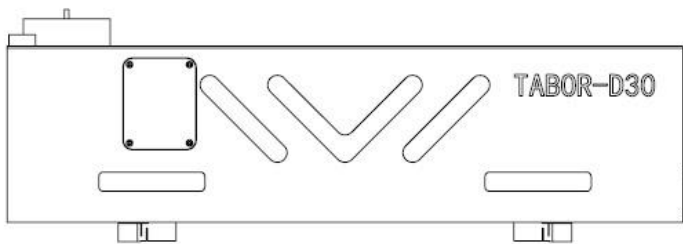
- 20-50mJ@527nm@1kHz
- Repetition rate 1Hz-10kHz
- Dual cavity design for PIV measurement
- LD lifetime > 10,000 hours
- The compact and reliable structure of two independent resonators ensures the long-term thermal and mechanical stability

Applications:

- PIV

TABOR-D series diode pumped solid-state YLF laser is specially used for high-frequency time-resolved PIV (TR-PIV) measurement. It has high structural stability and is suitable for outdoor high and low temperature environment. After long-distance transportation, there is no need to adjust the beam combination. It has strong compatibility and can be compatible with various brands of PIV systems.

Mechanical specifications Unit:mm



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Beam parameter

Version	TABOR-D20	TABOR-D30	TABOR-D50
Repetition rate ¹ (Hz)	1Hz-10kHz		
Wavelength(nm)	527nm		
Max Average Power@4kHz	30	45	75
Pulse energy(mJ)@1kHz	20	30	50
Pulse width ² @1kHz	100-170ns		
Energy stability (RMS)	< 1%		
Polarization ratio	> 100:1		
Beam Circularity (%)	> 85%		
Beam Divergence ³ (mrad)	< 8mrad		
Beam Pointing Stability ⁴ (μrad/°C)	< 20μrad		
Beam Diameter (mm)	~5mm±10%		
Beam Spatial Profile(M ²)	12-16		

General characteristics

AC Input	220 VAC ±10% 50-60Hz		
Power consumption	< 1.6kW(50W@1kHz)		
Operation conditions	Temperature 5-35°C Humidity < 80%		
Warm up time	< 10 mins		

备注:

1. All specifications at 1kHz repetition rate unless otherwise noted.
2. Full width at half maximum.
3. Full angle for 86.5% of energy.
4. Represents RMS value deviation from beam mean centroid.

China

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