

CLT-CLPNT

Dual Channel CW/Pulsed Tunable Cr:ZnSe/S Laser



Applications

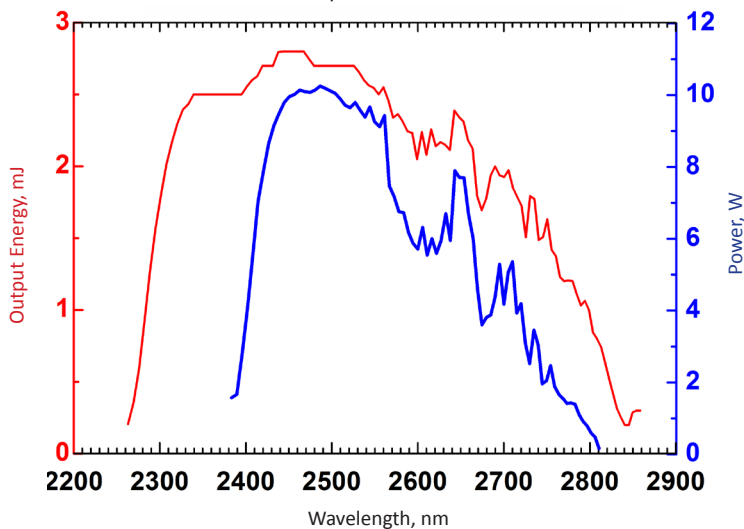
- ▶ Medical Applications
- ▶ Industrial Process Control
- ▶ Environmental Monitoring
- ▶ Materials Processing



Features

- ▶ Tunability 2300-2800 nm
- ▶ CW Channel Output > 10 W
- ▶ GS Channel Output Energy up to 3 mJ
- ▶ Pulse Duration 5-15 ns
- ▶ Repetition Rate 0.1-1 kHz

Tuning Curves of Dual Channel
Pulsed / CW Cr:ZnSe Laser



IPG Photonics offers a tunable dual channel Cr:Zn/Se/S laser system. This laser system provides independent continuous wave and nanosecond pulsed outputs from two different ports, over 10 W CW and 3 W pulsed. The typical pulse duration of the gain-switched pulsed channel is 5 ns. The laser is pumped by IPG Photonics' efficient and reliable thulium fiber laser. This laser is used in research and development testing for medical, materials processing and other applications.

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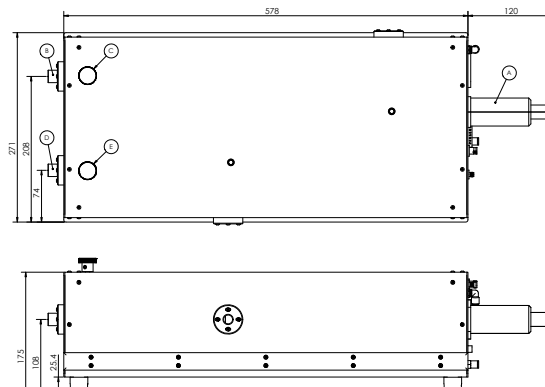
Dual Channel CW/Pulsed Tunable Cr:ZnSe/S Laser

Optical Characteristics	CLT-2500-10	CLPNT-2500-3
Mode of Operation	CW	Gain-switched
Wavelength Range, nm	2400 - 2750	2300 - 2800
Spectral Linewidth, nm	< 5	1.5
Maximum Average Power, W	10	3
Pulse Energy, mJ	N/A	1 - 3
Pulse Duration, ns	N/A	5 - 15
Repetition Rate, kHz	N/A	0.1 - 1.0
Polarization	Linear, Horizontal	
Output Beam Mode	TEM ₀₀	
Beam Diameter (FW, 1/e ²), mm	< 6	< 2
Warm up Time, min	15 from standby, 60 from cold start	

General Characteristics

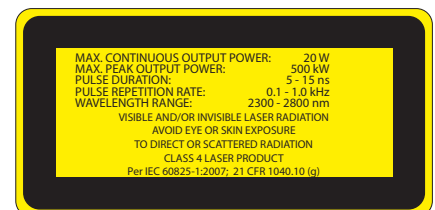
Pump Laser*	IPG Photonics Thulium CW Fiber Laser
Pump Laser Dimensions (WxDxH), mm	448 x 403 x 132 or 448 x 504 x 177
Optical Head Dimensions (WxDxH), mm	271 x 578 x 150
Supply Voltage 50-60 Hz, VAC	110 - 240
Power Consumption, W	< 200

* Pump laser model depends on output characteristics.



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