

# TLR-200

## Thulium CW Fiber Laser

200 W at 1.94  $\mu\text{m}$



### FEATURES

- ▶ Compact Size
- ▶ High Wall-plug Efficiency
- ▶ Beam Quality  $M^2 < 1.1$
- ▶ Wide Selection of Wavelengths
- ▶ Advantage over  $\text{CO}_2$  and Ho:YAG
- ▶ Cost-effective, Compact OEM Solution



### APPLICATIONS

- ▶ Medical Treatment
- ▶ Medical Surgery
- ▶ Other Non-metal Materials Processing
- ▶ Plastic Materials Processing
- ▶ Solid State IR Laser Pumping
- ▶ Pollution Control



Thulium Fiber Laser Systems are developed specifically to meet the growing demands of the industrial, medical and R&D markets for high power, compact, efficient, wavelength-selectable, single-mode CW sources of the spectral range of 1880 to 2050 nm. First manufactured in 1999, these laser systems have been field tested and deployed in a variety of R&D and medical applications. Now with higher powers and new options, the TLR Series provides the ideal solution for both laboratory, medical and industrial market segments.

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## Thulium CW Fiber Laser

### Optical Characteristics

Central Wavelength Range*, nm	1900-2000, typ. 1940
Linewidth FWHM, nm	<1
Mode of Operation	CW/Modulated
Modulation Frequency, kHz	up to 1
Average Power, W	200
Power Tunability, %	10-100
Power Stability**, %	±1
Optical Noise***, % RMS	1
Beam Quality, M <sup>2</sup>	<1.1

\* Custom central wavelengths are available upon request

\*\* Over 4 hours, T=const

\*\*\* 10 kHz - 20 MHz

### General Characteristics

Dimensions (W × D × H), mm	448 × 580 × 133
Cooling	Water-cooled
Supply Voltage, VAC	200-240, 50-60 Hz
Power Consumption, W	<1800



+1 (508) 373-1100;  
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[www.ipgphotonics.com](http://www.ipgphotonics.com)

MAX. AVERAGE OUTPUT POWER: 400 W  
WAVELENGTH RANGE: 1,800-2,200 nm

⚠ DANGER - INVISIBLE LASER  
RADIATION AVOID EYE OR SKIN  
EXPOSURE TO DIRECT OR  
SCATTERED RADIATION  
CLASS 4 LASER PRODUCT

IEC 60825-1:2014

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