



# TLR-200

## Thulium CW Fiber Laser

NEW PRODUCT



### Applications

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

### Features

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

IPG Photonics' 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.

# TLR-200

## 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

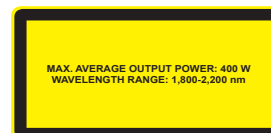
### General Characteristics

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

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