

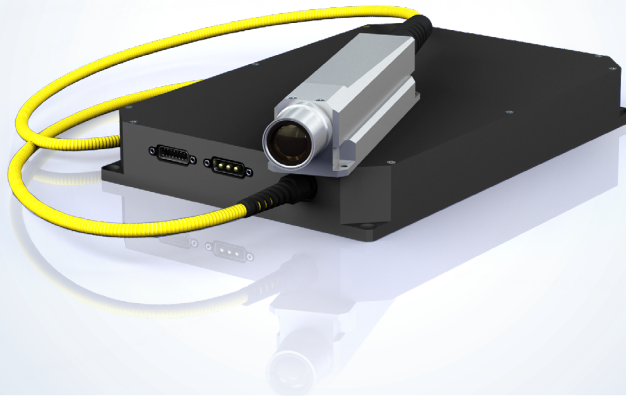


# VLM Series

## Visible CW Fiber Lasers

NEW PRODUCT

515-635 nm, up to 20 W



### Applications

- ▶ Defense and Security
- ▶ Entertainment
- ▶ Material Processing
- ▶ Medical Diagnostics/Therapy
- ▶ Holography
- ▶ Spectroscopy
- ▶ Flow Cytometry



### Features

- ▶ Choice of Wavelength 515-635 nm
- ▶ Output Power up to 20 W
- ▶ Beam Quality  $M^2=1.1$
- ▶ High Reliability
- ▶ Compact and Low Cost
- ▶ Industrial Performance

**IPG Photonics' NEW VLM Series** is a family of highly-efficient, single-mode, visible CW fiber lasers with output powers up to 20 W. Customers can select a central wavelength in the range 515-635 nm. VLM series lasers are based on IPG's efficient and reliable fiber laser technologies and feature a super-compact lightweight optical head, connected with a fiber cable to a small air-cooled control module. The all fiber construction allows for full range of output power without changes in power stability and beam mode parameters.

# VLM Series

## Visible CW Fiber Lasers

### Optical Characteristics

Typical Central Wavelength*, nm	515, 530, 590, 615, 635
Linewidth FWHM, nm	0.1
Mode of Operation	CW
Average Power, W	up to 20
Power Tunability, %	10-100
Power Stability**, %	±1
Polarization	Linear
Beam Quality, M <sup>2</sup>	1.1
Output Beam Diameter (1/e <sup>2</sup> ), mm	<2

\*Custom central wavelengths in 515-630 nm range are available upon request

\*\*Over 5 hours, T= const

### General Characteristics

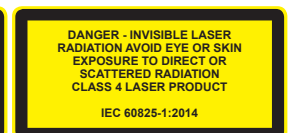
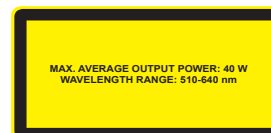
Module Dimensions*** (W × D × H), mm	325 × 217 × 43
Optical Head Dimensions (W × D × H), mm	50 × 233 × 46
Cooling	Air-cooled, Thermoconductive Bottom
Supply Voltage, VDC	24
Power Consumption, W	<480

\*\*\*Rack-mountable units with AC power are available upon request

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