457nm Raman Laser Module

Key Features:

- Free Space, Single or Multi mode Fiber Coupling
- Constant Power Control
- TTL Modulation Option
- ESD protection
- Plug & Play
- Narrow Optical Spectrum

Applications:

- Raman Application
- Bio instrument
- Semiconductor Instrument
- Medical Instrument
- Scientific Research

Specifications:

Wavelength	457nm+/-0.5nm
CW Output power	
For RM version	10mW to 2W
For RM1 version	10mW to 100mW
Output stability	5% standard or 3% optional
Spectrum width	
For RM version	<0.2nm
For RM1 verison	<0.00001nm
Optical Noise(RMS)	
For RM version	Standard 20%, 3% Optional
For RM1 version	<0.5%
Out put	Free Space or Fiber coupled
Fiber Core Diameter	
Single mode or PM	4um
Multi mode	50um, 100um, 200um, 400um
Connector	
Single mode or PM	FC/APC
Multi mode	FC/PC or SMA

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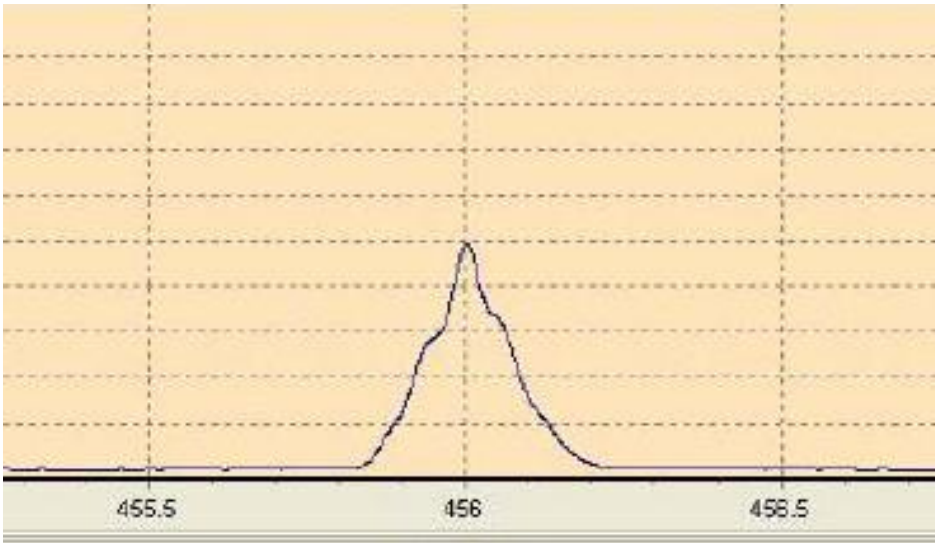
Beam Diameter(free space)	
For RM1 version	1.2mm
For RM version, 10mW ~ 2W	3.0mm
Beam Divergence(free space)	
For RM1 version	1.2 mrad
For RM version, 10mW ~ 2W	1.5mrad
M2 (free space)	
For RM1 version	1.2
For RM version, 10mW ~ 1W	2.0
For RM version, 1W ~ 2W	3.0
Polarization Ratio(free space)	>100:1
Modulation	TTL or Analog
Modulation Speed	10KHz
Operating temperature	0~40 degree C(laser case)
Warm up time	< 15minutes
Expected lifetime	>10,000hours
Power Supply	80V ~ 240V AC
Warranty	One year

Typical Optical Spectrum Performance for RM version



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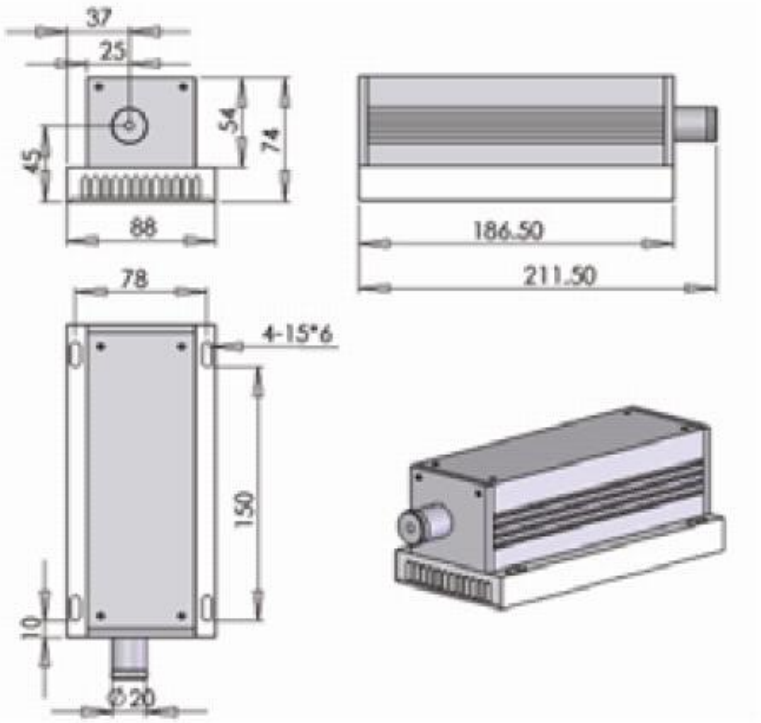
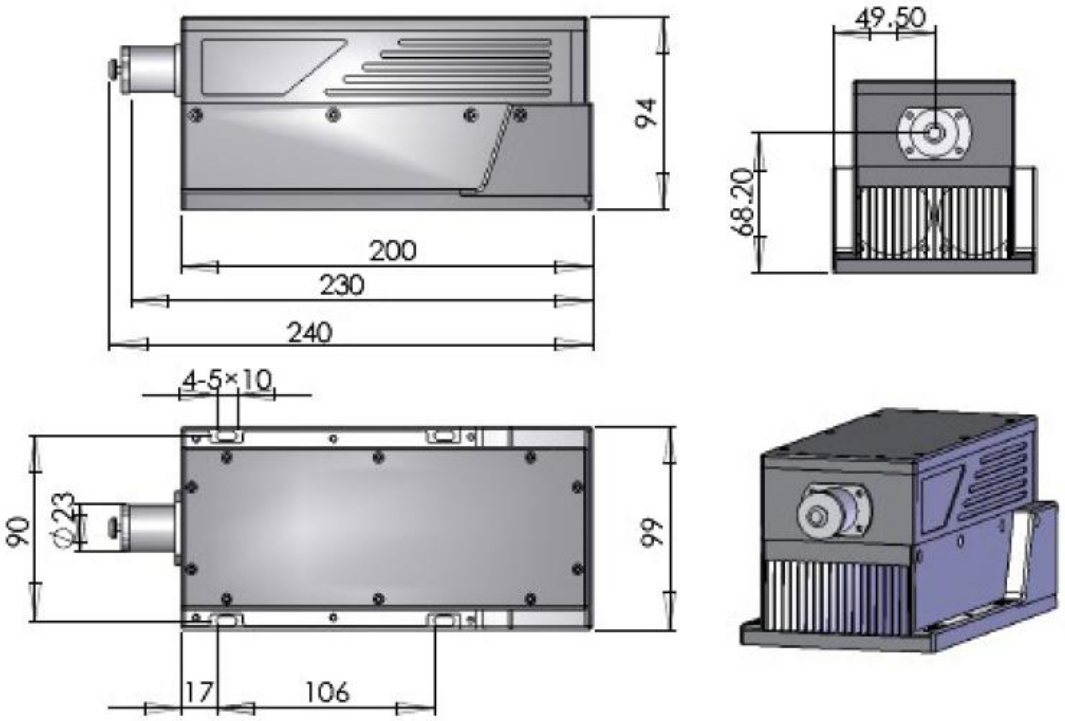
457nm Raman Laser Module

Mechanical Dimension of Laser Head for RM version



10mW ~1W



1W ~2W

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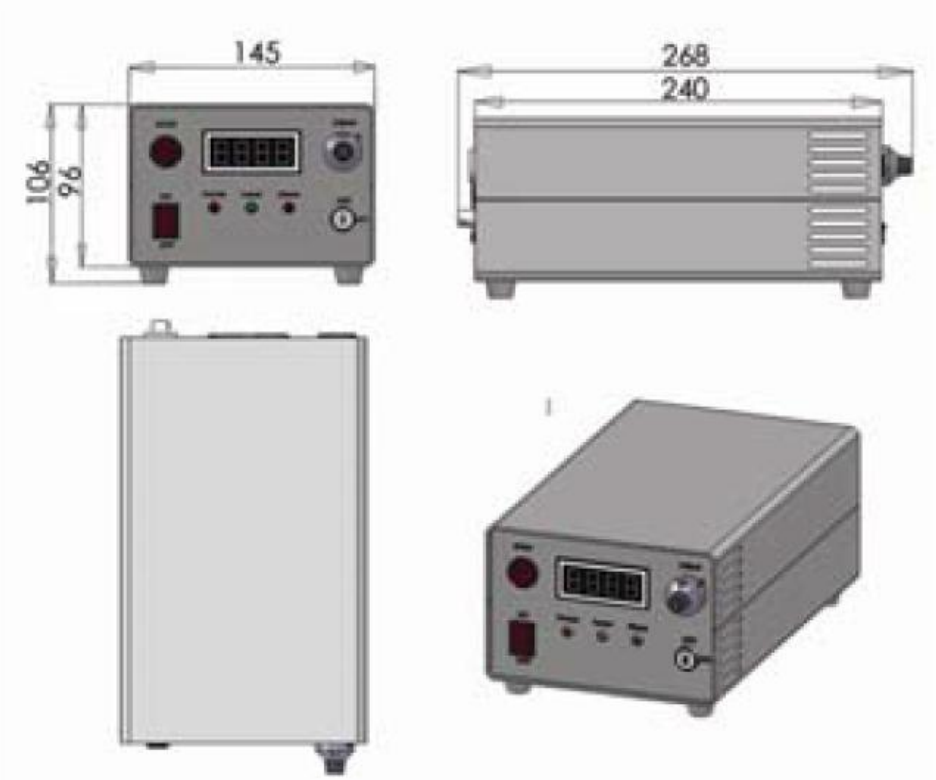
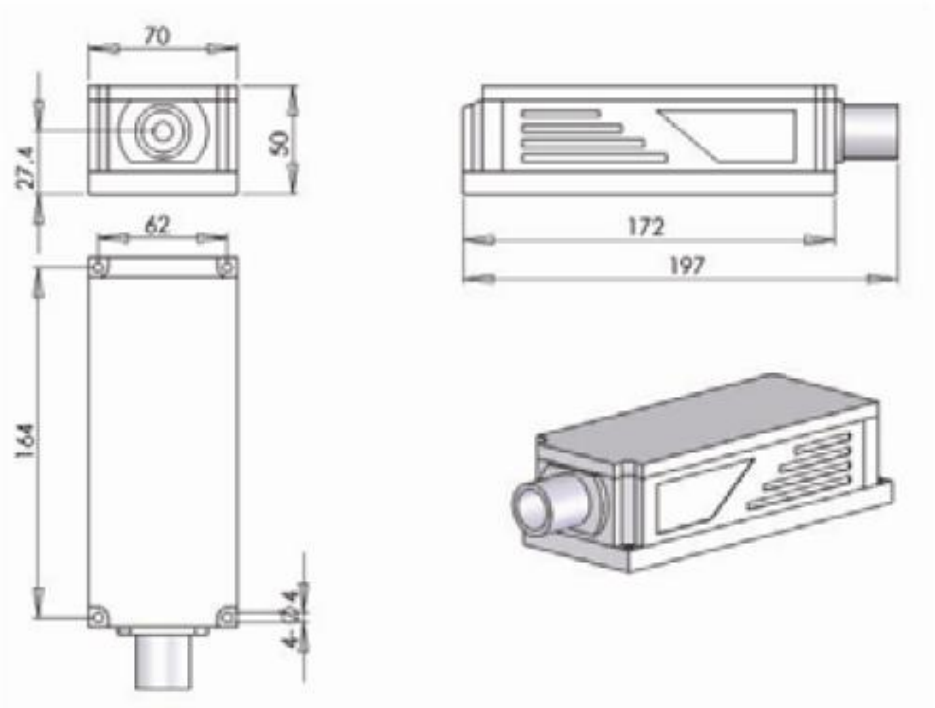
457nm Raman Laser Module

Mechanical Dimension of Laser Driver for RM version



Mechanical Dimension of Laser Head for RM1 version



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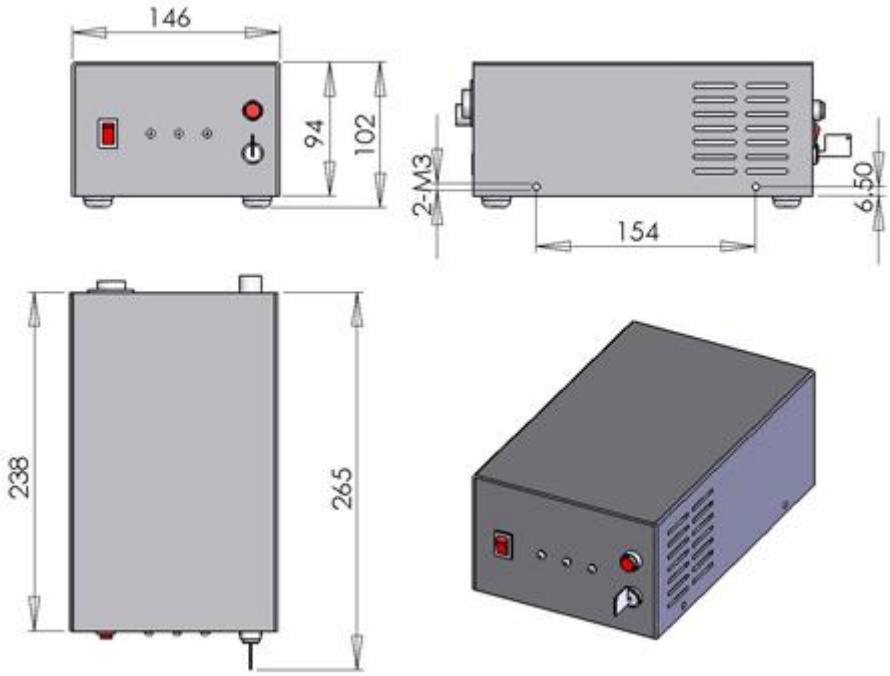
457nm Raman Laser Module

Mechanical Dimension of Laser Driver for RM1 version



This component does not comply with the Federal Regulations (21 CFR Sub chapter 1) as administered by the Center for Devices and Radiological health. Purchaser acknowledges that his/her products must comply with these regulations before they can be sold to a customer. The output light from this product is harmful to a human body even if it is invisible. Avoid looking at the output of this product directly, or through a lens during operation. Observance of operation should be through a TV camera or related equipment. Refer to IEC 825-1 and 21 CFR 1040.10-1040.11 as a radiation safety standard for laser products.

RGBLase LLC follows a policy of continuous product improvement. Specifications are subject to change without notice.

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