



**Model No. IMLN-1550-XFYP2Q**  
**1550nm INFRARED DIODE LASER SYSTEM UP TO >3500mW**

The IMLN-series 1550 nm infrared diode laser is constructed with features of high stability, FDA compliance, high power, ultra-compactness, long lifetime, cost-effectiveness, and easy operation. It is widely used in measurement, communication, spectrum analysis, and many other applications. *In addition, fiber coupled IMLN-series 1550nm diode lasers with FC or SMA905 connector are available upon request.*

**SPECIFICATIONS**

<b>Model No.</b>	<b>IMLN-1550-XFYP2Q</b>
<b>Wavelength (nm)</b>	1550±10
<b>Output power (mW)</b>	>1000 (X=1W), >2000 (X=2W), >3000 (X=3W), >3500 (X=3500)
<b>Transverse mode</b>	Near TE <sub>00</sub>
<b>Operating mode</b>	CW
<b>Power stability (rms, over 4 hours)</b>	<0.5% (P=S), <1% (P=D)
<b>M<sup>2</sup> factor</b>	<20
<b>Dimensions of beam at aperture (1/e<sup>2</sup>, mm)</b>	5~8
<b>Beam divergence, full angle (mrad)</b>	<3.0
<b>Warm-up time (minutes)</b>	<5
<b>Polarization ratio</b>	>100:1
<b>Beam height from base plate (mm)</b>	68.5
<b>Operating temperature (°C)</b>	10~35
<b>Laser head</b>	245(L) x99(W) x94(H) mm <sup>3</sup> , 2.5 kg
<b>Power supply (100-240VAC)</b>	<b>High Power Elite Power Supply (Y=H):</b> 275(L) x145(W) x104(H) mm <sup>3</sup> , 2.1kg; complete FDA compliant features (turnkey switch and interlock); easy to operate; CW mode with optional TTL or Analog modulation up to 30kHz  <b>High Power Laboratory Power Supply (Y=M):</b> 277(L) x145(W) x106(H) mm <sup>3</sup> , 2.3kg; complete FDA compliant features (turnkey switch and interlock) with more functions; CW mode with adjustable output power knob, operating current LED display, and optional TTL or Analog modulation up to 30kHz
<b>Optional modulation</b>	None (Q=0) <b>TTL:</b> 1Hz -1kHz (Q=1), 1kHz -10kHz (Q=2), 10kHz-30kHz (Q=5) <b>Analog:</b> 1Hz -1kHz (Q=3), 1kHz -10kHz (Q=4), 10kHz-30kHz (Q=6)
<b>Expected lifetime (hours)</b>	10,000
<b>Warranty</b>	10 months
<b>Remarks</b>	The stability of output power may change when you adjust the output power. For example, the stability of output power at the maximum output power is <10%, the stability may change to >10% when you adjust the output power down.

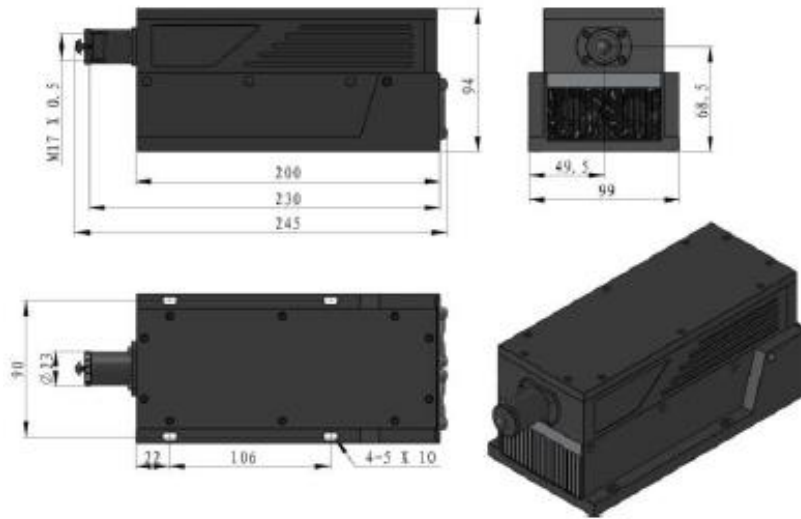
**Note: The above specifications are subject to change without notice.**





MECHANICAL OUTLINE (unit: mm)

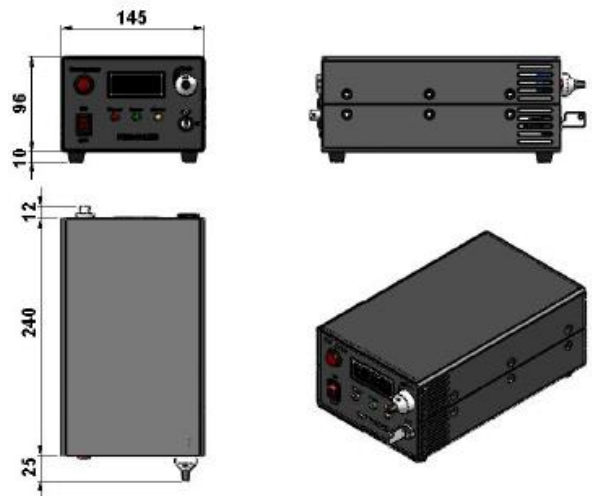
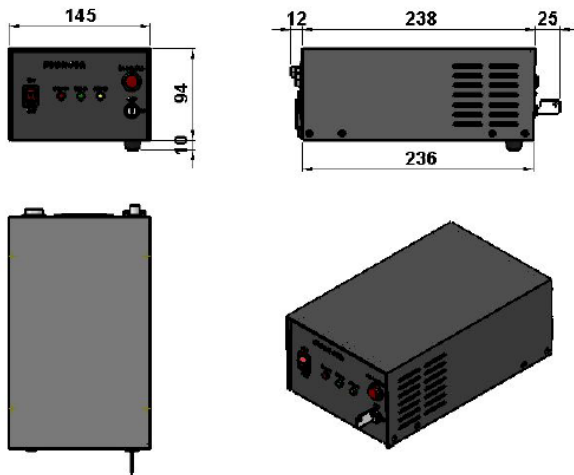
Laser Head



Power Supply

High Power Elite Power Supply (Y=H)

High Power Laboratory Power Supply (Y=M)



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