



## M-PICO-LAB-REGEN Picosecond Narrowband 20μJ Nd:YVO<sub>4</sub> Laser

Laboratory-style amplified picosecond specialty laser with narrow optical spectrum



Description	For research or academic purposes, this breadboard-style, open-housing picosecond laser is based on a Nd:YVO <sub>4</sub> modelocked seed oscillator which is amplified in a Nd:YVO <sub>4</sub> regenerative amplifier into the >10μJ energy regime at low repetition rates (1...1000 Hz). This laser is based on diode-pumping and semiconductor saturable absorber mirror (SeSAM) technology for modelocking. Included is a 19" rack controller with the laser diode and control electronics.	
Applications	<ul style="list-style-type: none"> <li>- Seeding of high energy or large scale laser amplifiers such as Nd:YAG, Nd:YVO<sub>4</sub></li> <li>- Pumping of OPAs</li> <li>- Frequency conversion</li> </ul>	
Models/Configurations	<ul style="list-style-type: none"> <li>- Model PR197: Nd:YVO<sub>4</sub> based picosecond microjoule laser</li> <li>- SYNC option available for synchronizing with external reference clock.</li> <li>- Inquire about customizations or specifications not listed here, low rep rates, etc.</li> </ul>	
Specifications	<p>Model: M-PICO-LAB-REGEN</p> <p>Output Pulse Energy Wavelength (center) Output pulse repetition rate Seeder repetition rate Pulse duration (FWHM) Beam quality M<sup>2</sup> (typ.) Controller unit Electrical power requirement Cooling requirement** Size (l x w x h)***</p> <p>*Inquire for other rep rates; internal and external triggering **ambient air 20-30°C (lab conditions) ***not including connectors, shutter, screws, etc.</p>	<p>Nd:VAN [PR197]</p> <p>&gt; 20 μJ 1064 nm (Nd:YVO<sub>4</sub>) 1 ... 1000 Hz 70 MHz (or specify) 50 ps (10 ... 100 ps on request) &lt;1.5 19" rack (3 HE) Wall plug air or closed loop chiller ~566 x 400 x 105 mm<sup>3</sup></p>

### Dimensions

