

# Laser Attenuator/Power Splitter User Instructions

*Model 201*



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## Model 201 - Product Description

This new product is a unique combination Laser Attenuator and Power Splitter. It allows the attenuation of the high power laser beams by a factor of 100,000. This device was specially designed to output the split beam as the same angle regardless of wavelength used.

It utilizes an adjustable achromatic  $\frac{1}{2}$  wave plate and Glan Laser Polarizer. It has an operation wavelength range of 650-1200nm, with beams up to 10 watts CW. This device provides greater than 90% transmission and has an 8mm aperture.

Mechanically it has a 50mm diameter housing by 75mm long. For mounting it has a standard  $\frac{1}{4}$ -20 mounting hole.

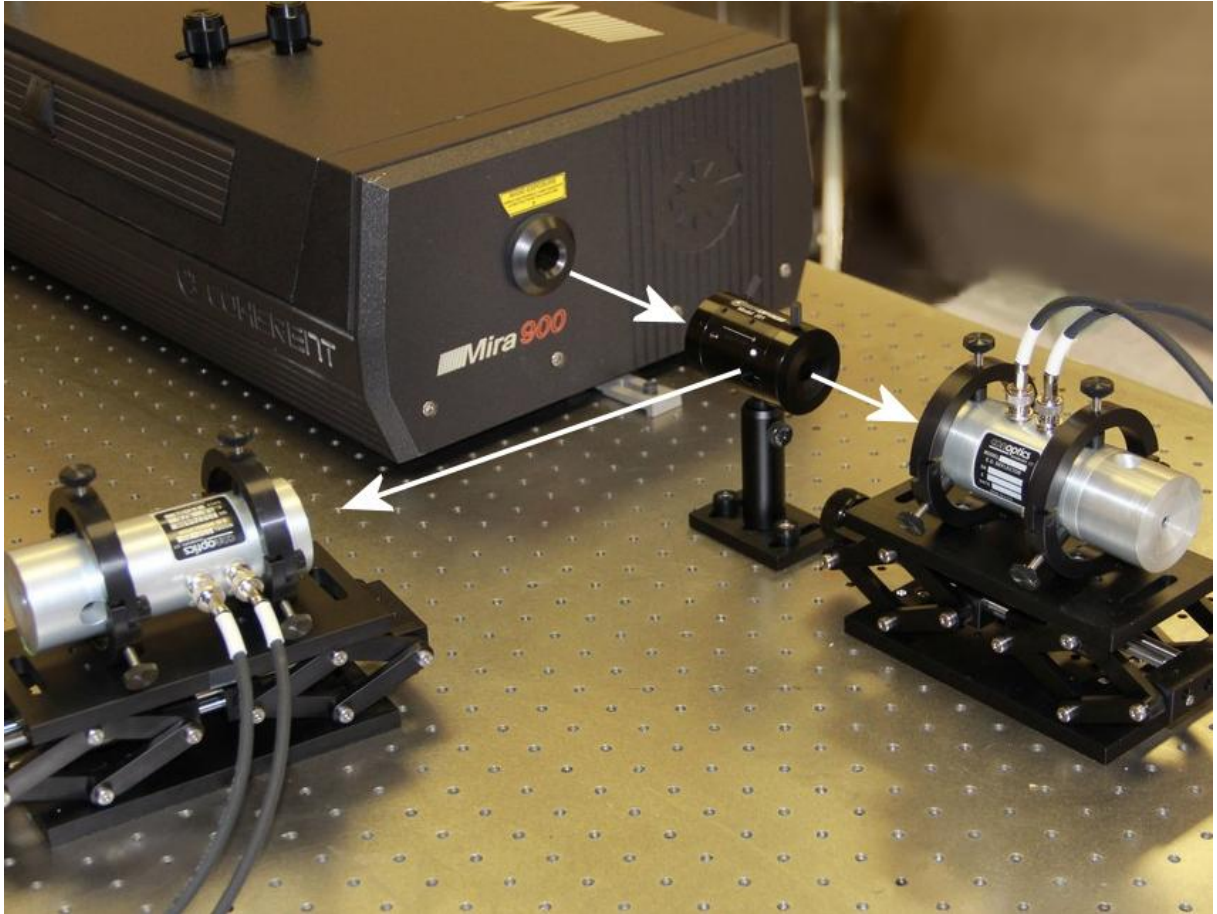
*Note: a 8-32 mounting is possible with a threaded adapter*

All adjustments rotate precisely and can be locked into position with the use of thumbscrews. A beam stop is provided to terminate the beam internally if required.

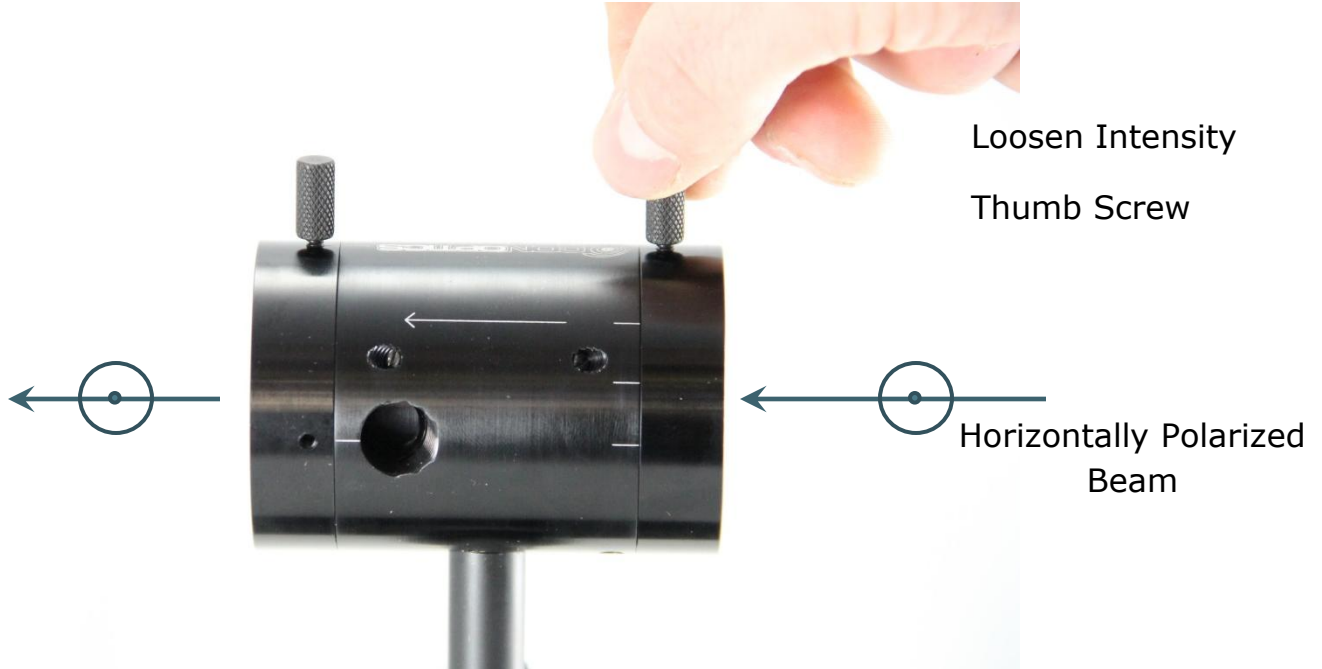
**Model 201 - Product Key**



**Model 201 - Typical Lab Setup**



## Adjusting the Intensity





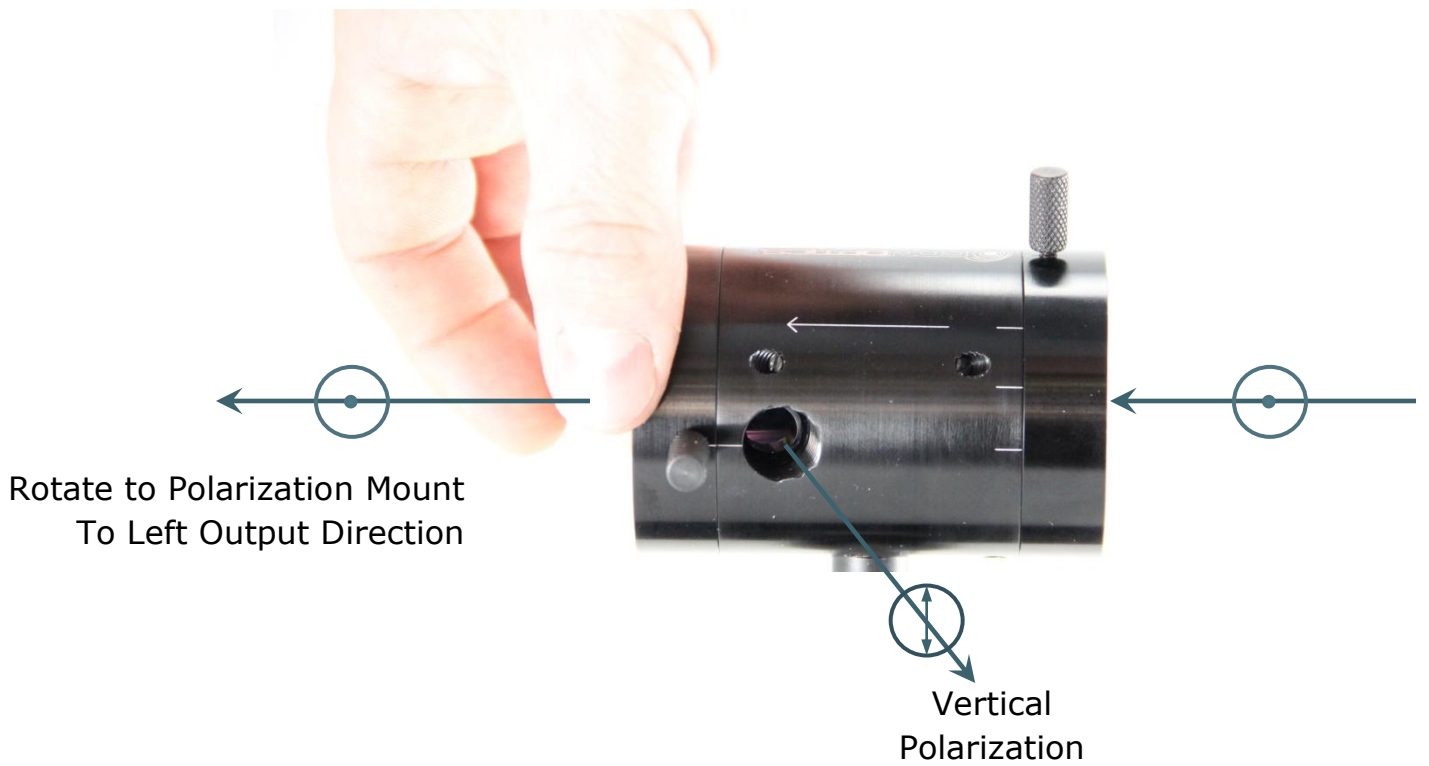
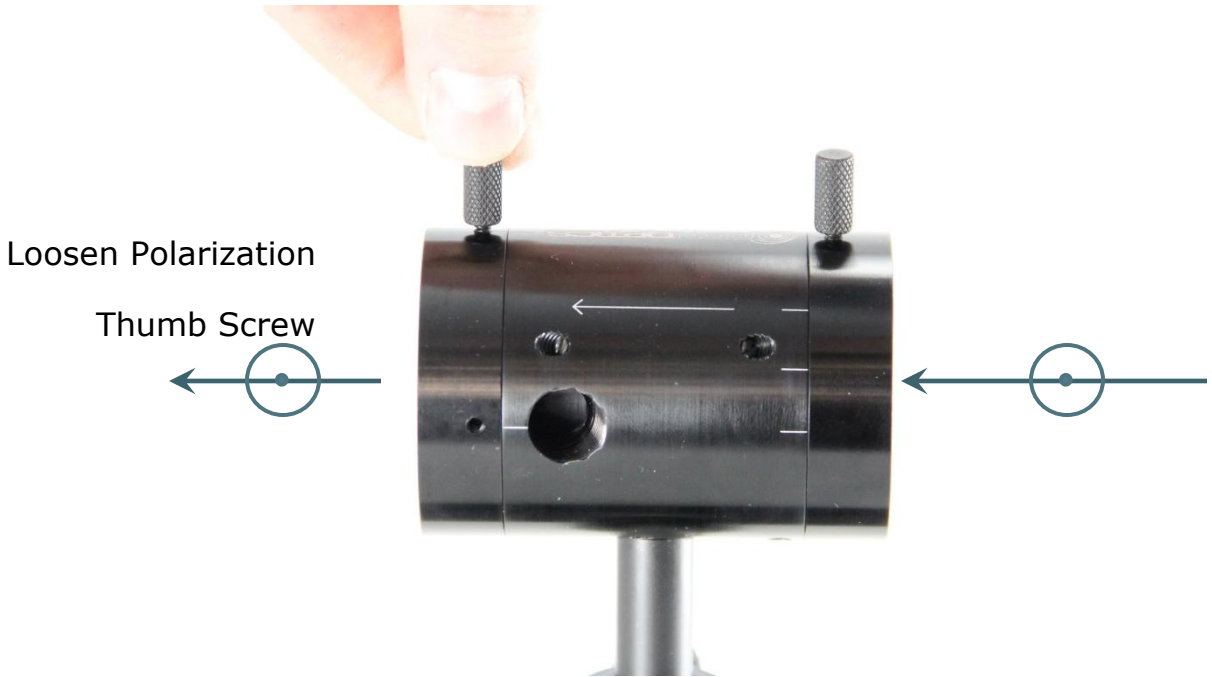
Rotated Intensity Mount  
to 50% Output



Rotated Intensity Mount  
to Maximum Output



## Adjusting the Polarizer Output



**To Block the Beam from Exiting from the Left / Right Output Directions**



Beam Stop installed on Left side



## Model 201 - Specifications

Aperture	8mm
Dimensions	50mm Diameter X 75mm Long
Transmission	>90%
Wavelength Range	650nm - 1200nm
Ports	2 No Change in Angle with wavelength Beam Block supplied to Terminate Beam Internally
Wavefront	>1/10 Lambda
Extinction Ration	100,000 : 1
Power Capability	>10 Watt CW
Optical Components	Adjustable Achromatic 1/2 Wave Plate Adjustable Glan Laser Polarizer Escape Port Normal to Beam All Optics are Air-spaced (uses no Cement)

