



Attenuator Module

Commercial Laser Modules

The Laser Attenuator Module provides linearized control of a laser's energy. The attenuator may be adjusted from 0 % to 100 % with a shutter closure to ensure no residual energy at 0 % output. An internal calibration and linearization function simplifies setup and calibration. Attenuator modules can be connected together in a daisy chain to provide independent control of energy in multiple wavelength systems.

Wavelengths

- 266 nm
- 355 nm
- 532 nm
- 1064 nm



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SPECIFICATIONS

Laser Attenuator Module

AVAILABLE WAVELENGTHS: 266 nm, 355 nm, 532 nm, or 1064 nm

INPUT

beam height	60 mm (other configurations available upon request)
direction	collinear
polarization	horizontal (vertical may be used, attenuation reversed) vertical (532 nm only)
fluence	2 J/cm ² max
diameter	10 mm max (aperture limit)

OUTPUT

direction	collinear, 180 degrees to input
displacement	0 deg, collinear
polarization	linear, vertical
tmax	266 nm > 90 % 355 nm > 90 % 532 nm > 90 % 1064 nm > 90 %
extinction ratio	22 dB min (150:1) min
purity	residual energy < 0.25 %
range	0 to Tmax, linearized, normalized
resolution	0.2 % nominal

CONTROLLER

comm	RS232, w/ bypass output, which allows multiple units to be daisy chained on the same serial port.
baud rate	57,600 (other speeds available on request).
range	0 to 100 %
resolution	0.1 %
tact time	< 1 s, full range motion, for all four wavelengths
power	5 & 12 VDC

