



# OEM laser power attenuator LPA-OEM

## Main features

- Compact, cost-effective design
- Detachable controller for better integration
- 175,543  $\mu$ steps in full rotation
- $\pm 10$   $\mu$ steps accuracy ( $\pm 0,02$  deg, less than  $\pm 0,05$  % of laser power)
- Fast adjustment - less than 0,2 sec (min to max)
- High damage threshold up to 10 J/cm<sup>2</sup> (10 ns @ 1064 nm)
- Adjustable polariser angle for highest contrast

## Application examples

- Precise laser micromachining
- Laser power control and attenuation
- Research
- Laser integration

OEM Laser power attenuator (LPA-OEM) is a compact, cost-effective motorised laser power control unit designed for integration. The LPA-OEM is produced in the UV, visible and NIR spectral ranges, from 250 nm to 2000 nm. This device is combined with the unique mechanical design which ensures repeatability and high stability of performance. All optical components of the LPA are made for high LIDT and provide stable and reliable performance even using them with high power lasers in industrial applications.

## Standard specifications

LASER POWER ATTENUATOR LPA-OEM SPECIFICATIONS	
Input and output clear aperture	$\varnothing 8$ mm
Power attenuation range	<0,1% to >98%
LIDT coating	>10 J/cm <sup>2</sup> (10 ns @ 1064 nm)
Close to open time	<0,2 sec
Resolution	175,543 $\mu$ steps in full rotation 21,943 $\mu$ steps in min/max rotation (0,002 deg, 7,2 arcsec, 0,035 mrad)
Accuracy	$\pm 10$ $\mu$ steps ( $\pm 0,02$ deg, less than $\pm 0,035$ %)
Dimensions (H x W x L)	58 x 36 x 57 mm LPA-OEM 58 x 50 x 67 mm LPA-OEM with beam controller 58 x 67 x 67 mm detached controller

\*Custom design available

**PHOTO  
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## Standard products

MODEL	ATTENUATION RANGE	LIDT (COATING)	DESIGN WAVELENGTH	SKU
LPA-OEM	0,5 - 95%	2 J/cm <sup>2</sup> (10 ns @ 266 nm)	257 nm	20051
LPA-OEM	0,5 - 95%	2 J/cm <sup>2</sup> (10 ns @ 266 nm)	266 nm	20052
LPA-OEM	0,2 - 96%	3 J/cm <sup>2</sup> (10 ns @ 355 nm)	343 nm	20053
LPA-OEM	0,2 - 96%	3 J/cm <sup>2</sup> (10 ns @ 355 nm)	355 nm	20054
LPA-OEM	0,1 - 98%	5 J/cm <sup>2</sup> (10 ns @ 532 nm)	515 nm	20055
LPA-OEM	0,1 - 98%	5 J/cm <sup>2</sup> (10 ns @ 532 nm)	532 nm	20056
LPA-OEM	0,5 - 95%	5 J/cm <sup>2</sup> (10 ns @ 532 nm)	515+1030 nm	20059
LPA-OEM	0,1 - 98%	10 J/cm <sup>2</sup> (10 ns @ 1064 nm)	1030 nm	20057
LPA-OEM	0,1 - 98%	10 J/cm <sup>2</sup> (10 ns @ 1064 nm)	1064 nm	20058