



Unpolarized beam motorized laser power attenuators LPA-U



Advanced motorised laser power attenuator LPA-U is a unique device designed for unpolarised laser power control with integrated controller and absolute position encoder.

The LPA-U is produced in the UV, visible and NIR spectral ranges, from 343 nm to 2000 nm and 10,6 μm . This device is combined with the unique mechanical robust design which ensures high repeatability.

All optical components of the LPA-U are made for high LIDT and provide stable and reliable performance even using them with high power lasers in industrial applications.

A secondary laser beam from laser power attenuator unit is rejected to an internal beam dump. Water-cooling is used for avoiding any thermal effects or stress in the housing of the LPA-U device.

Main features

- Designed for unpolarised laser beam
- Up to 200W of average laser power
- Beam offset compensated
- Integrated controller
- Absolute position encoder - no homing required
- High accuracy $\pm 0,005$ deg
- Robust design with water-cooling
- Clear aperture - $\varnothing 12$ mm
- Fast adjustment - less than 0,5 sec (min to max)
- High damage threshold: up to 10J/cm² (10 ns @ 1064 nm)

Application examples

- Precise laser micromachining
- Laser power stabilization
- Research

Standard specifications

UNPOLARIZED BEAM MOTORIZED LASER POWER ATTENUATOR LPA-U SPECIFICATIONS	
Input and output clear aperture	12 mm
Controller	Integrated
Dimensions (H x W x L)	5 x 93,5 x 135 mm
Control interface	USB or RS232



Standard products

MODEL	ATTENUATION RANGE	DIMENSIONS (H x W x L)	DESIGN WAVELENGTH	SKU	PRICE
LPA-U	2 - 95%	85 x 93,5 x 135 mm	1070 nm	21710	3500 €
LPA-U	2,5 - 93%	85 x 93,5 x 135 mm	1064 nm	28839	3500 €