

ML 2100

Variable attenuator "VARILUX"

DESCRIPTION

The variable beam attenuator enables a continuous attenuation of the laser energy and is specially used for high-power excimer lasers. The optic components of the device consist of a dielectric filter for beam attenuation as well as a neutral optical unit to compensate the beam displacement. The continuous attenuation of the coupled laser beam is attained by changing the angle of incidence of the dielectric filter in the range of 0° to 45°.



SPECIAL FEATURES

- Precise adjustment of the angle of incidence
- Ceramic absorber plates as a "beam dump" for high-power laser radiation
- Base plate with M6 mounting threads for adaption to existing measuring units
- No displacement of the attenuated beam

TECHNICAL DATA

| Available wavelengths: ¹ | Max. transmission | Min. transmission | Damage threshold |
|-------------------------------------|-------------------|-------------------|------------------------|
| 193 nm | > 80 % | < 1 % | 1.0 J/cm ² |
| 248 nm | > 90 % | < 1 % | 1.5 J/cm ² |
| 266 nm | > 90 % | < 1 % | 2.0 J/cm ² |
| 308 nm | > 90 % | < 1 % | 3.0 J/cm ² |
| 355 nm | > 90 % | < 1 % | 5.0 J/cm ² |
| 532 nm | > 90 % | < 1 % | 8.0 J/cm ² |
| 1064 nm | > 90 % | < 1 % | 15.0 J/cm ² |

¹: Others on request

OTHER DATA

| | |
|-------------------------|---------------------------------|
| Max. beam cross-section | 50 x 20 mm ² |
| Dimensions | 100 x 100 x 100 mm ³ |
| Weight | approx. 1.4 kg |

The device is available as hand-operated version with mechanical gear or as motor-driven version together with the controller model ML 2010 (see separate data sheet).

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