



Attenuation Unit 0° - Technical Data -

The attenuation unit is based on a zinc selenide (ZnSe) beam splitter and can be mounted in four positions on the LaserDec aperture. It is designed for a 10° angle of incidence and can be used up to intensities of 4kW/cm². The absorbed heat is dissipated by cooling water whereby thermal lens effects are eliminated. The water-cooling allows the utilization of lasers up to powers of 2kW. To avoid interference patterns the beam splitter is designed as wedge angle.

	AU-05-0	AU-10-0	AU-15-0	AU-20-0
Spectral Range*:	10.6µm	10.6µm	10.6µm	10.6µm
Transmission rates*:	T=5%	T=10%	T=15%	T=20%
Angle of incidence:	10°	10°	10°	10°
Aperture:	Ø=25mm	Ø=25mm	Ø=25mm	Ø=25mm
Beam diameter (1/e ²) LaserDec CL200:	max. 10mm	max. 10mm	max. 10mm	max. 10mm
Beam diameter (1/e ²) LaserDec CL500:	max. 15mm	max. 15mm	max. 15mm	max. 15mm
Wedge angle:	6-10min	6-10min	6-10min	6-10min
Surface:	S1=plan - 95%R S2=plan - AR	S1=plan - 90%R S2=plan - AR	S1=plan - 85%R S2=plan - AR	S1=plan - 80%R S2=plan - AR
Intensity (I _{max}):	4kW/cm ²	4kW/cm ²	4kW/cm ²	4kW/cm ²
Power (P _{max}) LaserDec CL200:	2kW	2kW	1.5kW	1kW
Power (P _{max}) LaserDec CL500:	2kW	2kW	2kW	2kW
Water-cooling:	2l/min / 2bar	2l/min / 2bar	2l/min / 2bar	2l/min / 2bar
Hose diameter:	OD=8mm	OD=8mm	OD=8mm	OD=8mm

* different parameters on request

Design and specification of the described product(s) are subject to change without notice.

