

CO₂ Laser Homogenizers

Preliminary Datasheet -50313

Holo-Or introduces a new series CO₂ Laser Homogenizers that consist of pure ZnSe with an high power AR V-Coating on both surfaces. .

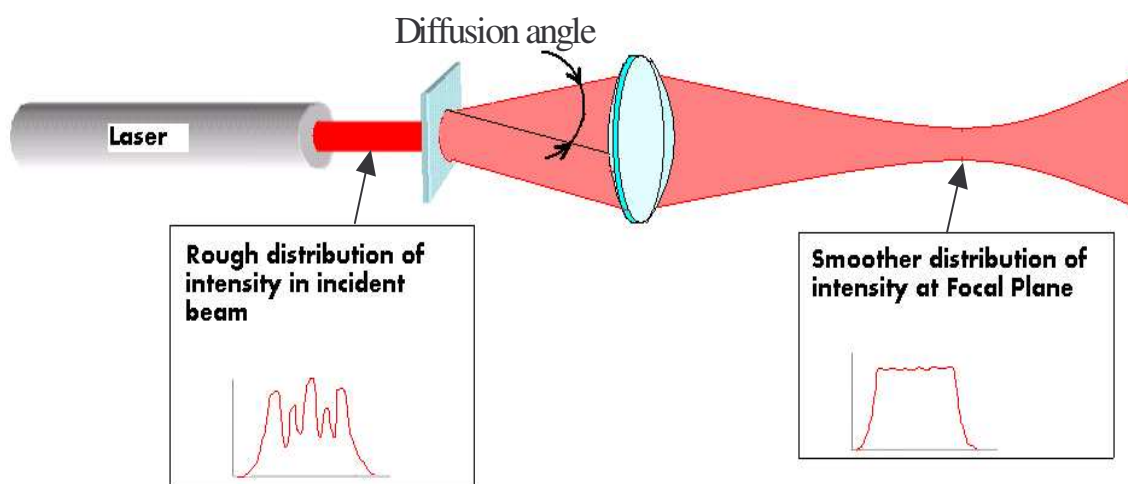
- ❑ High Damage Threshold
- ❑ Low Back Reflection
- ❑ Ar/Ar coated
- ❑ High Efficiency
- ❑ Accepts any beamshape
- ❑ Pure ZnSe
- ❑ Medium diffusing angle
- ❑ Custom angles, wavelengths and dimensions possible

Application note: The homogenizer smoothens the profile of a spot focused in the focal plane of a lens AT ANY DISTANCE (spot operation), or at a working distance larger than the Minimum Working Distance (MWD) defined (Far field operation). If operated at shorter distances and not in a focal plane of a lens some undesired peaks may appear.

Standard ZnSe Homogenizers

Part number	Full Angle	MWD	Wavelength
DF-1060	5°	50mm	10600nm

Fig 1. Typical Optical Scheme



Options

Coating	ARAR NC	10600nm V-Coating, rated up to 4kW Not recommended to use it uncoated for 10600nm
Grades	A	Less than 5% energy in Zero Order @ 10600nm

Dimensions

Dimensions	25.4mm dia X 3mm thickness
Clear Aperture	23mm dia

General specifications

	Ar/Ar Coated	Possible for Custom design
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Transmission Efficiency:	>98%	
Part of energy expected within Defined angle	80%	95%

Material:	<i>ZnSe</i>	Angle of incidence:	0°
Dimensions:	<i>+0/-0.2mm</i>	Damage threshold coating:	<i>4kW</i>
Optimal Beam Dia	<i>4-21mm</i>	Min Spike Dia at input	<i>1mm</i>