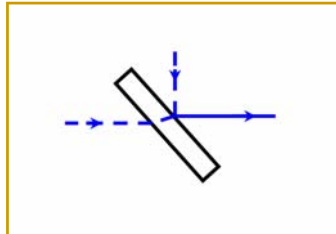


# CO<sub>2</sub> + Pointing Laser Beam



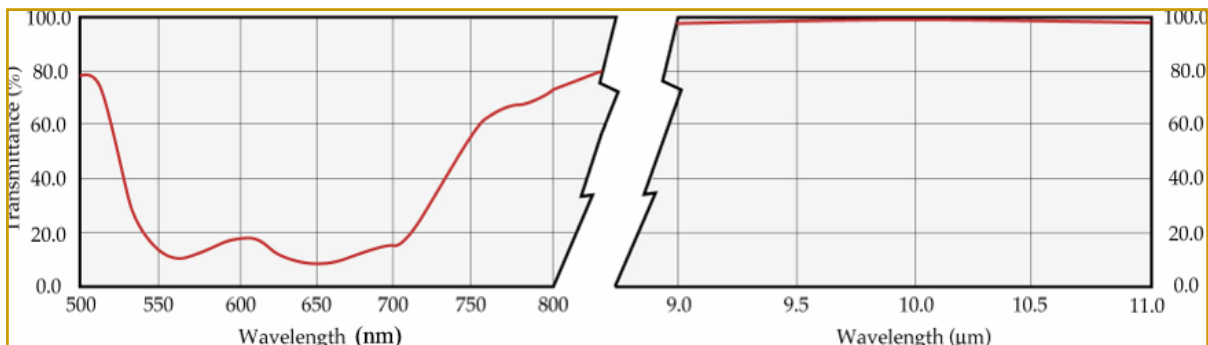
These beam combiners are intended for super-imposing visible alignment lasers with CO<sub>2</sub> laser beams.



Standard diameters are 12.7, 15.2, 19.1, 25.4, 27.9, 38.1, 44.4 and 50.8 mm.

The CO<sub>2</sub> laser beam is transmitted while the red alignment laser beam is reflected at a 45° angle.

Thickness varies from 2 to 5 mm in order to control the flatness specification.



A dichroic coating is applied to the reflecting face and an anti-reflection coating for 10.6µm is applied to the rear surface. Three different substrates are offered, Zinc Selenide, Gallium Arsenide or Germanium.

Typical Specifications	
Substrate Material:	ZnSe, GaAs, Ge
Surface flatness:	$\lambda/20$ @ 10.6 µm
Surface quality:	40/20
Parallelism:	< 3 arcmin
Diameter:	+0.0 / -0.2 mm
Thickness:	$\pm$ 0.25 mm
Clear aperture:	> 85% of diameter
Reflectance:	R>90% @ 650nm $\pm$ 20nm
Transmittance:	T>98% @ 10.6µm
AOI:	45 deg
Absorptance (ZnSe or GaAs):	< 0.2%
AR coating:	R<0.5% @ 10.6µm

To request a quote or to order, please specify:

Quantity — Substrate Material — Diameter

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For a quotation — please phone, fax or email us with details of your requirements.