

Laser Mirrors

- **Wide wavelength range: 266nm to 3200nm**
- **Coatings: HR and PR; AOI 0° to 45°; Single and multi wavelength and broad band**
- **Substrates: BK7, UV FS, CaF2, MgF2 or customized materials**

The mirrors is one of the critical components in the laser systems. Hangzhou Shalom EO offers a variety of **laser mirrors**, which includes: HR rear mirrors and PR **output coupling mirrors** used in the laser cavities, AOI 45 degree HR mirrors and the multi-wavelength HR mirrors (MWHR mirrors) used in the light guide systems and the scanning mirrors for laser scanner components ect.



Application Notes

Mirrors are used in following lasers:

- Nd:YAG or Nd:YVO4 lasers
- Diode lasers
- Fiber lasers
- He-Ne lase and gas lasers
- Ti:Sapphire lasers
- other lasers or components

SPECIFICATIONS

Specifications		
Material	BK7 UV fused Silica	CaF ₂ , MgF ₂
Surface Quality	10/5 S/D	20/10 S/D
Flatness	Lambda/10 @ 633nm	Lambda/10 @ 633nm
Dimensional tolerance	+0.0 / -0.20 mm	
Thickness Tolerance	+/- 0.20mm	
Centering Tolerance	Less than 3 minutes	
Clear Aperture	>85% of dimension	
Damage Threshold	10J/cm ² , 8nsec pulse; 500MW/cm ² , CW at 1064nm	

These are common used mirrors, Hangzhou Shalom EO would provide them from stocks in fast delivery:

1) Typical HR mirrors with AOI= 0 degree in stocks

λ (nm)	355	532	633、780、808、980	1064	1315	1550
R (%)	>96	99.5	99.8	99.8	99.8	99.8

2) Typical HR mirrors with AOI=45 degree in stocks

λ (nm)	355	488	532	633、780、808、980	1064
R (%)	>96	>98	98	99.5	99.5

3) Typical multi-wavelength HR mirrors (MWHR) with AOI=45 degree in stocks

λ (nm)	532/1064	532/633/1064	532/650/1064	532/808/1064	532/650/808	650/1064
R (%)	>99	98/80/98	98/70/98	98/70/98	98/90/99	90/99

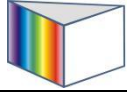
4) Output Coupling Mirrors of 1064nm in stocks

Transmission T=5、10、15、20、30、50

5) Scanning mirrors of the 1064nm in stocks

6) Mirrors for He-Ne Lasers in stocks

- Diameter: 9mm,11mm and 14mm
- 633nm output coupling mirrors
- 633nm HR rear mirrors: AOI=0 degree; R>99.8%; AOI= 45 degree; R>99.5%



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