

## DUAL BAND MIRRORS

### SPECIFICATIONS

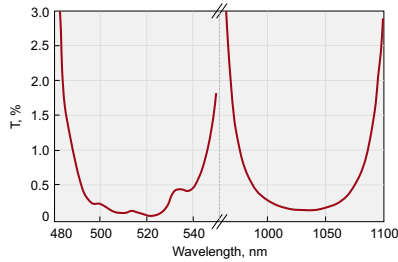
Coating	Hard dielectric High Reflection R>99.5%
Angle of Incidence	0 or 45±3°
Designed for average polarization	$R=(R_s+R_p)/2$
Laser Damage Threshold	>50 mJ/cm <sup>2</sup> , 50 fsec pulse, 800 nm typical

### SUBSTRATE

Material	UV grade Fused Silica or BK7 glas
S1 Surface Flatness	$\lambda/10$ at 633 nm
S1 Surface Quality	20-10 scratch & dig (MIL-PRF-13830B)
S2 Surface Quality	Commercial polish
Diameter Tolerance	+0.00 mm -0.12 mm
Thickness Tolerance	±0.25 mm
Wedge	< 3 min
Chamfer	0.3 mm at 45° typical

### Dual Band Mirrors

Substrate material: **BK7 grade A**



HR>99.5% @ 500-530 nm+1000-1060 nm,  
AOI = 45°

Size: **12.7 × 3 mm**

Wavelength, nm	R, % (s+p)/2		Catalogue number		Price, EUR
	AOI=0° / AOI=45°		AOI=0°	AOI=45°	AOI=0° / AOI=45°
390-410+780-820	99.8 / 99.5		<b>051-4080-i0</b>	<b>051-4080</b>	85 / 85
500-530+1000-1060	99.8 / 99.5		<b>051-5103-i0</b>	<b>051-5103</b>	85 / 85

Size: **25.4 × 6 mm**

Wavelength, nm	R, % (s+p)/2		Catalogue number		Price, EUR
	AOI=0° / AOI=45°		AOI=0°	AOI=45°	AOI=0° / AOI=45°
390-410+780-820	99.8 / 99.5		<b>052-4080-i0</b>	<b>052-4080</b>	103 / 103
500-530+1000-1060	99.8 / 99.5		<b>052-5103-i0</b>	<b>052-5103</b>	103 / 103

Size: **50.8 × 8 mm**

Wavelength, nm	R, % (s+p)/2		Catalogue number		Price, EUR
	AOI=0° / AOI=45°		AOI=0°	AOI=45°	AOI=0° / AOI=45°
390-410+780-820	99.8 / 99.5		<b>055-4080-i0</b>	<b>055-4080</b>	151 / 151
500-530+1000-1060	99.8 / 99.5		<b>055-5103-i0</b>	<b>055-5103</b>	151 / 151

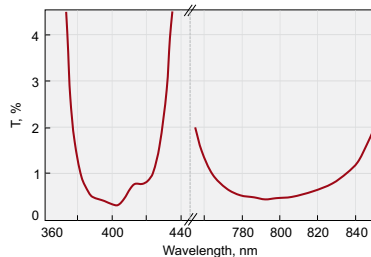
Size: **76.2 × 12.7 mm**

Wavelength, nm	R, % (s+p)/2		Catalogue number		Price, EUR
	AOI=0° / AOI=45°		AOI=0°	AOI=45°	AOI=0° / AOI=45°
390-410+780-820	99.8 / 99.5		<b>057-4080-i0</b>	<b>057-4080</b>	227 / 227
500-530+1000-1060	99.8 / 99.5		<b>057-5103-i0</b>	<b>057-5103</b>	227 / 227

### Dual Band Mirrors

Substrate material: **UV grade Fused Silica**

*Recommended for high power laser applications operating in UV region.*



HR>99% @ 400 nm + 800 nm, AOI = 45°

Size: **12.7 × 3 mm**

Wavelength, nm	R, % (s+p)/2		Catalogue number		Price, EUR
	AOI=0° / AOI=45°		AOI=0°	AOI=45°	AOI=0° / AOI=45°
390-410+780-820	99.8 / 99.5		<b>061-4080-i0</b>	<b>061-4080</b>	110 / 110
500-530+1000-1060	99.8 / 99.5		<b>061-5103-i0</b>	<b>061-5103</b>	110 / 110

Size: **25.4 × 6 mm**

Wavelength, nm	R, % (s+p)/2		Catalogue number		Price, EUR
	AOI=0° / AOI=45°		AOI=0°	AOI=45°	AOI=0° / AOI=45°
390-410+780-820	99.8 / 99.5		<b>062-4080-i0</b>	<b>062-4080</b>	128 / 128
500-530+1000-1060	99.8 / 99.5		<b>062-5103-i0</b>	<b>062-5103</b>	128 / 128

Size: **50.8 × 8 mm**

Wavelength, nm	R, % (s+p)/2		Catalogue number		Price, EUR
	AOI=0° / AOI=45°		AOI=0°	AOI=45°	AOI=0° / AOI=45°
390-410+780-820	99.8 / 99.5		<b>065-4080-i0</b>	<b>065-4080</b>	214 / 214
500-530+1000-1060	99.8 / 99.5		<b>065-5103-i0</b>	<b>065-5103</b>	214 / 214

Size: **76.2 × 12.7 mm**

Wavelength, nm	R, % (s+p)/2		Catalogue number		Price, EUR
	AOI=0° / AOI=45°		AOI=0°	AOI=45°	AOI=0° / AOI=45°
390-410+780-820	99.8 / 99.5		<b>067-4080-i0</b>	<b>067-4080</b>	321 / 321
500-530+1000-1060	99.8 / 99.5		<b>067-5103-i0</b>	<b>067-5103</b>	321 / 321

### RELATED PRODUCTS

Laser Line and Dual Laser Line Mirrors of other wavelengths  
See page 1.17



Prisms  
See page 1.38

Kinematic Mirror/Beamsplitter Mounts 840-0056  
See page 8.66

