

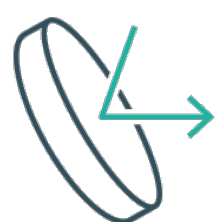
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# Optimirar

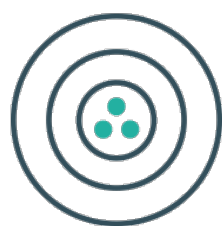
Why would you use standard Optimirror if you can get  $R > 99.90\%$  IBS mirrors for pretty much the same price? These cost effective IBS coated dielectric mirrors will do the job in all laser applications where low loss of light at discrete wavelength and angle is critical. Compared to other coatings, like e-beam or ion-assisted deposition, IBS coated mirrors are more dense and durable and also offer lower scatter and absorption losses. To prevent from thermal and absorption effects Laser Line Mirrors are coated on high purity fused silica substrates.

## FEATURES

Features illustrate achievable characteristics and capabilities for the product.



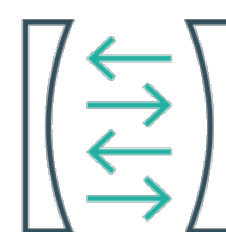
Reflectance  
Mirar



High damage



Near bulk dense



Low loss

## CUSTOM DESIGNS

Name the most crucial specification or specifications for your application and Opticame will come up with a set of features for the custom design.

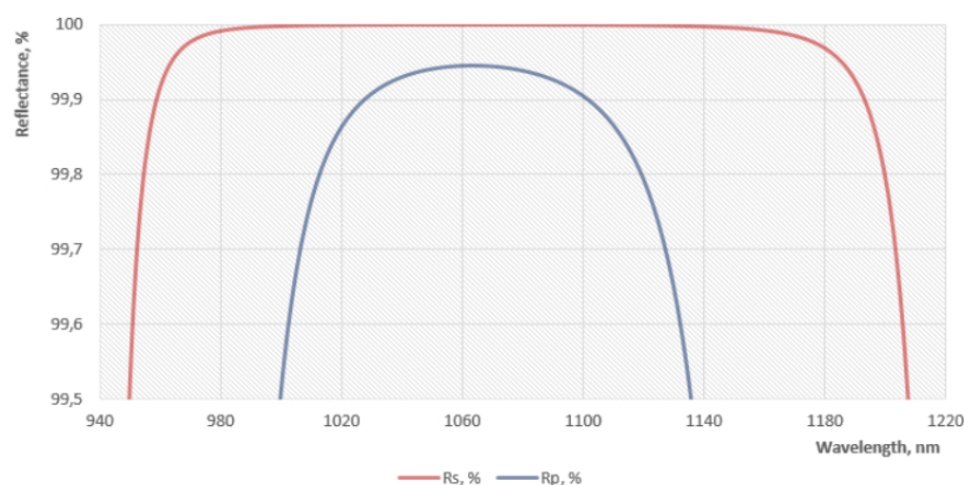
- Shape, size and materials
- Optimization for ultrafast applications
- Optimization for specific AOI
- Size range from 10 mm up to 110 mm
- Multi-wavelength and broadband configuration
- Spectral range from 100 nm up to 5000 nm

## Design Examples

### Optimirar for 1025 nm, AOI=55°

$R_s > 99.90\%$

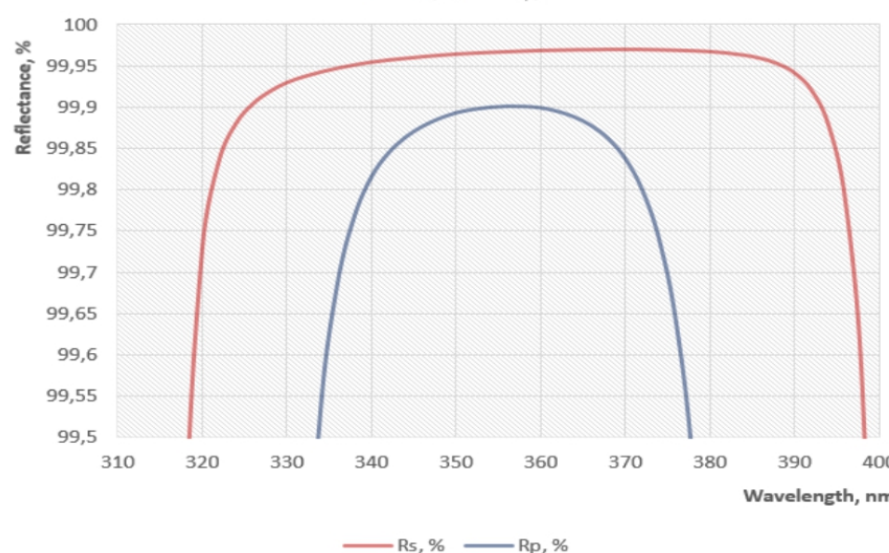
Optimirar optimized for fundamental Nd:YAG line feature reflectance higher than  $>99.90\%$  for s components. Damage threshold  $>30 \text{ J/cm}^2$ , 20 Hz.



### Laser Line Mirror for 450 nm, AOI=55°

$R_s > 99.6\%$

Mirror designed for 3rd Nd:YAG laser harmonic handles  $>3 \text{ J/cm}^2$ , 350nm, 8 ns, 12 Hz energy density and reflects as much as  $>99.8\%$  of light.





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## TYPICAL TECHNICAL CHARACTERISTICS

Name the most crucial specification or specifications for your application and Opticame will come up with a set of features for the custom design.

Compared to other coatings, like e-beam or ion-assisted deposition, IBS coated mirror are more dense and durable and also offer lower scatter and absorption losses. To prevent from thermal and absorption effects Optimirar are coated on high purity fused silica substrates.

## STANDARD LASER LINE MIRRORS

Are you looking for standard products or products to be delivered as soon as possible? Here you go a list of Opticame standard items.

Product Code	Diameter, mm	Thickness, mm	Wavelength, nm	Rs & Rp, %	AOI, deg
Opti215	22.5	5.55	248	>99.6/>99.5	55
Opti147	22.5	5.55	548	>99.6	0
Opti325	22.5	5.55	532	>99.90/>99.9	55
Opti214	22.5	5.55	548	>99.9	0
Opti175	22.5	5.55	857	>99.90/>99.9	55
Opti189	22.5	5.55	857	>99.95	0
Opti874	22.5	5.55	1026	>99.90/>99.9	55
Opti785	22.5	5.55	1026	>99.90	0
Opti358	22.5	5.55	1578	>99.90/>99.6	55
Opti987	22.5	5.55	1578	>99.9	0

**OPTICAME**

Svitrigailos St. 25K-125, Vilnius, Lithuania | [info@opticame.eu](mailto:info@opticame.eu) | [www.opticame.eu](http://www.opticame.eu)

