

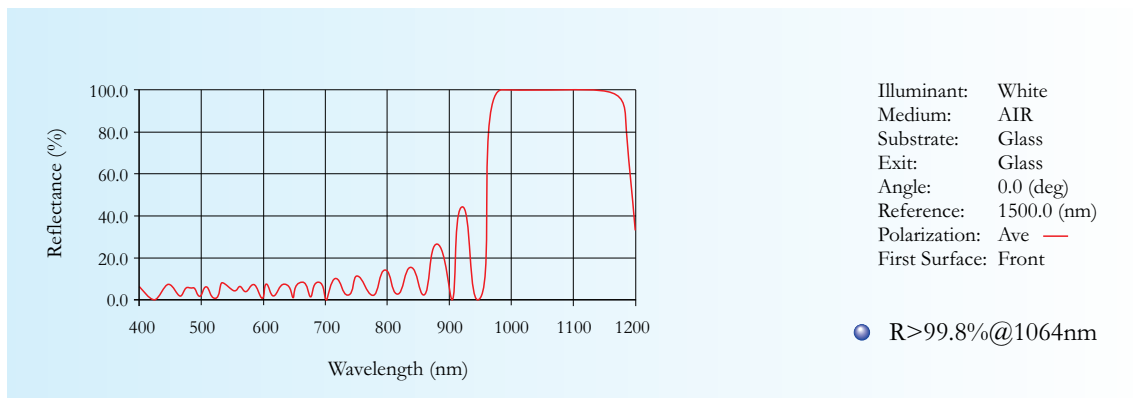
High Reflective Coatings

Now PHOTOP can provide all kinds of high reflective coatings as follows:

- Dielectric High Reflective Coatings
- Metallic High Reflective Coatings
- Diode Pumped Laser Optics Coatings

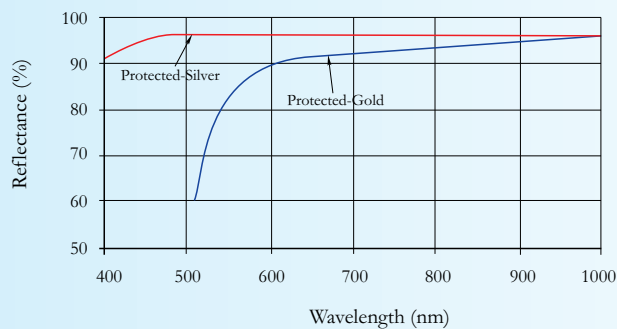
Dielectric High Reflective Coatings (DHR):

DHR coating is designed to produce very high reflection (more than 99.8% at designed wavelength). They are generally used in a single wavelength laser cavity where the lowest cavity loss at a center wavelength is essential. PHOTOP can provide such coating with center wavelength from 250 to 2200nm according to customer's requirement.



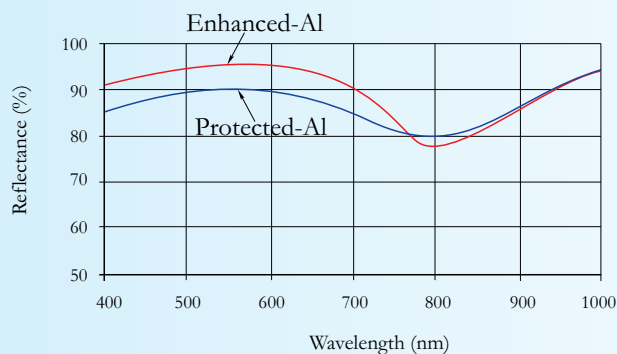
Metallic High Reflective Coatings (MHR):

PHOTOP provides metallic high reflective coatings by material of Au, Ag, Al, Cr, and Ni-Cr. Their reflectivity is not higher than dielectrics HR coatings, but their HR spectrum can be over near-UV, visible and near-IR. These coatings are applied to where a consistent high reflection in a wide spectral rang is necessary. In order to prevent these metallic coatings from oxidization, these coatings have been deposited on a layer of dielectrics coating.



Illuminant: White
 Medium: AIR
 Substrate: Glass
 Exit: Glass
 Angle: 22.5 (deg)
 Reference: 550.0 (nm)
 First Surface: Front

- $R_{avg} > 95\%$ @450-12000nm (Protected-Silver)
- $R_{avg} > 98\%$ @2000-12000nm (Protected-Gold)

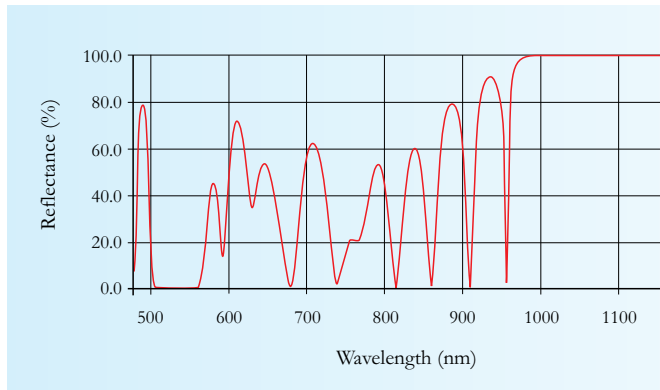


Illuminant: White
 Medium: AIR
 Substrate: Glass
 Exit: Glass
 Angle: 22.5 (deg)
 Reference: 550.0 (nm)
 First Surface: Front

- $R_{avg} > 87\%$ @400-1200nm (Protected-Al)
- $R_{avg} > 93\%$ @400-1200nm (Enhanced-Al)

Diode Pumped Laser Optics Coatings (DPC):

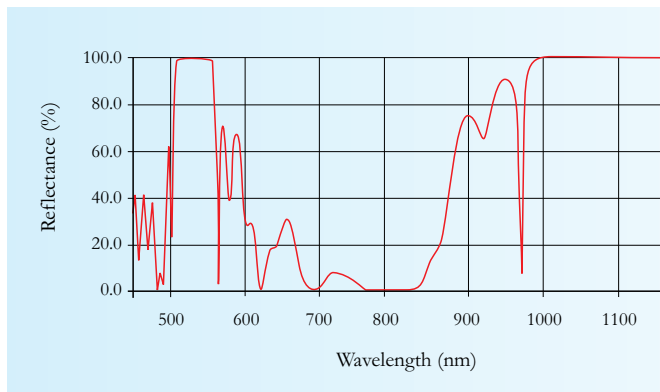
PHOTOP provides the following coatings for the Nd-Laser applications. These coatings are deposited on substrates of BBO, KTP, Nd:YVO₄, Nd:YAG and BK7 and mainly used to Nd Laser and their harmonic generation.



Illuminant: White
 Medium: AIR
 Substrate: KTP
 Exit: KTP
 Angle: 0.0 (deg)
 Reference: 1230.0 (nm)
 Polarization: Ave —
 First Surface: Front

HR@1064nm&HT@532nm on KTP

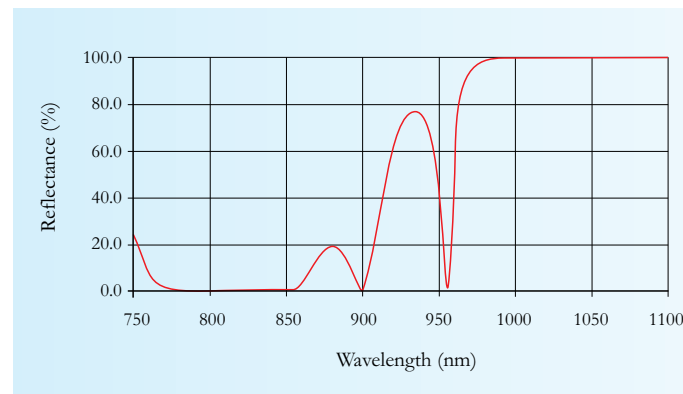
- R>99.8%@1064nm
- R<5.0%@532nm



Illuminant: White
 Medium: AIR
 Substrate: Nd:YVO₄
 Exit: Nd:YVO₄
 Angle: 0.0 (deg)
 Reference: 1555.0 (nm)
 Polarization: Ave —
 First Surface: Front

HR@1064nm&532nm, HT@808nm on Nd:YVO₄

- R>99.8%@1064nm
- R>95.0%@532nm
- R<5.0%@808nm



Illuminant: White
 Medium: AIR
 Substrate: Nd:YVO₄
 Exit: Nd:YVO₄
 Angle: 0.0 (deg)
 Reference: 1310.0 (nm)
 Polarization: Ave —
 First Surface: Front

HR@1064nm&HT@808nm on Nd:YVO₄

- R>99.8%@1064nm
- R<5.0%@808nm