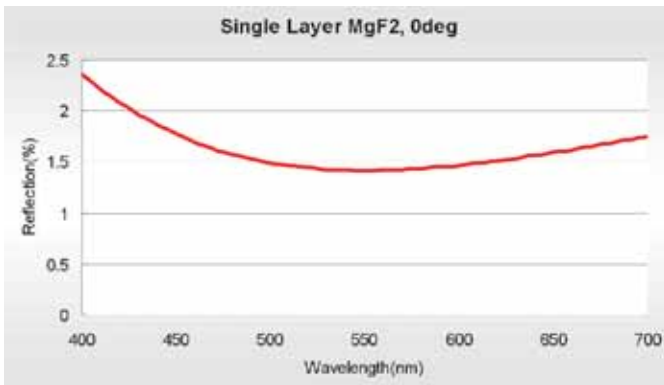


Coating

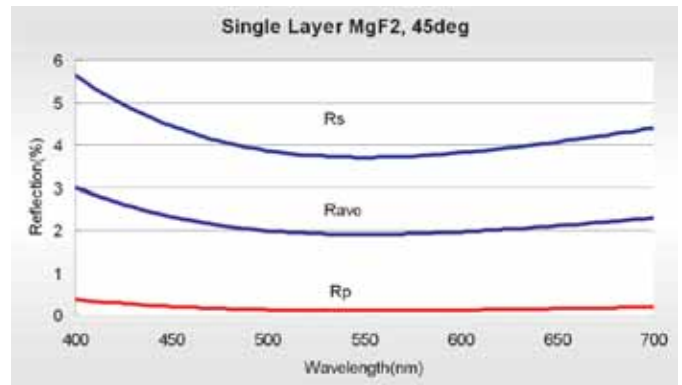
Coating

Union Optic not only provides various kinds of optical components, we can also make various types of optical coatings. The following is a list of the coating we can do:

Single Layer MgF₂ Coating

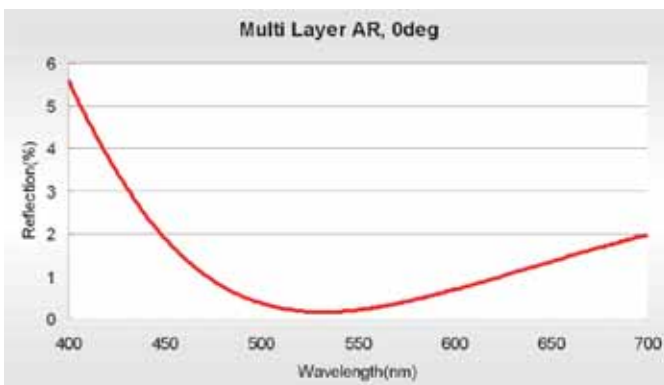


$R < 1.5\%$ @ central wavelength

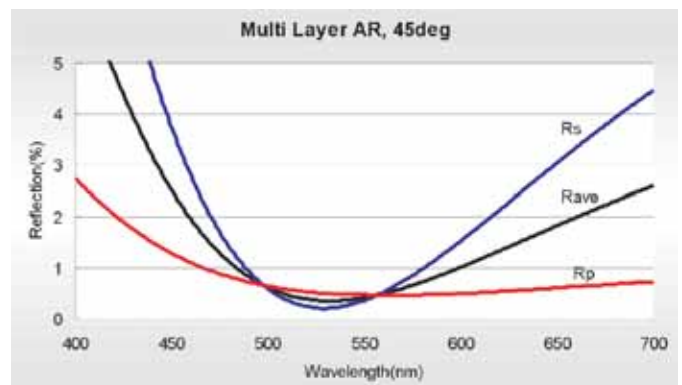


$R_{ave} < 2.0\%$ @ central wavelength

Multi Layer Anti-Reflective Coating

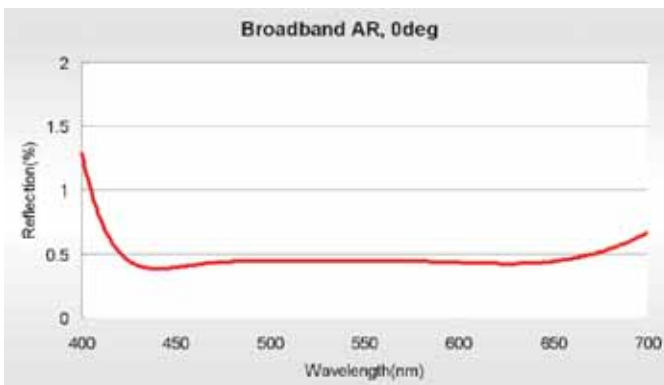


$R < 0.25\%$ @ central wavelength

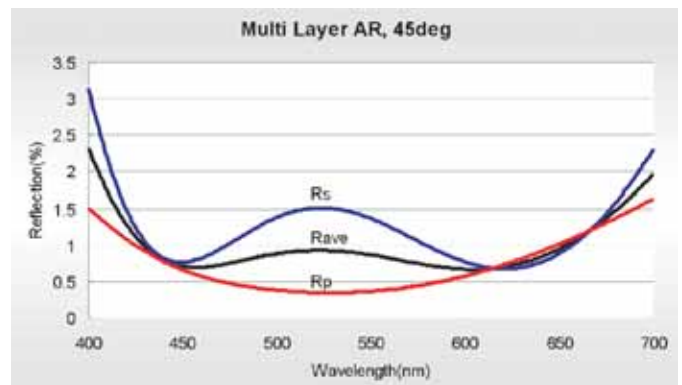


$R_{ave} < 0.5\%$ @ central wavelength

Broadband Anti-Reflective Coating



$R < 0.5\%$ @ 450-650nm



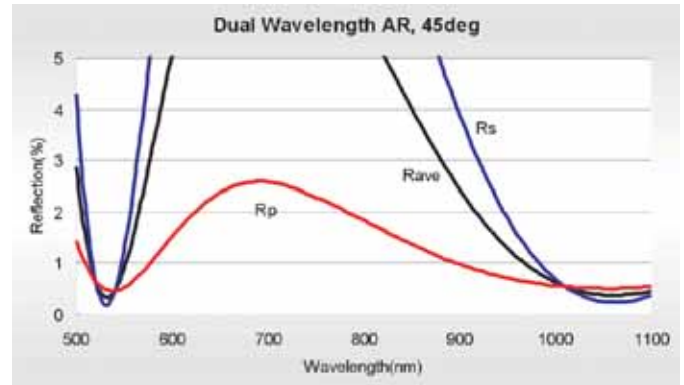
$R_{ave} < 1.0\%$ @ 450-650nm

Coating

Dual Wavelength Anti-Reflective Coating

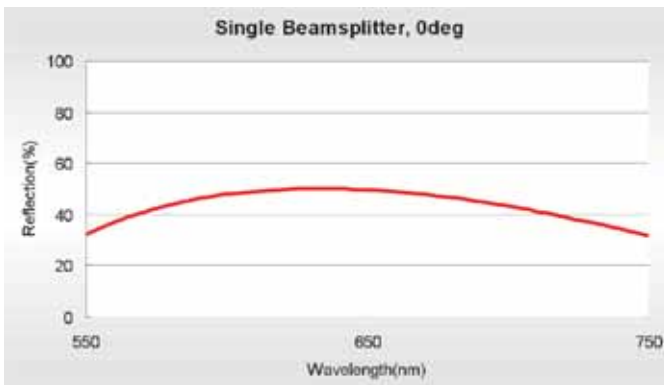


$R < 0.25\% @ 1064\text{nm}$, $R < 0.5\% @ 532\text{nm}$

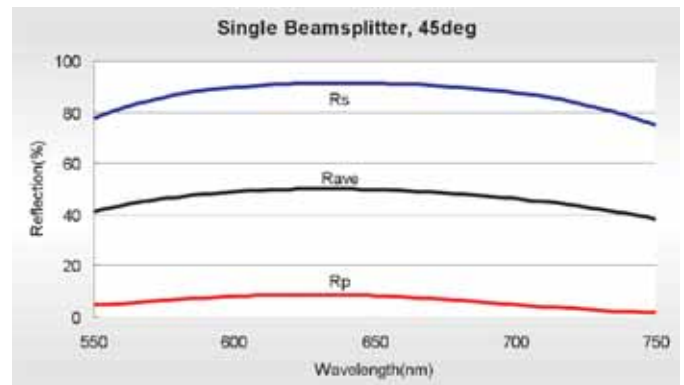


$R_{ave} < 0.5\% @ 1064\text{nm}$, $R_{ave} < 1\% @ 532\text{nm}$

Single Wavelength Beamsplitter Coating

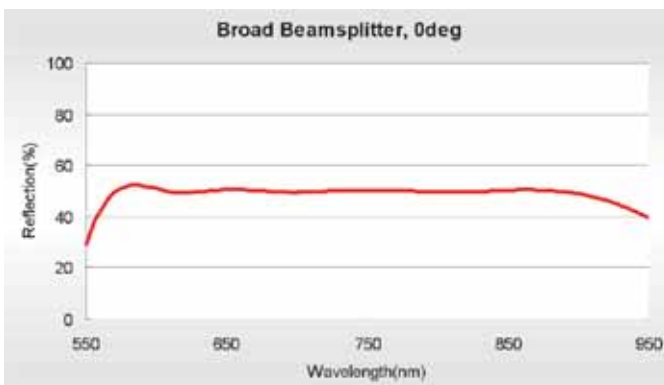


$R = 50\% \pm 5\% @ 633\text{nm}$

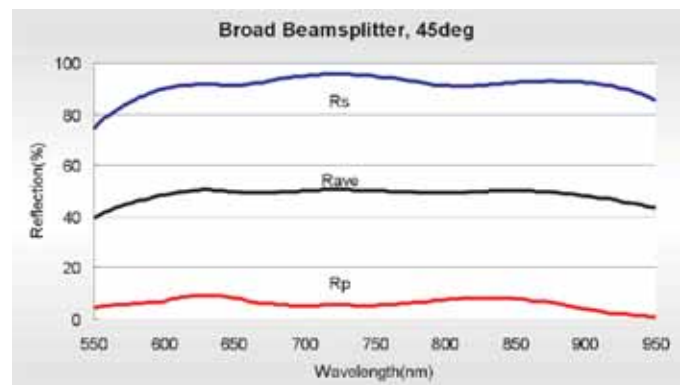


$R_{ave} = 50\% \pm 5\% @ 633\text{nm}$

Broadband Beamsplitter Coating



$R = 50\% \pm 5\% @ 650-900\text{nm}$

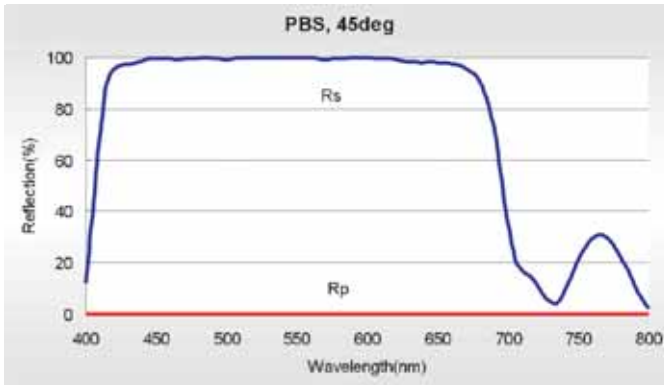


$R_{ave} = 50\% \pm 5\% @ 650-900\text{nm}$

Coating

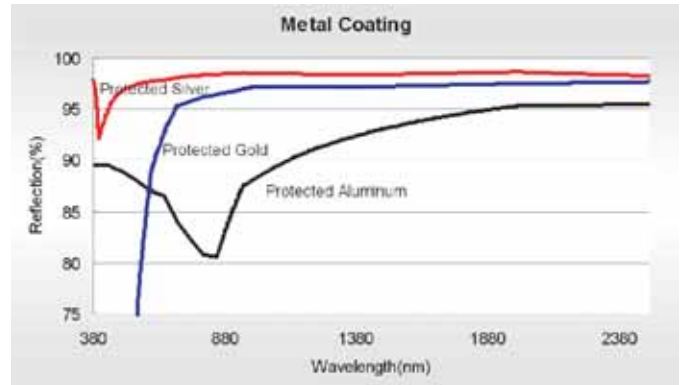
Coating

Polarization Beamsplitter Coating



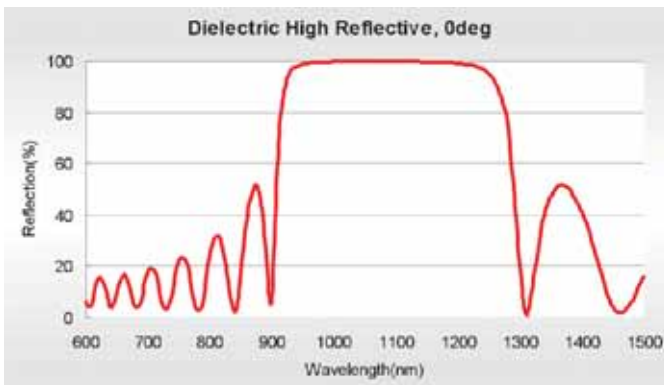
$T_p > 95\%$, $T_s < 1\%$ @450-650nm
 $R_p < 5\%$, $R_s > 99\%$ @450-650nm

Metal Coating

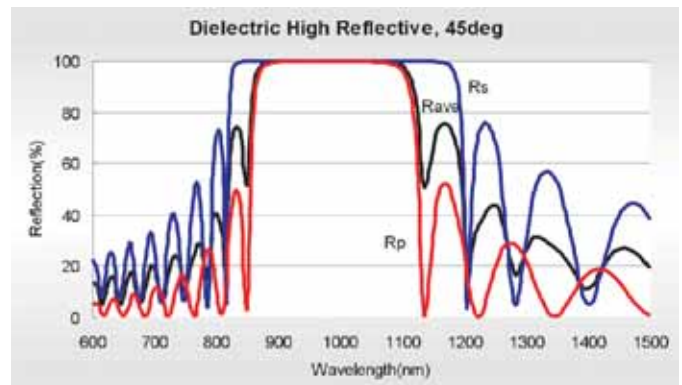


$R > 87\%$ @400-1200nm, Protected Aluminum
 $R > 95\%$ @400-12000nm, Protected Silver
 $R > 98\%$ @2000-12000nm, Protected Gold

Dielectric High Reflective Coating



$R > 99.5\%$ @1064nm



$R_{ave} > 99\%$ @1064nm

Note: Besides above listed coatings, we can also provide other coatings upon your request.