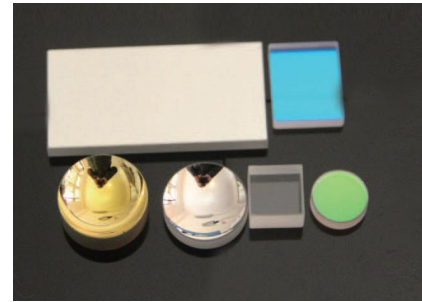


Mirrors

Mirrors are used to fold, bend and focus optical beams, They are usually processed into round, rectangle. Other shapes of mirror are available upon your request. Some mirrors need to be glued onto a piece of specially sized and shaped metal to fit for mechanical assembling. The actual reflecting surface of the glued mirror is a thin coating of silver, gold or aluminum on glass.

Optical mirrors are designed to reflect light for a variety of applications, including beam steering, interferometry, imaging, or illumination. Optical mirrors are used in a wide range of industries, such as life sciences, astronomy, metrology, semiconductor, or solar.



► Metallic Mirrors

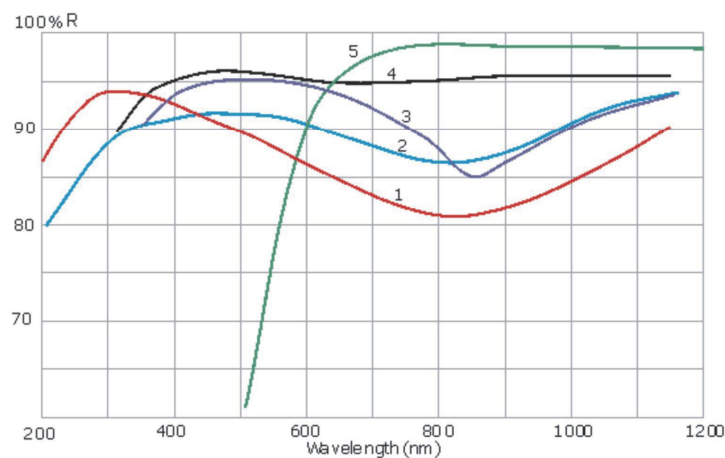
Metallic mirrors represent a good mixture of performance and value. These broadband coatings are relatively insensitive to wavelength, angle of incidence, and polarization. However high-energy levels should be avoided.

Hontec Optics provides metallic high reflective coatings made of Au,Ag,Al,Cr or Ni-Cr. These coatings are applied where a consistent high reflection over a wide spectral range is necessary. Their reflectivity is not higher than dielectrics HR coatings, but their HR spectrum can cover the near-UV,visible and near-IR. In order to prevent these metallic coatings from oxidization, these coatings have dielectric overcoat .

Protected Aluminum—For general broadband use, a protected aluminum coating offers the best option. A SiO coating is used to protect the delicate aluminum coating, making it suitable for laboratory and industrial use. This coating gives a reflectivity that most closely matches the reflection of a bare aluminum coating: $R_{avg} > 87\%$ @400-1200nm.

UV Enhanced Aluminum and Vis Enhanced Aluminum —Aluminum coated mirrors are cost effective and offered in a variety of sizes. Bare aluminum is extremely delicate and susceptible to damage. A protective overcoat is layered over the aluminum to make it damage resistant. Our UV Enhanced coating is made by using an overcoat of MgF2 which is transparent in the UV allowing $R_{avg} > 85\%$ from 200nm to 700nm

Protective Silver and Protective Gold also are available upon request! **Protected Silver:** $R_{avg} > 95\%$ @450-12000nm. **Gold** is the most efficient reflective coating throughout the entire IR range. Gold coatings provide a surface that may be easily cleaned while providing 98% @2000-12000nm average reflectance throughout the IR region.



1. UV Enhanced AL
2. Protected AL
3. VISEnhanced AL
4. Protected Silver
5. Protected Gold