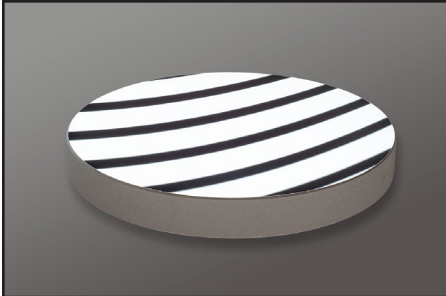




Ultra-Wide Broadband Dielectric Mirror

Technical Data Sheet

ISO 9001:2015 Certified • SBA Registered Small Business • ITAR Registered • Made in the USA



Key Features:

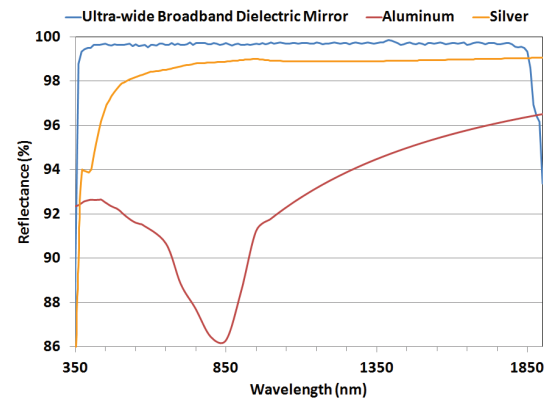
- High performance with >99.5% average reflectivity
- Ultra-wide spectral range from 350 to 1800nm
- Wide angle of incidence range:
 - 0-30°
 - 30-50°
 - Custom optimization for specific AOI available upon request
- Custom sizes available
- Surface flatness $\frac{1}{4}\lambda$ standard
- Coating on custom concave (pictured above) and convex substrates available
- High physical durability
- Temperature and humidity stability

Applications:

- Astronomy
- Beam steering
- Low-light applications
- Solar collectors
- Any optical system requiring high efficiency across a broad spectral range

The Ultra-Wide series is Omega's most advanced and highest-performing broadband dielectric mirror, exhibiting uniformly high reflectivity across a range from UV to NIR.

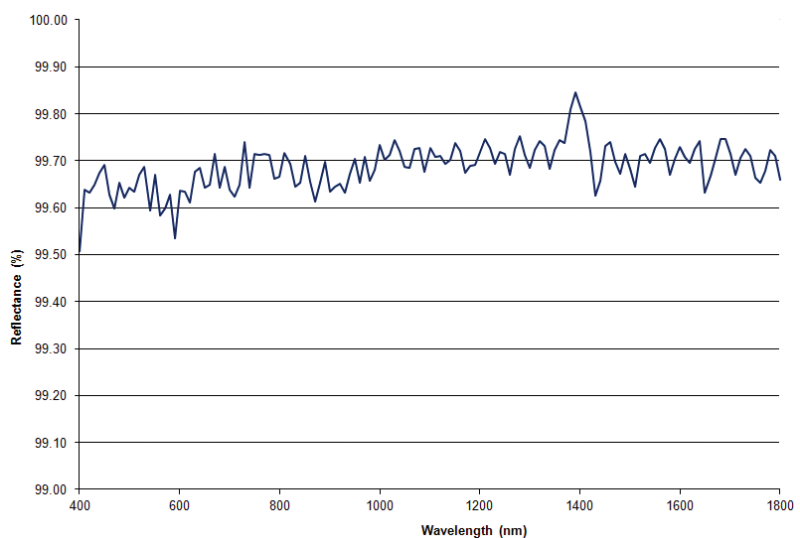
Dielectric mirrors have many advantages over metallic coatings, including environmental stability, durability, and consistently higher reflectivity across a broader range of wavelengths. Omega's latest ultra-wide broadband mirror extends that range further than ever, while offering the highest performance on the market today.



Comparison of Aluminum, Silver, and Omega's ultra-wide broadband dielectric mirrors.

Two general designs allow a wide range of acceptance angles, but custom designs optimized for maximum performance within a specific range are also possible. These mirrors are produced using Omega's plasma-assisted reactive magnetron sputtering process for excellent uniformity and durability.

Please contact us for a quotation in standard or custom sizes.



NIST reflectance measurement (99.0-100%) at 0.1° AOI