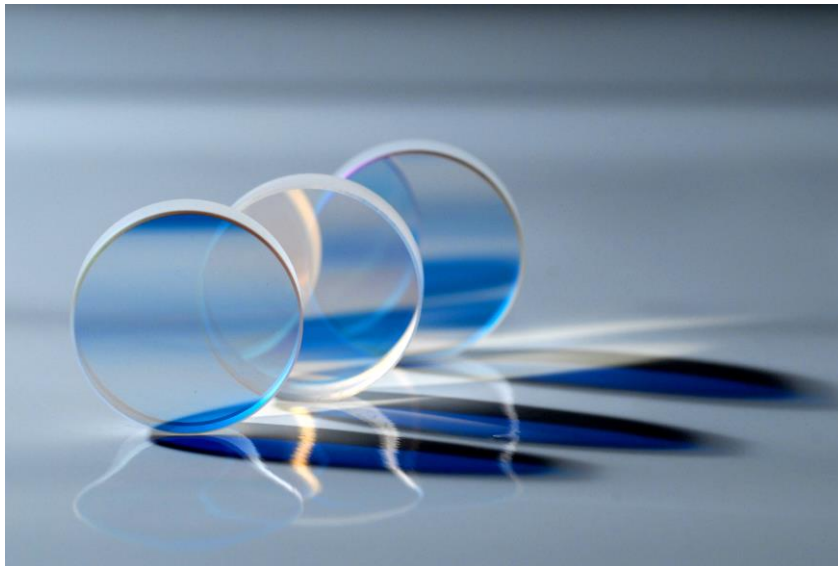


Precision Reflectometer and Loss Meter

Our reflectometer uses the extreme sensitivity of cavity ring-down spectroscopy to quantify the losses of advanced optical coatings down to 5 ppm. As a typical application the device can characterize supra-mirrors with up to 99.9995 % reflectivity.

Cavity ring-down spectroscopy measures optical losses by the decay of the energy stored inside a cavity. The technique reaches unrivalled sensitivity, because losses are experienced with each round trip inside the cavity over and over again. Smaller losses lead to longer intra-cavity dwell time thereby automatically increasing measurement precision.



Highlights:

- Reflectivity measurements between 99 and 99.9995 %
various angles of incidence: 0-45°
s and *p*-polarization
- Antireflective coating characterization between 0.0005 and 1 %
- Simple and reproducible alignment
- Available wavelengths:
808 nm
1030 nm
other wavelengths upon request
- Real time acquisition:
Complete measurements within seconds