

## FR-Focusing Module: 150 $\mu$ m spot size module

**FR-Focusing Module** is an accessory for optical measurements on coatings where a small (<150 $\mu$ m) spot size is required. The particular module is fully compatible with all FR-pRo tools operating in Vis spectral range and be easily mounted on the reflection probe by the user.

### Applications

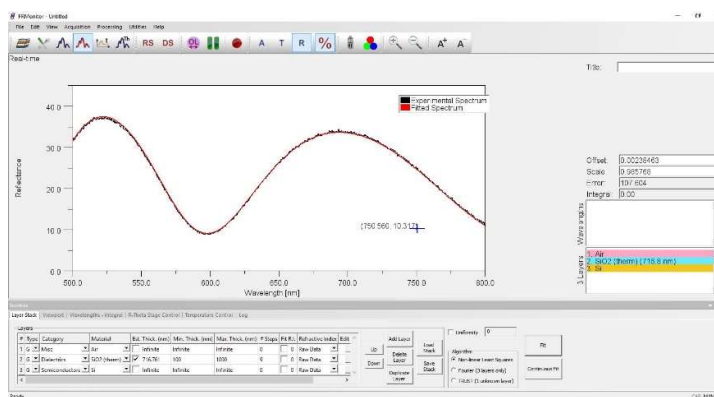
- Characterization of areas with small size or patterned areas
- Rough coatings
- Uneven samples
- Scattering samples

### Features

- Type: Triplet Achromatic Lens
- Wavelength range: 400-700nm
- Diameter: 12mm
- Focal Length: 20mm
- Spot size: < 150 $\mu$ m
- Mounting: Secure and precise mounting on the reflection probe



The **FR-Focusing Module** is easily attached on the reflection probe of FR-pRo tool and cover the visible range (380-700nm wavelength). In the standard configuration, the spot size becomes <150 $\mu$ m in diameter and allows for the characterization of coatings with moderate roughness. Additional configurations can be provided upon request.



Thickness measurement of SiO<sub>2</sub> thin film on Silicon substrate.  
Thickness: 716.8nm.