

OFR 90

Reflectance Measuring Head



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Product Information



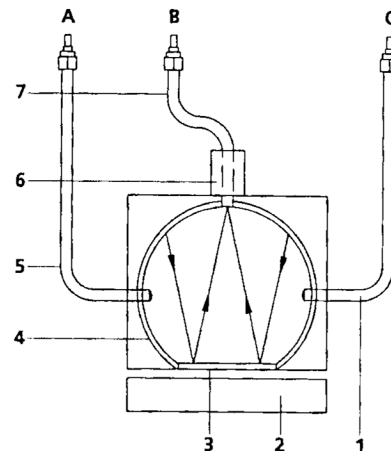
Applications

The OFR 90 Measuring Head was specially designed for non-contact reflection measurements of clear and scattering samples (e.g. window glass). It is suitable for color measurements and for NIR reflection measurements as well.

Function

The sample (2) is diffusely illuminated through an Ulbricht integrating sphere (4). For this, the light of either a halogen or xenon lamp is transmitted to the OFR 90 Color Measuring Head through a fiber bundle (1). Optionally, a halogen lamp can be used in place of the fiber bundle (1) to directly illuminate the sphere and thus increase the light intensity. The light reflected by the inside wall of the sphere is guided to the reference spectrometer through another fiber (5). The light to be measured is imaged onto optical fiber (7) by a 2:1 imaging optics (6). This fiber is connected to the sample spectrometer. The optical fibers used are quartz fiber bundles. The Ulbricht integrating sphere is protected against contamination by a BK7 glass disk (3).

- 1 Fiber bundle
- 2 Sample
- 3 Glass disk
- 4 Ulbricht integrating sphere
- 5 Optical fiber
- 6 2:1 imaging optics
- 7 Optical fiber
- A LL connector to reference spectrometer
- B LL connector to sample spectrometer
- C LL connector to lamp



Specifications

Type	Ulbricht sphere, measuring head for non-contact reflectance measurement
Illumination	diffuse
Viewing	0° / 2:1 image scale
Sphere diameter	Æ 60 mm
Effective measuring aperture	Æ 15 mm
Light source	integrated halogen lamp (version-H) or external xenon flash lamp
Wavelength range	380 - 950 nm (400 - 2200 nm option)

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