

Reflectance and Transmittance Measurement Systems

Achieve accurate and repeatable optical measurements

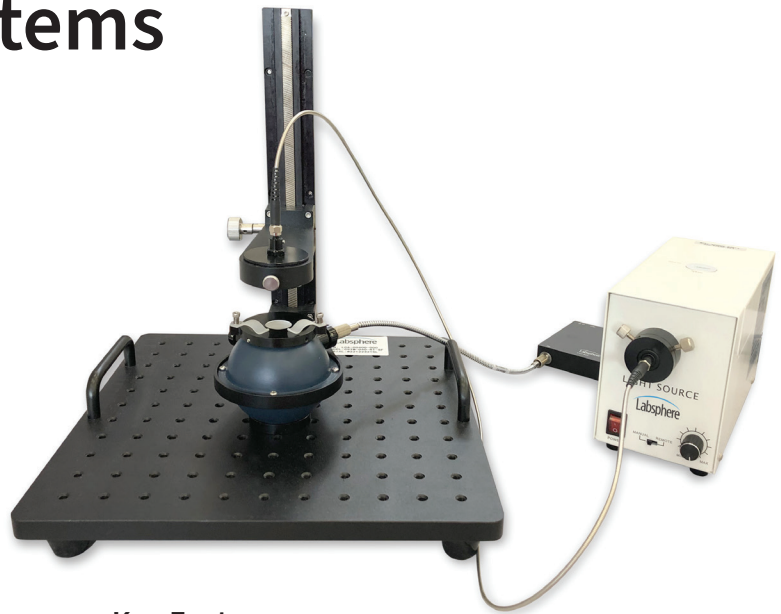
Welcome to the forefront of precise spectral reflectance and transmittance measurements with flexible innovative systems designed for practical analysis. Our systems combine reliability with ease of use to empower researchers, engineers, and professionals across industries.

The systems are engineered for versatility and reliability, making them suitable for a wide range of applications and environments. Whether you're in research, development, or quality control, our solutions empower you to achieve accurate and repeatable optical measurements.

Discover the perfect combination of components to suit your measurement requirements. Each system is carefully curated to deliver performance and usability, backed by Labsphere's commitment to excellence in optical instrumentation.

Applications:

- **Materials Science:**
Characterize coatings, films, and surfaces for optical properties.
- **Biotechnology:**
Analyze bio-materials, bio-films, and cellular structures with precision.
- **Environmental Monitoring:**
Assess light absorption and scattering in environmental samples.
- **Industrial Quality Control:**
Ensure consistent optical quality in manufacturing processes.



Key Features:

- **Fiber Light Source:**
 - Our fiber light source delivers stable broadband and near-collimated illumination, ensuring consistent results across samples and references.
- **Spectrometer:**
 - The included spectrometer provides high-resolution spectral analysis, allowing for VIS-NIR characterization of test samples.
- **Integrating Spheres:** Choose from our range of reflectance and transmittance integrating spheres tailored to your specific measurement needs:
 - **Single Beam Reflectance Integrating Sphere:** Ideal for measuring reflectance properties with a single beam setup, offering simplicity and accuracy in reflective analysis.
 - **Dual Beam Reflectance Measurement Integrating Sphere:** Enables substitution error correction between test sample and reference standard spectral reflectance offering measurements of a broad range of spectral reflectance with a single reference.
 - **Dual Beam Reflectance and Transmittance Measurement Integrating Sphere:** Designed for comprehensive analysis, this sphere allows for measurement of both reflectance and transmittance from a single test bench, providing a complete understanding of light interaction with test samples.

Models and Descriptions

RSA-FO-150-800-S	150 mm Single Beam Reflectance Sphere Accessory, with FBS-150-S 150W QTH Single Fiber Source, CDS-800 Spectrometer, and RTS-010 Reflectance Transmittance Software. Reflectance Standards sold Separately
RSA-FO-50-DB-800	50 mm Dual Beam Reflectance Accessory, CDS-800 Spectrometer, SRS-99-010 Diffuse Reflectance Standard Kit, and RTS-010 Reflectance Transmittance Software
RSA-FO-TW-76-800-S	50 mm Dual Beam Reflectance and Transmittance Accessory, with FBS-150-S 150W QTH Single Fiber Source, CDS-800 Spectrometer, SRS-99-010 Diffuse Reflectance Standard, and RTS-010 Reflectance Transmittance Software

Ordering Information and Specifications

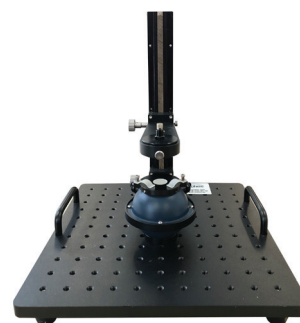
Model Number:	RSA-FO-150-800-S	RSA-REF-50-DB-800	RSA-FO-TW-76-800-S
Order Number:	AS-03248-000	AS-03249-000	AS-03250-000
Integrating Sphere:	RSA-FO-150 150 mm Single Beam Reflectance Sphere Accessory	RSA-REF-50-DB 50 mm Dual Beam Reflectance Accessory	RSA-FO-TW-76 76 mm Dual Beam Reflectance and Transmittance Accessory
Light Source:	FOL-150-S	Integrated	FOL-150-S
Spectrometer:	CDS-800	CDS-800	CDS-800
Reference Standard:	Optional*	SRS-99-010	SRS-99-010
Software:	RTS-010	RTS-010	RTS-010
Spectral Range:	~ 360 to 1000 nm	~ 360 to 1000 nm	~ 360 to 1000 nm
Reflectance Geometries:	8/H, Specular included or excluded	D/8	8/H, Specular included or excluded 0/H
Transmittance Geometry:	n/a	n/a	Normal Incidence
Light Source:			Fiber with SMA
Sample Collection:	Sphere Wall	Sample	Sample
Reference Collection:	n/a	Sphere Wall	Sphere Wall
Bulb Life:	200 hrs.	900 hrs	200 hrs
Bulb CCT:	3200K	3100K	3200K



RSA-FO-150
Fiber Optic Single Beam
Reflectance Spectroscopy
Accessory



RSA-REF-50-DB
Dual Beam
Reflectance Spectroscopy
Accessory



RSA-FO-TW-76
Reflectance/Transmittance
Sphere Tower

* Recommended Reference Standard Kits:

AS-01163-060 RSS-040-010

AS-01163-160 RSS-080-010