

# I 1000 AND I 2000 AVERAGE SPECTRAL INTENSITY HEADS

Expand the performance of your Labsphere spectrometer with these spectral intensity heads



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## RELIABLE

Labsphere's I 1000 Condition B and I 2000 Condition A & B average intensity heads are designed to position packaged LEDs for CIE average intensity as defines by CIE conditions A and B. The I 2000 can be converted between condition A and B with minimal effort. The unique design ensures repeatable and reproducible measurements.

The active areas are Spectralon® integrating spheres with a 1 cm<sup>2</sup> near cosine receiver port. This geometry omits non-uniformity errors associated with diffuser type receivers. An SMA connector allows connection via an optical fiber to any of your Labsphere spectrometers. The base consists of a stable tripod with levered legs that allows you to adjust the load devices to angles that suit your needs.

## FEATURES:

Improve spatial collection uniformity and accuracy  
Measurements conform to internationally accepted standards

Complete solution for spectral intensity

Fast, easy and repeatable alignment

Small footprint for a clutter-free workspace

User calibratable

Robust design

Expand usability of your Labsphere Light measurement Package

## BEST FOR MEASURING:

Packaged LEDs

Small light sources

## COMPATIBLE

Labsphere's I 1000 and I 2000 are compatible with any of Labsphere's spectrometers, any of the LS series of LED sockets, and the LSA 3000 Goniometer.

Combined with Labsphere's spectrometers and light measurement software, the I 1000 and I 2000 can be used to measure spectral radiant intensity, luminous intensity, chromaticity, color, and color rendering properties of packaged LEDs. They can be calibrated by the user with Labsphere's IES 1000 intensity standard, and LightMtrX-SPEC software and spectrometer.

The robust design of the I 1000 and I 2000 with only one accessible port allows for quick, repeatable results. The small footprint of the heads allows for the user to maintain a clutter-free workspace.



I 1000 AND I 2000 WITH COMPATIBLE LABSPHERE COMPONENTS

# Specifications

## Part Number

I 1000 Spectral Intensity Head Condition B:

I 2000 Spectral Intensity Head Condition A & B:

## Order Number

AS-02700-100

AS-02700-316

## Component Properties and Performance

	I 1000	I 2000
Measurement Geometry	Condition B	Condition A and B
Solid Angle	0.1 sr	0.01 sr
Measurement Distance	10 cm	10 cm and 31.6 cm
Receiver Area	1 cm <sup>2</sup>	1 cm <sup>2</sup>
Collection Optics	Near Cosine Spectralon Integrating Sphere	Near Cosine Spectralon Integrating Sphere
Fiber Connector	SMA	SMA
Alignment	Ring collar	Ring collar
Finish	Black Anodized	Black Anodized and White
Weight	2.10 lbs (0.95 kg)	2.78 lbs (1.26 kg)
Dimensions (W x D x H)	7.8 x 7.1 x 2.8 in (20 x 18 x 7 cm)	7.8 x 15.3 x 3.5 in (20 x 39 x 9 cm)