

# UMBB-100

<https://www.gigahertz-optik.com/en-us/product/umbb-100/>

**Product tags:**



## Description

### Modular integrating sphere concept

The [modular integrating sphere concept](#) from Gigahertz-Optik offers a high flexibility level when it comes to individual configuration of integrating spheres. In addition to the various components such as port frames, baffles and sockets that can be directly mounted onto the integrating sphere, numerous other accessories are offered for configuration of application-ready integrating spheres and integrating sphere measurement systems.



*Hollow sphere with Ø 100 mm for the construction of integrating balls*

### Base sphere with 100mm / 4 inch diameter

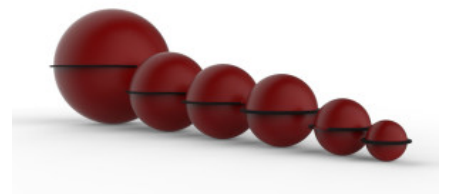
The starting point of each individually configured integrating sphere is a base sphere. The UMBB-100 basic sphere offers an internal diameter of 100 mm / 4 inches. The base sphere can be configured with sphere assemblies to the desired integrating sphere.



*UMBB-100 base sphere*



*UMBB-100 base sphere, open half shell*



*The UMBB spheres are available in following diameters (versions)  
UMBB-100, UMBB-150, UMBB-210,  
UMBB-250, UMBB-300 and  
UMBB-500*

### Reflective coating made of barium sulfate

The UMBB-100 is coated with a diffusely reflective coating made of barium sulfate. Gigahertz-Optik uses its self-manufactured ODP97 color for the coating. The multilayer coating guarantees excellent diffuse reflective

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properties over the entire usable spectral range.

## Complementary products

Gigahertz-Optik offers a wide range of port adapters, sphere accessories, radiation detectors and light meters which can be assembled for various applications. Such applications include integrating sphere detectors, integrating sphere light sources and integrating spheres for material properties.

## Specifications





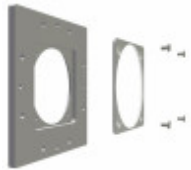
### Specification

Sphere diameter	100 mm / 4 inch
Coating	ODP97
Port frames up to size	UMPF-1.5
	38,1 mm
Machined ports up to size	75mm
Dimensions	see download section
Mounting	Bores

## Downloads

Type	Description	File-Type	Download
Datasheet	Dimensions UMBB-100	pdf	<a href="https://www.gigahertz-optik.com/assets/Uploads/ulbrichtkugel-umbb-100.pdf">https://www.gigahertz-optik.com/assets/Uploads/ulbrichtkugel-umbb-100.pdf</a>
Datasheet	Dimensions UMBB-100-S25	pdf	<a href="https://www.gigahertz-optik.com/assets/Uploads/ulbrichtkugel-umbb-100-s25.pdf">https://www.gigahertz-optik.com/assets/Uploads/ulbrichtkugel-umbb-100-s25.pdf</a>
Datasheet	Dimensions UMBB-100-M	pdf	<a href="https://www.gigahertz-optik.com/assets/Uploads/ulbrichtkugel-umbb-100-m.pdf">https://www.gigahertz-optik.com/assets/Uploads/ulbrichtkugel-umbb-100-m.pdf</a>
Datasheet	Dimensions UMBB-100-BT	pdf	<a href="https://www.gigahertz-optik.com/assets/Uploads/ulbrichtkugel-umbb-100-bt.pdf">https://www.gigahertz-optik.com/assets/Uploads/ulbrichtkugel-umbb-100-bt.pdf</a>

## Configurable with

Product Name	Product Image	Description	Go to product
UMPF		Port frames for the hollow spheres of the UM series modular construction integrating spheres. Features: Different diameters. Frame with V-groove for accessory mount.	<a href="https://www.gigahertz-optik.com/en-us/product/umpf/">https://www.gigahertz-optik.com/en-us/product/umpf/</a>
UMMP ports		Ports for the hollow spheres of the UM series modular construction integrating spheres. Features: Ports without port frames for small wall thickness.	<a href="https://www.gigahertz-optik.com/en-us/product/ummp/">https://www.gigahertz-optik.com/en-us/product/ummp/</a>
UMPB		Detector baffle for the hollow spheres of the UM series modular construction integrating spheres. Features: Schading of ports to ports, ports to light sources, ports to detectors etc. Barium sulfate or synthetical coating.	<a href="https://www.gigahertz-optik.com/en-us/product/umpb/">https://www.gigahertz-optik.com/en-us/product/umpb/</a>
UMSS		Bench-top and post stands for the hollow spheres of the UM series modular construction integrating spheres. Features: different sizes. Aluminum with hard natural anodized surface.	<a href="https://www.gigahertz-optik.com/en-us/product/umss/">https://www.gigahertz-optik.com/en-us/product/umss/</a>
UMPF-LSOK30		Port frame for use with the lamp LS-OK30. Features: Optional diffuse window for use between LS-OK30 and the sphere.	<a href="https://www.gigahertz-optik.com/en-us/product/umpf-lsok30/">https://www.gigahertz-optik.com/en-us/product/umpf-lsok30/</a>

## Purchasing information

Article-Nr	Modell	Description
<b>Product</b>		
15296410	UMBB-100	UMBB-100 base sphere

## Contact, Calibration, Service & Support

We are known worldwide for excellent technical consulting and after sales support. Contact us to find together the best solution for you. Our services:

- Technical Consulting & Sales
- After-Sales Support
- Calibrations & Re-Calibrations ([ISO/IEC 17025 Calibration Services](#), [factory calibration](#), [Calibration of Third-Party Products](#))
- Repairs & Updates
- OEM & Feasibility Consulting of Customized Solutions

[Send us your inquiry](#) or contact us by phone or e-mail. We would welcome your feedback too or review us on [Google](#).

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