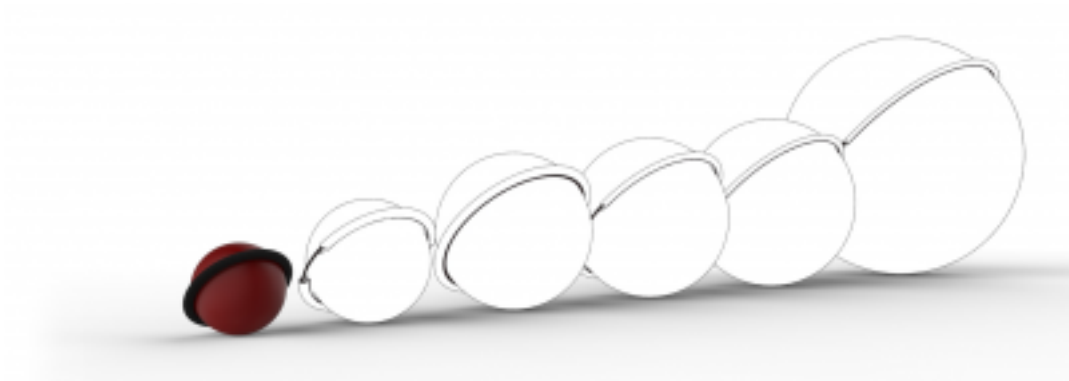


# UMBB-100

<http://www.gigahertz-optik.de/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.

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

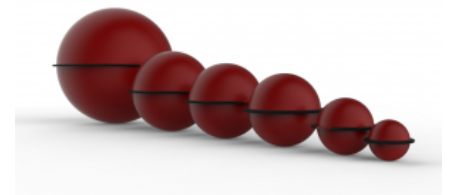
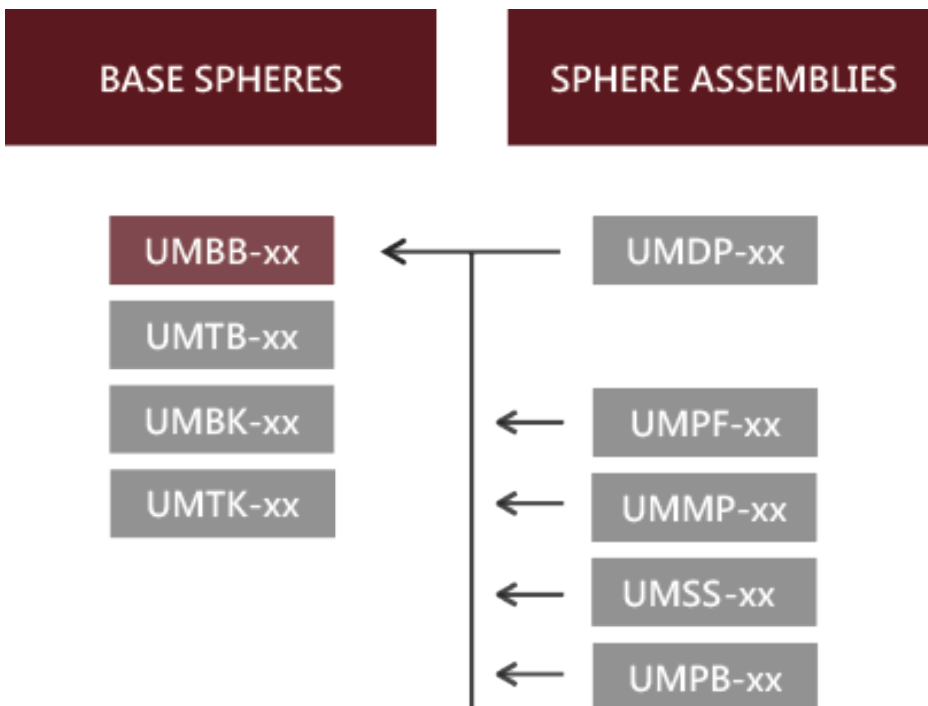
The starting point of each individually configured integrating sphere is a base sphere. The UMBB-100 basic sphere offers an internal diameter of 100 mm / 4 inches. The base sphere can be configured with sphere assemblies to the desired integrating sphere.



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

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	
Internal diameter	100 mm / 4 inch
Coating	ODP97
Port frames up to size	UMPF-1.5
Free diameter	38,1 mm
Ports up to size	75mm
Dimensions	see download section
Mounting method	Bores

## Downloads

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

## Configurable with

Produktname	Product Image	Description	Show 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="http://www.gigahertz-optik.de/en-us/product/UMPF">http://www.gigahertz-optik.de/en-us/product/UMPF</a>
UMPP		Port plugs for the port Frames of the UM series modular construction integrating spheres.  Features: Level equal to the hollow sphere surface. Barium sulfate or synthetical coating. For use with UMPF port frames.	<a href="http://www.gigahertz-optik.de/en-us/product/UMPP">http://www.gigahertz-optik.de/en-us/product/UMPP</a>
UMPR		Port reducer for the port frames of the UM series modular construction integrating spheres.  Features: Closure surface equal to the hollow sphere surface. Barium sulfate or synthetical coating. Trough-holes or knife-edge with different diameters. For use with UMPF port frames.	<a href="http://www.gigahertz-optik.de/en-us/product/UMPR">http://www.gigahertz-optik.de/en-us/product/UMPR</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="http://www.gigahertz-optik.de/en-us/product/UMMP">http://www.gigahertz-optik.de/en-us/product/UMMP</a>
UMDP		Detector ports for the hollow spheres of the UM series modular construction integrating spheres.  Features: Mounts for attaching detectors, fiber optic connectors and fiber pipes.	<a href="http://www.gigahertz-optik.de/en-us/product/UMDP">http://www.gigahertz-optik.de/en-us/product/UMDP</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="http://www.gigahertz-optik.de/en-us/product/UMPB">http://www.gigahertz-optik.de/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="http://www.gigahertz-optik.de/en-us/product/UMSS">http://www.gigahertz-optik.de/en-us/product/UMSS</a>
VL-1101 + UMPA-0.5-11-RD Detector head		Module detector head for the measurement of photopic illuminance in Lux [lx].  Features: UMPA adapter for usage with integrating spheres, for the usage with optometers and amplifiers, calibration certificate	<a href="http://www.gigahertz-optik.de/en-us/product/VL-1101uUMPA-05-11-RD">http://www.gigahertz-optik.de/en-us/product/VL-1101uUMPA-05-11-RD</a>

Produktname	Product Image	Description	Show product
UFC-11		<p>Fiber adapter for use with UP and UM type integrating spheres.</p> <p>Features: SMA, FC, SC and ST connectors.</p>	<a href="http://www.gigahertz-optik.de/en-us/product/UFC-11">http://www.gigahertz-optik.de/en-us/product/UFC-11</a>

## Purchasing information

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