

UMBB-300

<http://www.gigahertz-optik.de/en-us/product/UMBB-300>

Product tags:



Description

Modular integrating sphere concept

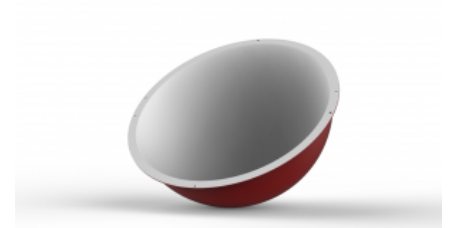
The [modular integrating sphere concept](#) from Gigahertz-Optik offers a high flexibility level when it comes to individual configuration of integrating spheres. In addition to the various components such as port frames, baffles and sockets that can be directly mounted onto the integrating sphere, numerous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



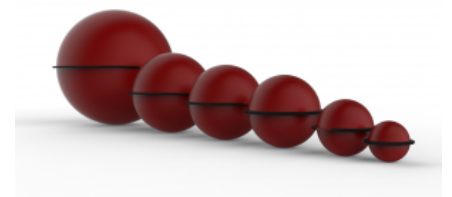
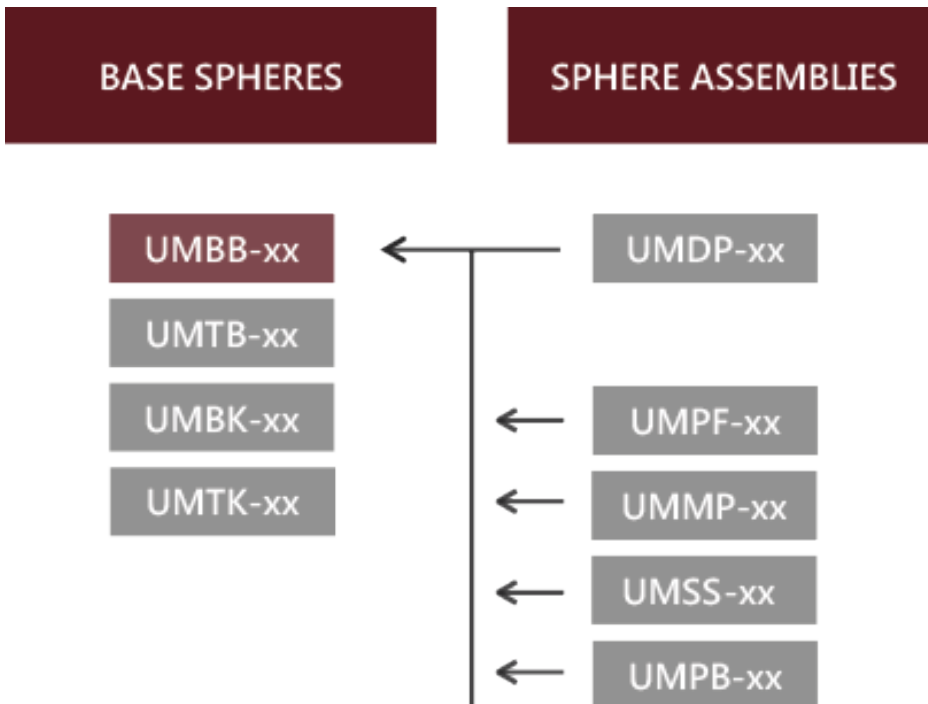
UMBB-300 base sphere

Base sphere with 300 mm / 12 inch diameter

The starting point of each individually configured integrating sphere is a base sphere. The UMBB-300 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-300 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-300 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.





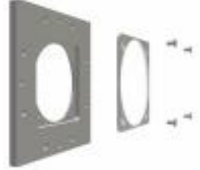



Specifications

Specification	
Sphere diameter	300 mm / 12"
Mounting	Bores
Coating	ODP97
Port frames up to size	UMPF-5.0
	127 mm
Diameter	max. port size: UMMP-200mm
Dimensions	see download section



Downloads


Type	Description	File-Type	Download
Datasheet	Dimensions UMBB-300	pdf	http://www.gigahertz-optik.de/assets/Uploads/100930-umbb-300.pdf
Datasheet	Dimensions UMBB-300-S10	pdf	http://www.gigahertz-optik.de/assets/Uploads/100930-1-umbb-300-s10.pdf
Datasheet	Dimensions UMBB-300-M	pdf	http://www.gigahertz-optik.de/assets/Uploads/100930-2-umbb-300-m.pdf
Datasheet	Dimensions UMBB-300-BT	pdf	http://www.gigahertz-optik.de/assets/Uploads/100930-3-umbb-300-bt.pdf

Configurable with

Produktname	Product Image	Description	Show product
UMPF		<p>Port frames for the hollow spheres of the UM series modular construction integrating spheres.</p> <p>Features: Different diameters. Frame with V-groove for accessory mount.</p>	http://www.gigahertz-optik.de/en-us/product/UMPF
UMDP		<p>Detector ports for the hollow spheres of the UM series modular construction integrating spheres.</p> <p>Features: Mounts for attaching detectors, fiber optic connectors and fiber pipes.</p>	http://www.gigahertz-optik.de/en-us/product/UMDP
UMPB		<p>Detector baffle for the hollow spheres of the UM series modular construction integrating spheres.</p> <p>Features: Shielding of ports to ports, ports to light sources, ports to detectors etc. Barium sulfate or synthetical coating.</p>	http://www.gigahertz-optik.de/en-us/product/UMPB
UMSS		<p>Bench-top and post stands for the hollow spheres of the UM series modular construction integrating spheres.</p> <p>Features: different sizes. Aluminum with hard natural anodized surface.</p>	http://www.gigahertz-optik.de/en-us/product/UMSS
UMPF-LSOK30		<p>Port frame for use with the lamp LS-OK30.</p> <p>Features: Optional diffuse window for use between LS-OK30 and the sphere.</p>	http://www.gigahertz-optik.de/en-us/product/UMPF-LSOK30
UMPP		<p>Port plugs for the port Frames of the UM series modular construction integrating spheres.</p> <p>Features: Level equal to the hollow sphere surface. Barium sulfate or synthetical coating. For use with UMPF port frames.</p>	http://www.gigahertz-optik.de/en-us/product/UMPP
UMPR		<p>Port reducer for the port frames of the UM series modular construction integrating spheres.</p> <p>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.</p>	http://www.gigahertz-optik.de/en-us/product/UMPR
UMMP ports		<p>Ports for the hollow spheres of the UM series modular construction integrating spheres.</p> <p>Features: Ports without port frames for small wall thickness.</p>	http://www.gigahertz-optik.de/en-us/product/UMMP

Produktname	Product Image	Description	Show product
UMPA-0.5/11		<p>Port adapter for use with UMPF-0.5 port frame of the UM series modular construction integrating spheres.</p> <p>Features: To attach TD-11, PD-11 or VL-11 detectors and UFC-11 fiber connectors. Optional diffuser window.</p>	http://www.gigahertz-optik.de/en-us/product/UMPA-0.5-11
UMPA-0.5/Fxx		<p>Port adapter for use with UMPF-0.5 port frame of the UM series modular construction integrating spheres.</p> <p>Features: To attach fiber bundles up to 12.7mm dia. Adaptation by subsequent machining.</p>	http://www.gigahertz-optik.de/en-us/product/UMPA-0.5-Fxx
UMPA-1.0-SF port adapter		<p>Port adapter for use with UMPF-1.0 port frame of the UM series modular construction integrating spheres.</p> <p>Features: Holder with Slide & Fix fixture for port plugs, port reducers and samples.</p>	http://www.gigahertz-optik.de/en-us/product/UMPA-1.0-SF
UMPA-1.0/Fxx port adapter		<p>Port adapter for use with UMPF-1.0 port frame of the UM series modular construction integrating spheres.</p> <p>Features: To attach fiber bundles up to 24.4mm dia. Adaptation by subsequent machining.</p>	http://www.gigahertz-optik.de/en-us/product/UMPA-1.0-Fxx
UMPA-1.0/FAO		<p>Port adapter for use with UMPF-1.0 port frame of the UM series modular construction integrating spheres.</p> <p>Features: To attach fiber bundles, detectors and optics with angle alignment into the hollow sphere. Adaptation by subsequent machining.</p>	http://www.gigahertz-optik.de/en-us/product/UMPA-1.0-FAO
UMPA-1.0-LSOS1.0		<p>Port adapter for use with UMPF-1.0 port frame of the UM series modular construction integrating spheres.</p> <p>Features: Spreading disk adapter. For example, for attaching the light source LS-OS1.0.</p>	http://www.gigahertz-optik.de/en-us/product/UMPA-1.0-LSOS1.0
UMPA-1.5-HL-MB		<p>Port adapter for use with UMPF-1.5-HL port frame of the UM series modular construction integrating spheres.</p> <p>Features: To attach the LINOS Mikrobank from QIOPTIQ .</p>	http://www.gigahertz-optik.de/en-us/product/UMPA-1.5-HL-MB
UMPA-1.0-LGA-13		<p>Port adapter for use with UMPF-1.0 port frame of the UM series modular construction integrating spheres.</p> <p>Features: To attach light guides with 13mm mount from Instrument Systems.</p>	http://www.gigahertz-optik.de/en-us/product/UMPA-1.0-LGA-13
UMPA-2.0-HL-Fxx		<p>Port adapter for use with UMPF-2.0-HL port frame of the UM series modular construction integrating spheres.</p> <p>Features: To attach fiber bundles, detectors and optics with angle alignment into the hollow sphere. Universal adaptation by subsequent machining.</p>	http://www.gigahertz-optik.de/en-us/product/UMPA-2.0-HL-Fxx

Produktname	Product Image	Description	Show product
LS-OK30		<p>Light source for use with the UM series modular construction integrating spheres.</p> <p>Features: External source for LH-F series halogen lamps up to 100W. Diffuse reflector with synthetic coating. Fan for active air-flow lamp socket cooling.</p>	http://www.gigahertz-optik.de/en-us/product/LS-OK30
LS-OK30-VA		<p>Variable aperture for use with lamp LS-OK30.</p> <p>Features: High resolution manual drive.</p>	http://www.gigahertz-optik.de/en-us/product/LS-OK30-VA
LS-OK30-VAR-RS232		<p>Variable aperture for use with lamp LS-OK30.</p> <p>Features: High resolution stepping motor drive for remote control via RS232 interface.</p>	http://www.gigahertz-optik.de/en-us/product/LS-OK30-VAR-RS232
LS-OK30-FH		<p>Filter holder for use with lamp LS-OK30.</p> <p>Features: Housing for exchangeable filter mounts. For use with 50mm dia up to 3mm thick filter.</p>	http://www.gigahertz-optik.de/en-us/product/LS-OK30-FH
LS-OK30-HPA		<p>Neutral density filter for use with filter holder LS-OK30-FH.</p> <p>Features: Holes-pattern attenuators. No influence on the light spectrum and color temperature.</p>	http://www.gigahertz-optik.de/en-us/product/LS-OK30-HPA
LS-OK30-D65		<p>Day-light correction filter for use with filter holder LS-OK30-FH.</p> <p>Features: D65 correction of halogen lamps.</p>	http://www.gigahertz-optik.de/en-us/product/LS-OK30-D65
FWVA-170-6x2-RM		<p>Filter change wheel with variable aperture for use with lamp LS-OK30.</p> <p>Features: Up to six 2" dia filters High resolution variable aperture. Two stepping motor drives for remote control via RS232 interface.</p>	http://www.gigahertz-optik.de/en-us/product/FWVA-170-6x2-RM
LS-IS1.5		<p>Light source for use with the UM series modular construction integrating spheres.</p> <p>Features: Internal source for LH-F series halogen lamps up to 100W.</p>	http://www.gigahertz-optik.de/en-us/product/LS-IS1.5
LS-IS1.5-CFF		<p>Light source for use with the UM series modular construction integrating spheres.</p> <p>Features: Internal source for LH-F series halogen lamps up to 100W. Housing with cooling fins and fan.</p>	http://www.gigahertz-optik.de/en-us/product/LS-IS1.5-CFF

Produktname	Product Image	Description	Show product
LS-OS1.0		Light source for use with the UM series modular construction integrating spheres. Features: External source for LH-F series halogen lamps up to 20W.	http://www.gigahertz-optik.de/en-us/product/LS-OS1.0
LS-OS1.5-LED3		Light source for use with the UM series modular construction integrating spheres. Features: External lamp for up to seven LEDs of type Golden Dragon Osram. LEDs connected in line or in 3 groups. Fan for the heat sink.	http://www.gigahertz-optik.de/en-us/product/LS-OS1.5-LED3
LH-xxF		Halogen lamps. Features: For use with light sources and calibration standards. UV and UV-stop bulbs. Frosted and non-frosted. Pre-aged.	http://www.gigahertz-optik.de/en-us/product/LH-xxF
UFC-11		Fiber adapter for use with UP and UM type integrating spheres. Features: SMA, FC, SC and ST connectors.	http://www.gigahertz-optik.de/en-us/product/UFC-11
LS-OS1.5-LED1		Light source for use with the UM series modular construction integrating spheres. Features: External lamp for up to seven LEDs of type Golden Dragon Osram. LEDs connected in line or in 3 groups. Fan for the heat sink.	http://www.gigahertz-optik.de/en-us/product/LS-OS1.5-LED1

Purchasing information

Article-Nr	Modell	Description
Product		
100930	UMBB-300	UMBB-300 base sphere