UMTB-170

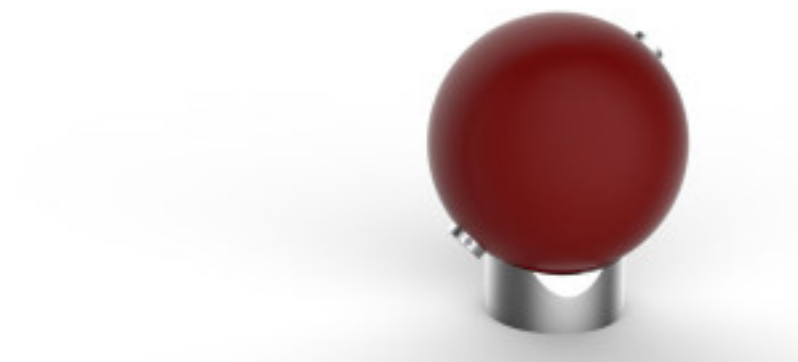https://www.gigahertz-optik.com/en-us/product/umtb-170/

Product tags:

Description

Modular integrating sphere concept

The modular integrating sphere concept from Gigahertz-Optik GmbH 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.
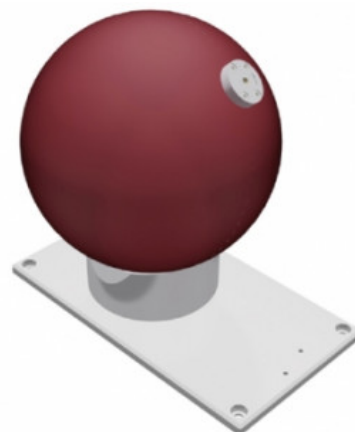

UMTB-170

Base sphere with 170mm / 6.7 inch diameter

The starting point of every individually configured integrating sphere is a base sphere. The UMTB-170 base sphere with an integrated socket has a 170mm (6.7 inches) internal diameter.

Reflective coating made of barium sulfate

The UMTB-170 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.

UMTB-170 with optional base plate.

Sphere ports with port frames

Sphere ports are usually designed with a port frame onto which the accessories can be mounted. Port frames with free ports with diameters ranging from 12.5 to 63.5mm are hereby offered for the UMTB-170.

Baffles

Baffles are placed between sphere openings or in front of detectors and light sources to prevent direct illumination. Different baffle designs and sizes are available.

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.
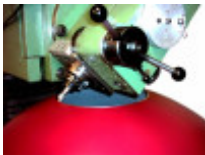
Specifications

Specification

Sphere diameter	170 mm / 6.7 inches
Socket	Integrated socket
Coating	ODP97
Port frames up to size	UMPF-2.5
	63,5 mm
Diameter	maximum port size: 100mm (UMMP)
Dimensions	see download section
UMTB-170-Z01	Base plate for the UMTB-170 with accessories such as the FW-170 filter wheels, LS-OK30 light sources, etc.
Dimensions	see download section

Downloads

Type	Description	File-Type	Download
Datasheet	Dimensions UMTB-170	pdf	https://www.gigahertz-optik.com/assets/Uploads/umtb-170.pdf
Datasheet	Dimensions UMTB-170-Z01	pdf	https://www.gigahertz-optik.com/assets/Uploads/umtb-z01.pdf

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.	https://www.gigahertz-optik.com/en-us/product/umpf/
UMMP ports		Ports for the hollow spheres of the UM series modular construction integrating spheres. Features: Ports without port frames for small wall thickness.	https://www.gigahertz-optik.com/en-us/product/ummp/
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.	https://www.gigahertz-optik.com/en-us/product/umpb/
FWVA-170-6×2-RM		Filter Change Wheel	https://www.gigahertz-optik.com/en-us/product/fwva-170-6×2-rm/

Purchasing information

Article-Nr	Modell	Description
Product		
15297534	UMTB-170	170mm dia hollow sphere with stand.
Accessories		
15298514	UMTB-170-Z01	Base plate for the UMTB-170 with accessories such as the FW-170 filter wheels, LS-OK30 light sources, etc.

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