

UPK-50-F

<https://www.gigahertz-optik.de/en-us/product/UPK-50-F>

Product tags:



Description

ODM98 integrating sphere for intensity, reflectance and transmittance measurement applications

The UPK-50-F integrating sphere with ODM98 coating is designed for universal use in light intensity, reflectance and transmittance measurement applications. The 50 mm diameter integrating sphere with 10 mm diameter measurement and two auxiliary ports in $\pm 8^\circ$ orientation to the measurement port offers high light throughput required in light sensitive applications within the spectral range from 250 nm to 2500 nm. Its unique collar baffle design greatly avoids direct illumination of the detector port from the light input port in a conventional 90° port position sphere design. The baffle also makes it possible to operate up to 4 detectors or fiber light guide connectors on the sphere at the same time. The detector ports provides an interface for direct mounting of Gigahertz-Optik's PD-11, TD-11 and VL-11 type light detectors and UFC-11 type fiber connectors.



UPK-50-F





Calibration

Gigahertz-Optik's calibration laboratory offers traceable spectral radiant power sensitivity calibration in the wavelength range from 250 nm to 1800 nm. For special cases please contact our sales team.

Specifications

General	
Short description	Integrating sphere for the configuration as reflection measurement device.
Main features	Compact integrating sphere with synthetic ODM98 coating. 10 mm measurement port. Two ports in $\pm 8^\circ$ orientation to the measurement port. Detectorport vor 11-type detectors and fiber connectors.
Measurement range	Sphere Diameter: 50 mm Measurement port: One. 10 mm diameter Baffle: Yes. Collar type Application ports: Two in $\pm 8^\circ$ orientation to the measurement port. With port plugs. Detector port: One. 11 mm Diameter. Optional two more Coating: ODM98
typical applications	Integrating sphere for the configuration for reflection measurements.
Calibration	-
Product	
Coating	ODM98
Sphere diameter	50 mm
Measurement Port Diameter	10 mm
Measurement Port Diameter	10 mm. Supplied with ODM98 coated plugs.
Detector port	1 x UP-DP-11 (PD-11, TD-11, VL-11, UFC-11) up to three more UP-DP-11 in $\pm 90^\circ$ position can optional supplied
Mounting	M6 and 1/4" threaded holes

Configurable with

Produktname	Product Image	Description	Show product
VL-1101		Photometric detector head with VL-11 mount. Features: modular detector for use with integrating spheres, front lenses etc. For use with optometers and signal amplifiers	https://www.gigahertz-optik.de/en-us/product/VL-1101
TD-11VL01		Photometric, temperature stabilized detector with DP-11 mount. Features: for use with integrating spheres, Operation temperature 50 °C, for use with optometers and signal amplifiers	https://www.gigahertz-optik.de/en-us/product/TD-11VL01
PD-11 series		Detector head with DP-11 mount. Features: modular detector for use with integrating spheres, front lenses etc, Si, SiLP, InGaAs, SiC, GaP photodiodes, for use with optometers and signal amplifiers	https://www.gigahertz-optik.de/en-us/product/PD-11-Serie
UFC-11		Fiber adapter for use with UP and UM type integrating spheres. Features: SMA, FC, SC and ST connectors.	https://www.gigahertz-optik.de/en-us/product/UFC-11

Purchasing information

Article-Nr	Modell	Description
Product		
15296144	UPK-50-F	Integrating sphere for reflexion, transmission and radiant power. 50 mm / ~ 2 inch hollow sphere made by ODM98. CNC machined housing. Five application ports, one detector port.