

UPK-50-F

<https://www.gigahertz-optik.com/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 | depends on configuration |
| 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 |
|----------|----------------------------|

Downloads

| Type | Description | File-Type | Download |
|---------|-------------|-----------|---|
| Drawing | UPK-50-F | pdf | https://www.gigahertz-optik.com/assets/Uploads/100908.pdf |

Configurable with

| Product Name | Product Image | Description | Go to product |
|--------------|--|---|---|
| UFC-11 |  | Fiber adapter for use with UP and UM type integrating spheres. Features: SMA, FC, SC and ST connectors. | https://www.gigahertz-optik.com/en-us/product/ufc-11/ |
| PD-11 Series |  | Detector head with DP-11 mount | https://www.gigahertz-optik.com/en-us/product/pd-11-serie/ |

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. |

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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