

# UPK-50-L

<https://www.gigahertz-optik.com/en-us/product/upk-50-l/>

**Product tags:**



## Description

### Compact ODM98 integrating sphere

The UPK-50-L integrating sphere is one of Gigahertz-Optik's compact size models with ODM98 coating. The 50 mm diameter integrating sphere with 10 mm diameter 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 3 detectors or fiber light guide connectors on the sphere at the same time (positioned at 9, 12 and 3 o'clock). 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.



#### 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.

UPK-50-L





## Specifications

| General                   |   |
|---------------------------|---|
| Short description         | Integrating sphere for the configuration as power measurement detector.   |
| Main features             | Compact integrating sphere with synthetic ODM98 coating. 10 mm measurement port. Detectorport for 11-type detectors and fiber connectors. |
| Measurement ranges        | Sphere Diameter: 50 mm  |
|                           | Measurement port: One. 10 mm diameter   |
|                           | Baffle: Yes. Collar type  |
|                           | Detector port: Three. 11 mm Diameter.   |
| Coating: ODM98            |   |
| Typical applications      | Integrating sphere detectors for laser power measurements.  |
| Calibration               | Optional calibration of the spectral radiant responsivity from 250 nm to 1800 nm.   |
| Product                   |   |
| Coating                   | ODM98   |
| Sphere diameter           | 50 mm   |
| Measurement Port Diameter | 10 mm   |
| Detector port             | 3x UP-DP-11 (e.g. PD-11, TD-11, VL-11, UFC-11)  |
| Mounting                  | M6 and 1/4" threaded holes  |

## Downloads

| Type    | Description | File-Type | Download  |
|---------|-------------|-----------|---|
| Drawing | UPK-50-L    | pdf       | <a href="https://www.gigahertz-optik.com/assets/Uploads/100907.pdf">https://www.gigahertz-optik.com/assets/Uploads/100907.pdf</a> |

## 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.  | <a href="https://www.gigahertz-optik.com/en-us/product/ufc-11/">https://www.gigahertz-optik.com/en-us/product/ufc-11/</a>           |
| 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 | <a href="https://www.gigahertz-optik.com/en-us/product/vl-1101/">https://www.gigahertz-optik.com/en-us/product/vl-1101/</a>         |
| TD-11VL01    |   | Photometric, temperature stabilized detector with DP-11 mount  | <a href="https://www.gigahertz-optik.com/en-us/product/td-11vl01/">https://www.gigahertz-optik.com/en-us/product/td-11vl01/</a>     |
| PD-11 Series |  | Detector head with DP-11 mount   | <a href="https://www.gigahertz-optik.com/en-us/product/pd-11-serie/">https://www.gigahertz-optik.com/en-us/product/pd-11-serie/</a> |

## Purchasing information

| Article-Nr     | Modell   | Description   |
|----------------|----------|---|
| <b>Product</b> |          |   |
| 15296143       | UPK-50-L | 50 mm integrating sphere. ODM98 coating. Three detector ports.      |
| 15296144       | UPK-50-F | 50 mm integrating sphere for reflection measurement. ODM98 coating. |
| <b>Options</b> |          |   |
| 15298480       | UP-DPP   | Optional port plug (if one of the three ports is not used)          |

## 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](#).

### Gigahertz Optik GmbH (Headquarter)

Tel.: +49 (0)8193-93700-0  
Fax: +49 (0)8193-93700-50  
[info@gigahertz-optik.de](mailto:info@gigahertz-optik.de)

An der Kaelberweide 12  
82299 Tuerkenfeld, Germany

### Gigahertz-Optik, Inc. (US office)

Phone: +1-978-462-1818  
[info-us@gigahertz-optik.com](mailto:info-us@gigahertz-optik.com)

Boston North Technology Park  
Bldg B - Ste 205  
Amesbury, MA 01913 USA