

ISS-8P-VA

<https://www.gigahertz-optik.com/en-us/product/iss-8p-va/>

Product tags:



Description

The uniform light source ISS-8P-VA is based on a ODM98 coating and offers an 19 mm light entrance port. Furthermore the system is equipped with a LS-OK30 light source and a manual aperture (LS-OK30-VA) for continuous intensity adjustment (luminance/radiance).

Intensity adjustment

With the help of the manual aperture the radiance/luminance of the sphere can be continuously adjusted to the desired level. A quality measure for the intensity adjustment is a constant color temperature and no change in the homogeneity of the light entrance port. Both are achieved by the ISS-8P-VA.

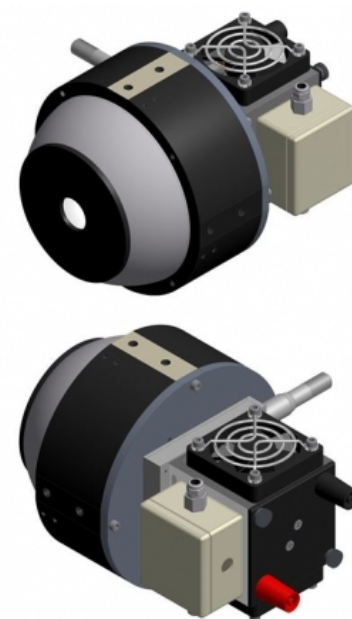
The light source can be equipped with LF-F or LH-F-UV quartz halogen lamps in the range of 5 W to 100 W. The power will be selected according to the needed radiance/luminance.

Calibration

A calibration with included calibration certificate (cd/m^2) and/or spectral radiance ($\text{W}/(\text{m}^2\text{sr})$) which is traceable to a national standard can be optionally purchased. The calibration is done by our internal calibration laboratory.

Option

For operation an optional quality current regulated power supply of the LPS series (e.g. [LPS-100](#)) can be used.



ISS-8P-VA

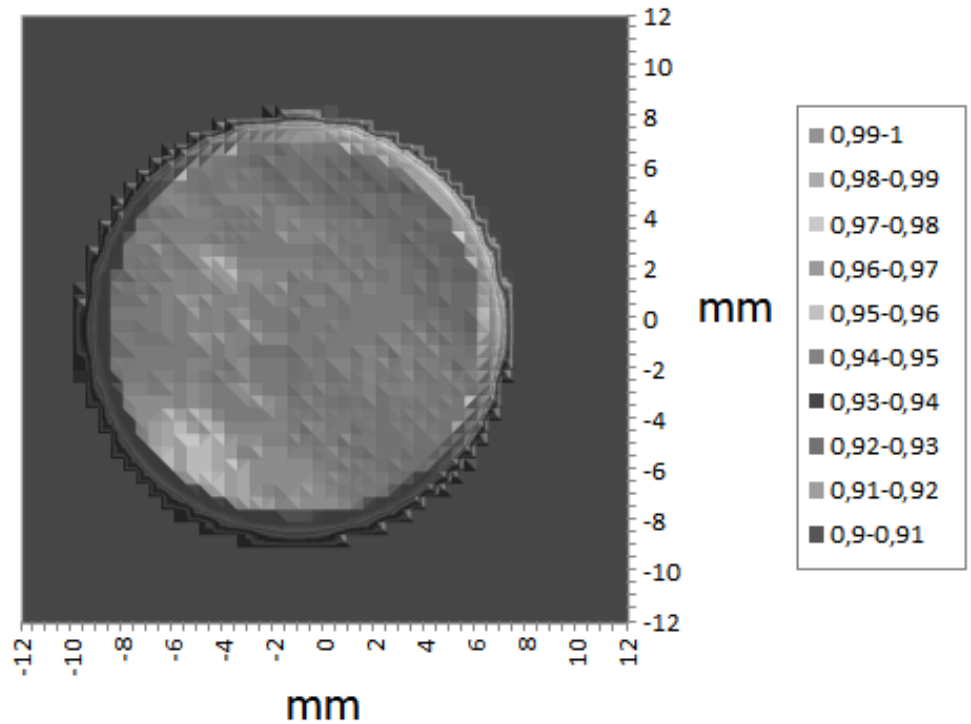
Specifications

General

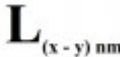


Short description	Integrating sphere source with 19 mm Diameter light output port. Tungsten halogen lamp up to 100 W. Manual control variable aperture.
Main features	Compact size. 19 mm Diameter light output port. Synthetic ODM98 coating of sphere and baffle. External lamp housing for tungsten halogen lamps up to 100 W. High Resolution manual control variable aperture.
Measurement range	(0 - 95000) cd/m^2 (at CCT 2960K with LH-100F-UV) (0 - 63000) cd/m^2 (at CCT 2856K with LH-100F-UV) $\Delta\text{CCT} = +20 \text{ K}$ (1 - 100 % intensity)
Typical applications	Uniform light source for pixel uniformity calibration and adjustment. High resolution variable intensity control.

Calibration	Luminance at 100 % intensity. Optional calibration of the spectral radiance (380 nm to 1100 nm). Calibration certificate with description of the calibration procedure, reference standards applied, traceability and calibration uncertainty.
Calibration	
Calibration uncertainty	luminance (cd/m ²): $\pm 3.5\%$ $u(k=2)$ color temperature [K]: $\pm 2\%$ $u(k=2)$
Specification	
Light Output Port	19 mm
Luminance	Range: Continuous adjustable (0 - 95000) cd/m ² (at CCT 2960K with LH-100F-UV) (0 - 63000) cd/m ² (at CCT 2856K with LH-100F-UV) VA 100 % open: 95000 cd/m ² (at CCT 2960K with LH-100F-UV) 63000 cd/m ² (at CCT 2856K with LH-100F-UV) VA 10 % open: 9500 cd/m ² (at CCT 2960K with LH-100F-UV) 6300 cd/m ² (at CCT 2856K with LH-100F-UV) Δ CCT = +10 K VA 1 % open: 950 cd/m ² (at CCT 2960K with LH-100F-UV) 630 cd/m ² (at CCT 2856K with LH-100F-UV) Δ CCT = +20 K VA <1 % open: Δ CCT = continues to change
Lamp Connection	Two Banana type plugs
Specifications	80 mm ODM speher with 19 mm light entrance port

Graphs



Configurable with

Product Name	Product Image	Description	Go to product
KLW-S3		Calibration of the spectral radiance. Features: Factory calibration	https://www.gigahertz-optik.com/en-us/product/klw-s3/
KLW-R3		Calibration of the radiance. Features: Factory calibration	https://www.gigahertz-optik.com/en-us/product/klw-r3/
ED-ISS-100-MD		Control electronic for integrating sphere sources	https://www.gigahertz-optik.com/en-us/product/ed-iss-100-md/

Purchasing information

Article-Nr	Modell	Description
Product		
15306649	ISS-8P-VA-100	Integrating sphere source for quartz halogen lamps equipped with 100 W. Manuel variable aperture for intensity regulation. Included are fan, power supply for the fan and banana plug connectors.

Article-Nr	Modell	Description
15306648	ISS-8P-VA-20	Integrating sphere source for quartz halogen lamps equipped with 20 W. Manuel variable aperture for intensity regulation. Included are fan, power supply for the fan and banana plug connectors.
15297929	ISS-8P-VA	Integrating sphere source for quartz halogen lamps equipped with 5 W to 100 W. Manuel variable aperture for intensity regulation. Included are fan, power supply for the fan and banana plug connectors.

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