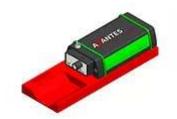
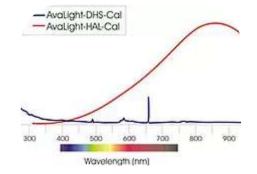


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AvaLight-HAL-CAL-Mini
NIST Traceable Calibrated Halogen Light Source





### AvaLight-HAL-CAL-Mini

Calibrating your spectrometer has never been easier - the AvaLight-HAL-CAL-Mini and Avalight-DH-CAL are NIST traceable calibrated light sources to measure absolute spectral intensity.

The AvaLight-HAL-CAL-Mini is a compact, affordable light source, and is calibrated for the visible range (350-1095nm). As an option, an extended calibration for the near infrared spectral range (1100-2500nm) can be ordered. It has a built in diffuser - a cosine corrector with SMA adapter - and comes with a calibration file in ASCII format. Calibration is simple a straight forward using the AvaSoft software.

The AvaLight-HAL-CAL-ISPxx-Mini is a special version of the Avalight-HAL-CAL-Mini, which enables coupling any of Avantes AvaSphere-xx-IRRAD integrating spheres to the lightsource (xx=30,50 or 80) for calibration. This source is supplied with a special bottom plate to stabilize the AvaSphere.

The Avalight-HAL-CAL-Mini and Avalight-HAL-CAL-ISPxx-Mini both include a power supply.

Key features....

- Field calibration
- Visible and optional NIR range
- Built-in diffuser
- Versatile

# AvaSphere-50-LS-HAL-CAL

For radiance calibration in the visible spectral range (360-1100nm), we offers the AvaSphere-50-LS-HAL-CAL.

This radiance calibration sphere is normally used to calibrate a spectrometer and a bare fibre with an SMA connector. This uniform source ensures that the fibre is homogeneously illuminated during calibration.

The AvaSphere-LS-HAL-CAL is supplied with a power supply and a CD-ROM with the calibration file in ASCII format.

Key features...

- Radiance calibration
- Visible range
- For homogeneous illuminated areas

## AvaLight-DH-CAL

For calibrations in the ultraviolet and visible range (200-1099nm), the AvaLight-DH-CAL is the best solution.

This source can be used with all AvaSpec spectrometers to calibrate for absolute spectral intensity, and is supplied with a built in diffuser (cosine corrector (CC-VIS/NIR) with SMA adapter) and a CD-ROM containing the calibration files in ASCII format.

Two calibration files are included - one for irradiance calibration over the full range (200-1099nm) and one over the visible and near infrared range (350-1099nm). For the first file, both the deuterium and the halogen bulb should be







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The AvaLight-DH-CAL-ISP-xx is a special version of these calibrated light sources, designed to facilitate coupling of the AvaSphere-xx-IRRAD integrating spheres to the light source (xx is 30, 50 or 80mm - internal sphere diameter).

The AvaLight-DH-CAL, AvaLight-DH-BAL-CAL and AvaLight-D-BAL-CAL all include a power supply.

# Key features....

- Flexible calibration
- Ultraviolet and visible range
- Built-in diffuser and cosine corrector

# Technical data

	AvaLight-HAL-CAL-Mini	AvaSphere-50-LS- HAL-CAL	AvaLight-DH-(BAL-)CAL
Calibration use	Irradiance μW cm-2 nm-1	Radiance µW sr-1 cm-2 nm-1	Irradiance μW cm-2 nm-1
Calibrated surface	CC-VIS/NIR or AvaSphere	Bare fiber	CC-UV/VIS or AvaSphere
Wavelength Range	350-1095 nm / 1100-2500 nm*	350-1095 nm / 1100-2500 nm*	200-1099 nm
Calibration Repeatability	± 0.5 %	± 0.5 %	±1.0 %
Calibration Relative Uncertainty to NIST standard	±9.5% (350-1100 nm)/±6.5% (1100-1950 nm)/±9.5% (1950-2500 nm)	±9.5% (350-1100 nm)	±10% (200-240 nm)/±9% (240-350 nm)/±10% (350-400 nm)/±9.5% (400-1100 nm)
Calibration valid for	60 hrs	60 hrs	60 hrs
Warm-up Time	Ca. 15 Min.	Ca. 15 Min.	Ca. 30 Min.
Bulb Output	170 μW cm-2 nm-1(@800 nm)	100µW sr-1 cm-2 nm-1(@800 nm)	80 μW cm-2 nm-1(@215 nm)/5 μW cm-2 nm-1 (@800 nm)
Power requirement	12 V / 2.08 A	24 VDC / 0.3 A	100-240 VAC
Dimensions	150 x 78 x 37 mm	70 round x 75 mm height	315 x 165 x 140 mm

<sup>\*</sup> Optional extended range NIR calibration

HL-Recal-NIR

Ordering information	
AvaLight-HAL-CAL-Mini	NIST traceable Halogen Lamp with CC- VIS/NIR diffuser, incl. PS-12V/2.08A
AvaLight-HAL-CAL- ISP30-Mini	NIST traceable Halogen Lamp for use with AvaSphere-30-IRRAD, incl. PS-12V/2.08A and special sphere holder bottom plate
AvaLight-HAL-CAL- ISP50-Mini	As AvaLight-HAL-CAL-ISP30 for use with AvaSphere-50-IRRAD
AvaLight-HAL-CAL- ISP80-Mini	As AvaLight-HAL-CAL-ISP30 for use with AvaSphere-80-IRRAD
AvaSphere-50-LS-HAL- CAL	NIST traceable radiance calibration source, 10 mm and SMA adapter calibrated, incl PS-24V/1.25A
HL-Recal	AvaLight-HAL-CAL recalibration service 350-1095nm

AvaLight-D-CAL NIST traceable UV Deuterium Lamp with CC-UV/VIS diffuser, -SR fibers recommended AvaLight-DH-CAL NIST traceable UV/VIS Deuterium/Halogen Lamp with CC-UV/VIS diffuser, -SR fiber r

AvaLight-HAL-CAL extended or recalibration service 1100-2500nm

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AvaSoft-IRRAD Irradiance add-on software, to be ordered with AvaSoft-Full

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