

Calibrated Light Source



The **AvaLight-DH-CAL** is a calibrated light source for the UV/VIS/NIR spectral range (200-1099 nm). This NIST-traceable calibrated light source is developed for use with all AvaSpec spectrometers to measure absolute spectral intensity. The **AvaLight-DH-CAL** comes with a built-in diffuser, a cosine corrector CC-UV/VIS-CAL with SMA adapter and a diskette with the calibration file in ASCII format. The software includes two calibration files, both valid for calibration with the cosine corrector.

One calibration file can be used for irradiance calibration over the full range (200-1099 nm). In that case both the Deuterium and Halogen light need to be switched on during the calibration. The other calibration file can be used for irradiance calibration over the VIS/NIR range (350-1099 nm). In that case only the Halogen light needs to be switched on which gives a more smooth and stable output around 656 nm and at the higher wavelengths. The calibration files can be imported in the AvaSoft-IRRAD application software, developed to make your spectrometer system a spectroradiometer. The **AvaLight-DH-CAL** cannot be used as an illumination source for spectral absorbance, transmittance and reflectance measurements.

Technical Specifications

	AvaLight-DH-CAL
Wavelength Range	200-1099nm
Calibration Accuracy	± 15%
Stability	± 0.5%
Calibration valid for	60 hrs
Warm-up Time	Ca. 30 min.
Bulb Output (CC-UV/VIS-CAL)	80µW/cm ² nm (@215nm) 3µW/cm ² nm (@800nm)
Power requirements	100-240 VAC
Dimensions (mm)	315 x 165 x 140

Spectral Output AvaLight-DH-CAL

