DH-2000-CAL

UV-NIR Radiometric Calibration Source

The DH-2000-CAL Deuterium Tungsten Halogen Calibration Standard is a UV-NIR light source used to calibrate the absolute spectral response of a radiometric system. With the DH-2000-CAL and SpectraSuite Software, you can determine known absolute intensity values at wavelengths from 220-1050 nm.

The DH-2000-CAL is specifically calibrated for use with optical fibers or a cosine corrector; the calibration data includes absolute intensities for wavelengths between 220-1050 nm at the fiber entrance port for both a bare fiber and a CC-3-UV Cosine Corrector.

Features

- UV-NIR Calibration Source. For use in performing fast, radiometric calibrations from 220-1050 nm
- NIST-traceable Calibration from 220-1050 nm. Provides absolute spectral intensity in µW/cm2/nm at the fiber port
- Calibration Certificate. Calibration data is provided in paper and electronic formats for use with SpectraSuite Software

Included with the Lamp

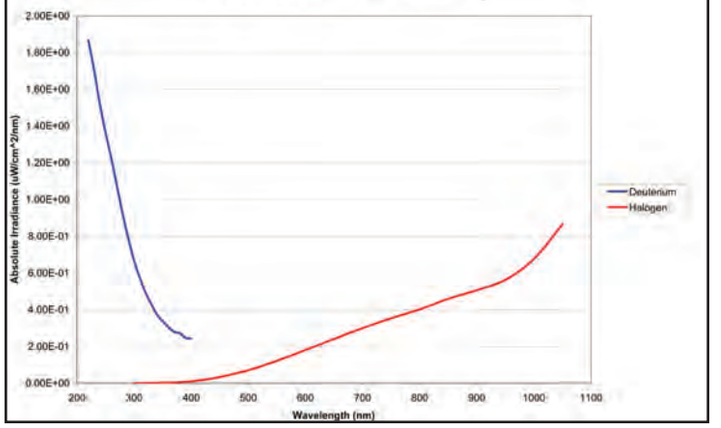
The DH-2000-CAL comes with the CC-3-UV Cosine Corrector. Also included are a calibration certificate and a diskette with a data file for use with our Spectra-Suite Software.

Other Calibration Services

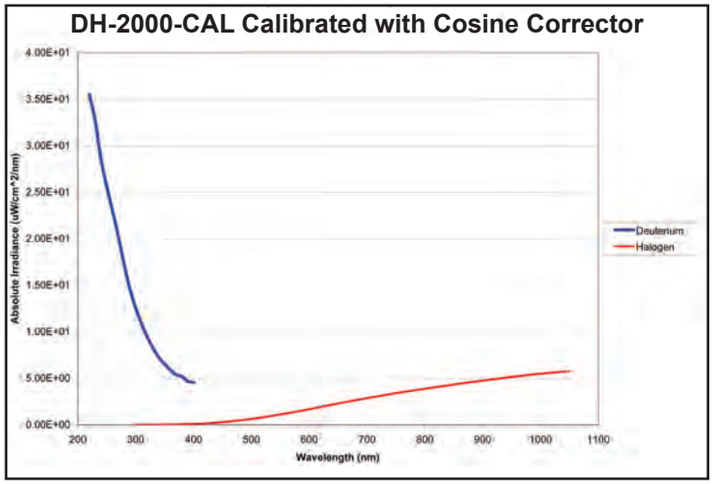
The DH-2000-CAL typically provides about 50 hours of operation before recalibration is necessary. Ocean Optics recalibrates these lamps in-house. Also, by using our SPEC-CAL-UV in-house calibration service, it is possible to have your UV spectrometer radiometrically calibrated without purchasing a DH-2000-CAL.

The calibration is typically good for about one year, provided the optical fiber is not removed from the setup, as the system is calibrated specifically for use with a fiber.

DH-2000-CAL Calibrated with Optical Fiber



DH-2000-CAL Calibrated with Cosine Corrector



Specifications	
Dimensions:	150 mm x 135 mm x 319 mm
Weight:	6 kg
Power consumption:	25 W (deuterium); 20 W (tungsten halogen)
Calibrated range:	220-1050 nm
Calibration accuracy:	+/-5%
Calibration valid for:	50 hours
Lamp current:	Operating 85 V/0.3A
Lamp voltage:	350 V
Power requirements:	85-264 V 50/60 Hz
Current voltage drift:	<0.01% per hour
Current voltage stability:	<5 x 10^6 peak-to-peak (0.1-10.0 Hz)
Humidity:	5-95% without condensation at 40 °C
Operating temperature:	5 °C - 35 °C
Total power:	100 W
Power consumption:	190 W maximum
Warm-up time:	40 minutes (deuterium); 20 minutes (tungsten halogen)
Markings:	CE; VDI/VDE 0160; EN 61010

Models Available	
DH2000-CAL	NIST-traceable UV-NIR (220-1050 nm) calibration source
DH2000-RECAL	Recalibration service from 220-1050 nm
DH2000-CAL-EXT	Upgrade for extended range from 1050-2200 nm
DH2000-RECAL-EXT	Upgrade recalibration service from 1050-2200 nm