

# AvaLight-DHc

## Full-range Compact Light Source

### AvaLight-DHc



Get the best out of two worlds with the AvaLight-DHc. It has both a deuterium light source and a halogen light source, providing you with adequate light between 200 and 2500 nm for nearly all absorbance chemistry applications. Deuterium emits light between 200 and 550 nm, where the halogen takes over up to 2500 nm. Coupling this lightsource to the rest of your spectroscopy system is easy with the SMA connector.

Optionally the AvaLight-DHc is available in a rack-mountable version, to be used in the 19" rack or the 9.5" desktop system.

- Combined Deuterium-Halogen
- Integrated TTL-shutter

A direct-attach cuvette holder CUV-DA (see section accessories) is available for fluorescence or absorbance measurements.

This light source is recommended in settings with large fiber cables or direct-attachment to a cuvette holder such as the CUV-DA, due to its relatively low output energy. The integrated TTL-shutter makes saving a dark measurement very simple in combination with AvaSoft (extra IC-DB26-2 needed).

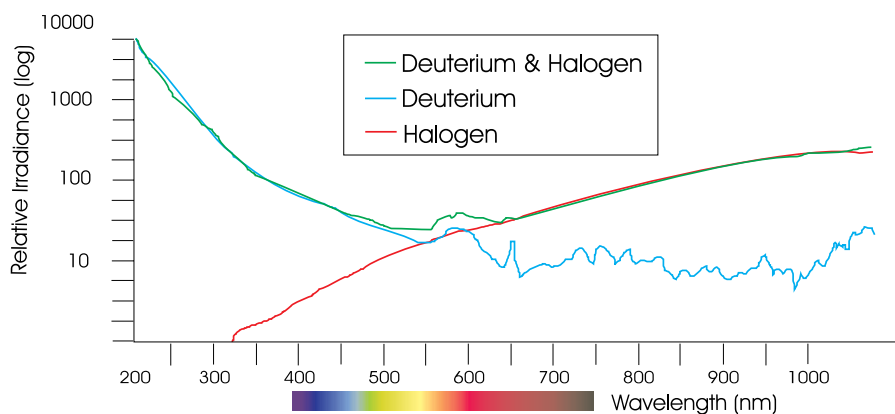


Figure 8 Spectral output of AvaLight-DHc

### Technical Data

	Deuterium Light Source	Halogen Light Source
<b>Wavelength Range</b>	200 - 400 nm	400 - 2500 nm
<b>Stability</b>	< 1 mAU	< 1 mAU
<b>Warm-up time</b>	8 min	1 min
<b>Drift</b>	< 0.25% / h	< 0.25% / h
<b>Optical Power in 600 <math>\mu</math>m fiber</b>	0.2 $\mu$ Watt	7 $\mu$ Watt
<b>Lamp Lifetime</b>	1000 hours	2000 hours
<b>Temp. Range</b>	5°C - 35°C	
<b>Power Supply</b>	12VDC / 450 mA	
<b>Dimensions</b>	175 x 110 x 44 mm	
<b>Lifetime shutter</b>	1.000.000 cycles (typical)	

## Ordering information

<b>AvaLight-DHc</b>	• Compact Deuterium Halogen Light Source with TTL Shutter
<b>IC-DB26-2</b>	• Interface cable AvaSpec-USB2 platform to AvaLight-DHc-TTL-shutter
<b>AvaLight-DHc-RM</b>	• Rackmount Compact Deuterium Halogen Light Source with TTL Shutter
<b>AvaLight-DHc-B</b>	• Compact Deuterium Halogen Replacement Bulb
<b>CUV-DA</b>	• Direct-attach cuvette holder for AvaLight-DHc/XE/LED
<b>PS-12V/1.0A</b>	• Power supply 100-240VAC/12VDC, 1.0A for AvaLight-DHc



Three years  
limited warranty on all  
Avantes spectrometers,  
light sources and accessories