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.

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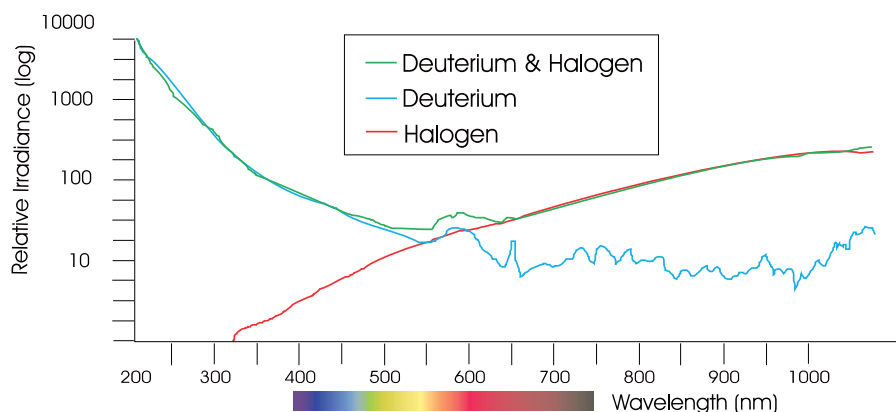
Optionally the AvaLight-DHc is available in a rack-mountable version, to be used in the 19" rack or the 9.5" desktop system.

• Combined Deuterium-Halogen
• Integrated TTL-shutter

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

Figure 8 Spectral output of AvaLight-DHc

Technical Data

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

Light Sources

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Ordering Information

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

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