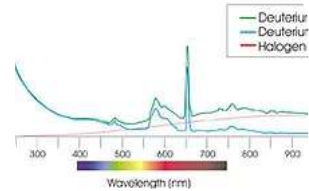


## AvaLight-DH-S Standard Deuterium Halogen Light Source



If you require more power than that offered by the AvaLight-DHc (compact DH source), the AvaLight-DH-S will very likely be the perfect solution as the most powerful deuterium halogen source in the range.

Like the AvaLight-DHc, it's also a combined deuterium and halogen light source, capable of transmitting light in the UV/VIS/NIR range, but it has 35 times more halogen output and up to 300 times more deuterium power.#

The source has a prominent 656 nm deuterium peak which can limit dynamic range. An alternative exists in the Avalight-DH-S-BAL - this has dedicated internal filtering that reduces the peak so that the output is much more balanced, and therefore offering the best opportunity to maximise the dynamic range.

It also includes a focusing lens assembly, to fully utilise the possibilities and size of your fibre.

The AvaLight-D-S is a deuterium only light source, making it a great option for measurements in the UV range from 190-400nm. The AvaLight-D-S-DUV version starts even lower at 175nm, for your deep UV experiments. This version also offers twice the intensity at 200nm.

The output of the AvaLight-DH-S is optimised for fibres or bundles up to 600micrometers. For larger fibre, the focal point is manually adjustable to optimise the light coupling into your fibre.

The AvaLight-D(H)-S also features an integrated TTL shutter and filter holder for filters of up to 50x50x5.0mm.

Key feature of the AvaLight-DH-S range are...

- Combined Deuterium-Halogen
- UV/VIS/NIR
- Deep UV options
- Powerful

### Technical data

	Deuterium (Deep UV)/ Long life	Deuterium (Standard)/ Long life	Halogen Lamp
Wavelength Range	175-400nm	190-400nm	360-2500nm
Warm-up Time	30 min	30 min	20 min
Lamp Power	78W/0.75A	78W/0.75A	5W/0.75A
Lamp Lifetime	2000 hrs	2000 hrs	1000 hrs
Noise (AU)	2x 10 <sup>-5</sup>	2x 10 <sup>-5</sup>	10 <sup>-4</sup>
Max. drift	± 0.5%/hr	± 0.5%/hr	± 0.1%/hr
Color Temperature	-	-	3000K
Optical Power* in 200µm fibre	11 µW	11 µW	43 µW
Optical Power* in 600µm fibre	72 µW	72 µW	239 µW
Optical Power* in 1000µm fibre	206 µW	206 µW	354 µW
Power consumption	90 Watt (190 Watt for heating D-Lamp 4-5 sec.)	90 Watt (190 Watt for heating D-Lamp 4-5 sec.)	90 Watt (190 Watt for heating D-Lamp 4-5 sec.)



## Ordering information

AvaLight-D-S	Deuterium light source, 190-400 nm, incl. TTL shutter, -SR fibers needed
AvaLight-DH-S	Deuterium-Halogen light source, 190-2500 nm, incl. TTL shutter, -SR fibers needed
AvaLight-D-S-DUV	Deep UV deuterium light source, 175-400 nm, incl. TTL shutter, -SR fibers needed
AvaLight-DH-S-DUV	Deep UV deuterium-halogen light source, 175-2500 nm, incl. TTL shutter, -SR fibers needed
IC-DB26-2	Interface cable AvaSpec-USB2 platform to AvaLight-D(H)S
AvaLight-D-B	Replacement deuterium bulb for AvaLight-D/AvaLight DH light source
AvaLight-D-B-DUV	Replacement deep UV deuterium bulb for AvaLight-D/AvaLight-DH light source
AvaLight-DH-B	Replacement halogen bulb for AvaLight-DH light source
CUV-DA-DHS	Direct attach cuvette holder for AvaLight-D(H)S
Filter options	
GL-WG305-3	Separate 50 x 50 x 3 mm long-pass filter > 305 nm
GL-KG3-3	Separate 50 x 50 x 3 mm bandpass filter, transparent > 325 nm and < 700 nm
GL-BG28-3	Separate 50 x 50 x 3 mm bandpass filter, transparent > 360 nm and < 500 nm
GL-GG385-3	Separate 50 x 50 x 3 mm long-pass filter > 385 nm
GL-GG475-3	Separate 50 x 50 x 3 mm long-pass filter > 475 nm
GL-OG515-3	Separate 50 x 50 x 3 mm long-pass filter > 515 nm
GL-OG550-3	Separate 50 x 50 x 3 mm long-pass filter > 550 nm
GL-OG590-3	Separate 50 x 50 x 3 mm long-pass filter > 590 nm
GL-NG9-1	Separate 50 x 50 x 1 mm Neutral Density filter (transmission ca. 10% 400-1100nm)
GL-NG9-2	Separate 50 x 50 x 2 mm Neutral Density filter (transmission ca. 1% 400-1100nm)
GL-NG9-3	Separate 50 x 50 x 3 mm Neutral Density filter (transmission ca. 0.1% 400-1100nm)

More filter types available, please contact us for ordering information.

[Want to discuss your application?](#)

[Need a quote?](#)

[Want a demo?](#)

