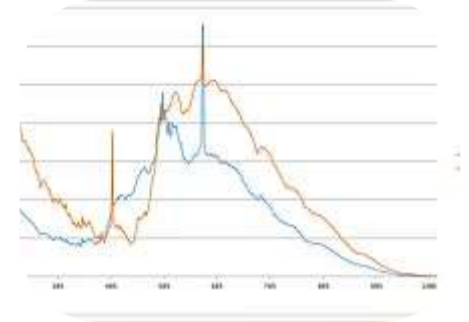




### AvaLight-DH-S-BAL Balanced Deuterium Halogen Light Source



The AvaLight-DH-S is a powerful deuterium halogen source, but like any unbalanced deuterium halogen source, it does have a very dominant alpha peak at 656nm.

To combat this, Avantes developed the AvaLight-DH-S-BAL, a version of the original AvaLight-DH-S in which this peak is drastically reduced by a dichroic filter. This means less power, but an increase in the dynamic range of a factor 20. A comparison spectrum as taken with a standard AvaSpec-2048 is shown in the image.

The light source delivers a continuous spectrum with high efficiency. The highest stability is in the ultraviolet, visible and near infrared range, from 200 to 2500nm.

An integrated TTL-shutter and filter holder for filters of up to 50x50x5.0mm are included. The TTL-shutter can be controlled from any AvaSpec spectrometer, which means the auto-save dark-option in AvaSoft software can be used (IC-DB26-2 cable needed).

Connection to the fibre is done through an SMA905 connector, which features an adjustable focusing lens assembly. This ensures you get the maximum possible power into your fibre. For all deuterium light sources, solarisation resistant fibers (-SR) are recommended (see the fibre optics section). The output of the AvaLight-DH-S-BAL is optimised for fibres or bundles up to 1500µm.

#### Key fetures...

- Balanced light source
- Wide spectrum - 200-2500nm
- Integrated TTL shutter
- High efficiency
- Increased dynamic range

The front mounted filter holder can be easily replaced by a number of direct attach accessories, such as the cuvette holder CUV-DA-DHS, which is useful for fluorescence or absorbance measurements.

#### Technical data

	Balanced Deuterium	Balanced Halogen
Wavelength Range	215-500nm	500-2500nm
Warm-up Time	30 min.	20 min.
Lamp Power	78W / 0.75A	5W / 0.5A
Lamp Lifetime	2000 hrs	1000 hrs.
Noise (AU)	2x10 <sup>-5</sup>	10 <sup>-4</sup>
Max. drift	± 0.5%/hr	± 0.1%/hr
Color Temperature	-	3000 K
Optical Power in 200µm fiber	6 µW	17 µW
Optical Power in 600µm fiber	33 µW	160 µW
Optical Power in 1000µm fiber	90 µW	440 µW

Power consumption 90 Watt (190 Watt for heating D-Lamp 4-5 sec.) 90 Watt (190 Wa

Sales & Support  
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### Ordering information

AvaLight-D-S-BAL	Balanced Deuterium Light source, 215-500 nm, incl. TTL shutter, -SR fibers needed
AvaLight-DH-S-BAL	Balanced Deuterium-Halogen Light source, 215-2500 nm, incl. TTL shutter, -SR fibers needed
IC-DB26-2	Interface cable AvaSpec-USB2 platform to AvaLight-D(H)S-BAL
AvaLight-D-B	Replacement deuterium bulb for AvaLight-D/AvaLight DH-BAL light source, 2000 hrs
AvaLight-DH-B	Replacement halogen bulb for AvaLight-DH-BAL light source
CUV-DA-DHS	Direct-attach cuvette holder for AvaLight-D(H)S-BAL

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