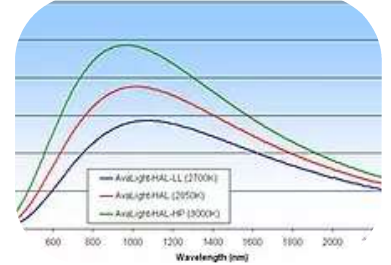## AvaLight-HAL-Mini
Tungsten Halogen Light Source

The AvaLight-HAL-Mini is a visible to near infrared light source.

It's compact, stabilised and has adjustable focusing of the fibre connection, maximising output power at the desired wavelength. The light source also has adjustable output power to provide extra power or longer bulb life. The adjustable focus on the AvaLight-HAL-Mini helps you getting the most out of your light source - it makes sure all possible power is transmitted through your optical fiber. Bulb replacement is easy and can be done in a matter of minutes.

The AvaLight-HAL-Mini also has filter lot mounted on the front side, which accepts 1" round or 2" x 2" square filters, to block specific ranges of wavelengths or instantly lower the intensity.

As an option, a combined direct-attach cuvette holder and attenuator is available (CUV-ATT-DA-HAL). For attenuation only, one can use the Inline Filter Holder (FH-INL) or the Inline attenuator (ATT-INL).

The optical output can be controlled through a dongle at the rear or from your computer. At low setting the lamp has a colour temperature of 2700K but provides over 13000 hours of lifetime. The standard or medium setting changes the colour temperature to 2850K and provides 50% more power with a bulb lifetime of 4000 hours. The high power setting gives a colour temperature of 3000K, doubles power compared to the long life setting and gives you up to 1000 hours of lifetime.

The AvaLight-HAL-S-Mini also features an internal TTL-shutter, controllable from your AvaSpec spectrometer. This gives you the ability to use the auto save dark option in AvaSoft spectroscopy software.

Technical data

	AvaLight-HAL-(S)-Mini (standard)	AvaLight-HAL-S)-Mini (long life)	AvaLight-HAL-(S)-Mini(high power)
Wavelength Range	360-2500nm	360-2500nm	360-2500nm
Stability	< 0.1%/°C	< 0.1%/°C	< 0.1%/°C
Time to Stabilise	<10 min.	<10 min.	<10 min.
Output to bulb	12.0 VDC / 0.83A	10.8 VDC / 0.8A	13.5 VDC / 1.0A
Bulb Life	4000 hrs	13000 hrs	1000 hrs
Optical power* 200μm fibre	0.5 mWatt	0.35 mWatt	0.7 mWatt
Optical power* 600μm fibre	4.5 mWatt	3.2 mWatt	6 mWatt
Optical power* 1000μm fibre	10 mWatt	7 mWatt	
Bulb Colour Temperature	2,850 K	2,700 K	

AvaLight-HAL-Mini	10W Tungsten Halogen Lamp, fan-cooled, needs extra PS-12V/1.5A power supply
AvaLight-HAL-S-Mini	As AvaLight-HAL, incl. TTL shutter, needs extra PS-12V/1.5A power supply
AvaLight-HAL-S-RM	Rack-mounted version of AvaLight-HAL-S-Mini
IC-DB26-2	Interface cable AvaSpec-USB2 platform to AvaLight-HAL-S-Mini
AvaLight-HAL-B-Mini	10W Tungsten Halogen Replacement bulb for AvaLight-HAL, AvaLight-HAL(-S)-Mini
PS-12V/2.08A	Power supply 100-240VAC/12VDC, 2.08A, necessary for AvaLight-HAL-Mini
DONGLE-H	Dongle for high power setting
DONGLE-L	Dongle for long life setting
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.

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