

HL-2000

Tungsten Halogen Light Source



The HL-2000 Tungsten Halogen Light Sources are versatile lamps that are optimized for the VIS-NIR (360-2000 nm) range. Their unique lamps feature adjustable focusing of the SMA 905 connector for maximizing light coupling into the fiber. A fan keeps the HL-2000 cool and stable while the built-in filter slot accepts optical fibers up to 25.4 mm round or up to 50.8 mm square.

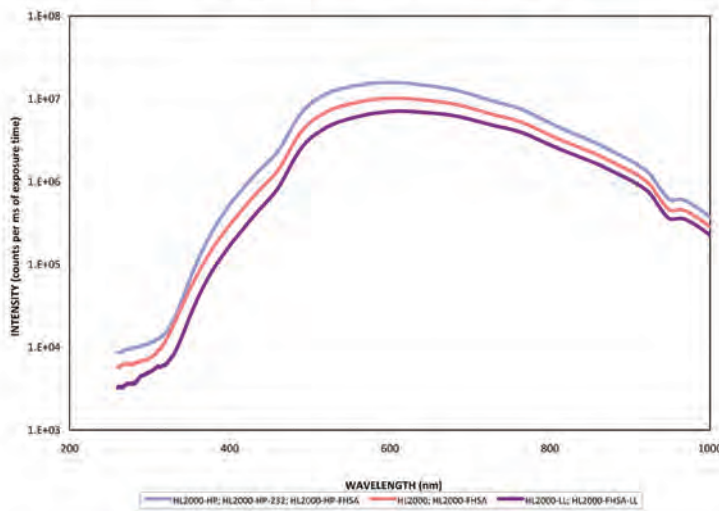
Smart Features

- Available with 10,000-hour, long-life bulb
- High-power version available that doubles your output power
- Fan cooled with shutter, TTL and manual attenuator functions
- RS-232 interface option to access shutter and attenuator

High-power Version

For applications requiring strong VIS-NIR output and using large-diameter optical fibers or fiber and probe bundles, a special high-power version of the HL-2000 is available. The bulb used in the HL-2000-HP is a 20-watt bulb. In addition, you can opt to control the intensity of the HL-2000-HP via an RS-232 module.

HL2000 Series Spectral Output



Measured with HR2000+ Spectrometer with 25 μ m Slit and 400 μ m Optical Fiber

Item	Description
HL-2000	Tungsten halogen light source, 1,500-hour bulb
HL-2000-LL	Long-life version (10,000-hour)
HL-2000-FHSA	Includes filter holder, attenuator and shutter
HL-2000-FHSA-LL	Long-life version (10,000-hour); includes filter holder, attenuator and shutter
HL-2000-HP	High-powered, 20 W version
HL-2000-HP-FHSA	High-powered, 20 W version with filter holder, attenuator and shutter
HL-2000-HP-232R	High-powered, 20 W version, rack-mounted, with RS-232 control
HL-2000-B	Spare 1,500-hour bulb
HL-2000-B-LL	Long-life 10,000-hour spare bulb
HL-2000-HP-B	High-power spare bulb

Specifications

HL-2000, HL-2000-LL Standard Sources

Dimensions (mm):	62 x 60 x 150
Weight:	500 g
Output:	7 watts
Output to bulb:	1.4 A @ 5 VDC
Wavelength range:	360 nm-2000 nm
Stability:	0.5%
Drift:	<0.3% per hour
Time to stabilize:	~5 minutes
Bulb lifetime:	1,500 hours
Bulb color temperature:	2,960 K
Temperature:	5 °C - 35 °C
Humidity:	5-95% at 40 °C

HL-200-HP, HL-200-HP-RS-232 High-Power Sources

Dimensions (mm):	62 x 60 x 150
Weight:	500 g
Output:	20 watts
Output to bulb:	1.2 A @ 24 VDC
Wavelength range:	360 nm-2000 nm
Stability:	0.5%
Drift:	<0.3% per hour
Time to stabilize:	~5 minutes
Bulb lifetime:	2,000 hours
Bulb color temperature:	3,000 K
Temperature:	5 °C - 35 °C
Humidity:	5-95% at 40 °C