



HL-2000 Family

Prices may vary, see options below

Tungsten Halogen Light Sources for the Vis-NIR

Availability: Select model/option first

HL-2000 Products

Choose an option ▼



1

Add to cart

Item Code: N/A

The HL-2000 family of visible and near-infrared light sources offers diverse models and performance characteristics to match your measurements. From high-power to long lifetime, the HL-2000 family provides flexibility for your lab for measurements between 360-2400 nm.

All HL-2000 models feature an integrated fan to keep the light sources cool and stable. A universal power supply makes setup quick and easy.

The additional features of the –FHSA model include an adjustable focusing of the SMA 905 connector to maximize light coupling into the fiber and a built-in filter holder that accepts optical filters up to 25.4 mm round to 50.8 mm square and up to 3 mm thick. Additionally, the DB-15 connector allows you to control the shutter via TTL.

For more power, the –HP model features a high-power lamp delivering 20 W of power.

The –LL model uses a unique long lifetime lamp that extends operation to 10,000 hours.

PRODUCT DETAILS

SPECIFICATIONS

Source:	Long Lifetime Tungsten Halogen
Wavelength range:	360-2400 nm
Color temperature:	2,800 K
Nominal bulb power:	4.75 W
Typical output power:	See chart below
Warm-up time:*	10 minutes
Source lifetime:	10,000 hours (typical)
Stability of optical output:	0.15% peak-to-peak
Drift of optical output:	<0.3% per hour
Trigger/shutter:	HL-2000-FHSA-LL only
Integrated filter holder & attenuator:	HL-2000-FHSA-LL only
Operating temperature:	5 °C – 35 °C
Operating humidity:	5-95% without condensation at 40 °C
Power requirements:	12 VDC
Power consumption:	up to 15 W
Dimensions:	6.2 cm x 6 cm x 15 cm
Weight:	0.5 kg
Safety & regulatory:	CE; ROHS, WEEE
Replacement bulb:	HL-2000-B-LL

* Warm-up time @23 °C ambient, free airflow, no vibrations

Engineering Specifications	HL-2000-HP Family
Source:	High-powered Tungsten Halogen
Wavelength Range:	360-2400 nm
Color temperature:	3,000 K
Nominal bulb power:	20 W
Typical output power:	See chart below
Warm-up time:*	10 minutes
Source lifetime:	1,000 hours (typical)
Stability of optical output:	0.25% peak-to-peak
Drift of optical output:	<0.3% per hour
Trigger/shutter input signal:	TTL; Up to 2.5 Hz maximum
Trigger/shutter connection:	SUB-D-15 pin
Integrated filter holder:	HL-2000-HP-FHSA only
Operating temperature:	5 °C – 35 °C
Operating humidity:	5-95% without condensation at 40 °C
Power requirements:	24 VDC
Power consumption:	up to 30 W
Dimensions:	6.2 x 6 x 15 cm
Weight:	0.5 kg
Safety & regulatory:	CE; ROHS, WEEE
Replacement bulb:	HL-2000-HP-B

* Warm-up time @23 °C ambient, free airflow, no vibrations

Output Power

The table below reports typical output power coupled into a 600 µm UV/VIS fiber and measured with an optical power meter integrated from 200-1100 nm.

Model	Output
HL-2000	6.8 mW
HL-2000-FHSA	6.7 mW
HL-2000-LL	4.7 mW
HL-2000-FHSA-LL	4.5 mW
HL-2000-HP	8.8 mW
HL-2000-HP-FHSA	8.4 mW
HL-2000-HP-232-R	8.4 mW

Shutter/Trigger Options

- Available only for the listed models

Engineering Specifications	HL-2000-FHSA	HL-2000-FHSA-LL	HL-2000-HP-FHSA	HL-2000-HP-232R
Trigger/shutter input signal:	TTL; Up to 2.5 Hz maximum	TTL; Up to 2.5 Hz maximum	TTL; Up to 2.5 Hz maximum	TTL; Up to 1.0 Hz maximum
Trigger/shutter connection:	SUB-D-15 pin	SUB-D-15 pin	SUB-D-15 pin	SUB-D-15 pin

DOWNLOADS

APPLICATION NOTES

MEASUREMENT TECHNIQUES

RELATED PRODUCTS

SPECTRAL OUTPUT GRAPH