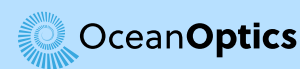


Tungsten Halogen Light



KO
KNIGHT OPTICAL

HL-2000



Reliable tungsten halogen light sources to meet your application requirements. From high-power to long-lifetime models, our HL-2000 product family provides flexibility for your lab for measurements from 360-2400 nm.

All HL-2000 models have an integrated fan to keep source cool and stable, and a built-in holder that accommodates filters for conditioning the light. Some models include an integrated shutter and long-lifetime bulb. A universal power supply makes setup quick and easy.

PRODUCT OVERVIEW

| | |
|-------------------------------------|---|
| Integrated Cooling | Built-in fan to keep source cool and stable |
| High Power Option | Has nominal bulb of 20 W |
| Universal Power Supply | Quick and easy setup |
| Standard and Enhanced Models | High power or long lamp lifetime |

Contact our technical sales team to learn more about how our light source solutions can meet your spectroscopy requirements.

www.knightoptical.com

info@knightoptical.com +44 (0)1622 859 444 | usasales@knightoptical.com +1 401 583 7846

Bringing quality
into focus

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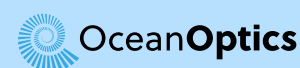


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| Specifications | HL-2000-LL-FHSA | HL-2000-LL | HL-2000-HP | HL-2000-HP-FHSA |
|----------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Wavelength Range | 360-2400 nm | 360-2400 nm | 360-2400 nm | 360-2400 nm |
| Source | Long Lifetime Tungsten Halogen | Long Lifetime Tungsten Halogen | High-powered Tungsten Halogen | High-powered Tungsten Halogen |
| Nominal Bulb Power | 7 W | 7 W | 20 W | 20 W |
| Typical Output Power | 4.5 mW | 4.7 mW | 8.8 mW | 8.4 mW |
| Color Temperature | 2800 K | 2800 K | 3000 K | 3000 K |
| Drift of Optical Output | <0.1% per hour | <0.1% per hour | <0.1% per hour | <0.1% per hour |
| Source Lifetime | 10 000 hours (typical) | 10 000 hours (typical) | 1 000 hours (typical) | 1 000 hours (typical) |
| Stability of Light Source Output | 0.25% peak-to-peak | 0.25% peak-to-peak | 0.25% peak-to-peak | 0.25% peak-to-peak |
| Warm-up Time | 10 minutes | 10 minutes | 10 minutes | 10 minutes |
| Operating Humidity | 5-95% without condensation at 40 °C | 5-95% without condensation at 40 °C | 5-95% without condensation at 40 °C | 5-95% without condensation at 40 °C |
| Operating Temperature | 5 °C – 35 °C | 5 °C – 35 °C | 5 °C – 35 °C | 5 °C – 35 °C |
| Shutter | Yes | No | No | Yes |
| Integrated Filter Holder | Yes | Yes | Yes | Yes |
| Attenuator | Yes | No | No | Yes |
| Integrated Cuvette Holder | No | No | No | No |
| Fiber Connector | SMA 905 | SMA 905 | SMA 905 | SMA 905 |
| Dimensions | 58 x 59 x 140mm | 58 x 59 x 140 mm | 58 x 59 x 140 mm | 58 x 59 x 140 mm |
| Weight | 0.5 kg | 0.5 kg | 0.5 kg | 0.5 kg |
| Power Consumption | up to 15 W | up to 15 W | up to 30 W | up to 30 W |
| Power Requirements | 12 VDC | 12 VDC | 24 VDC | 24 VDC |
| Trigger/Shutter Input Connection | | | | SUB-D-15 pin |
| Trigger/Shutter Input Signal | | | | TTL Up to 2.5 Hz maximum |

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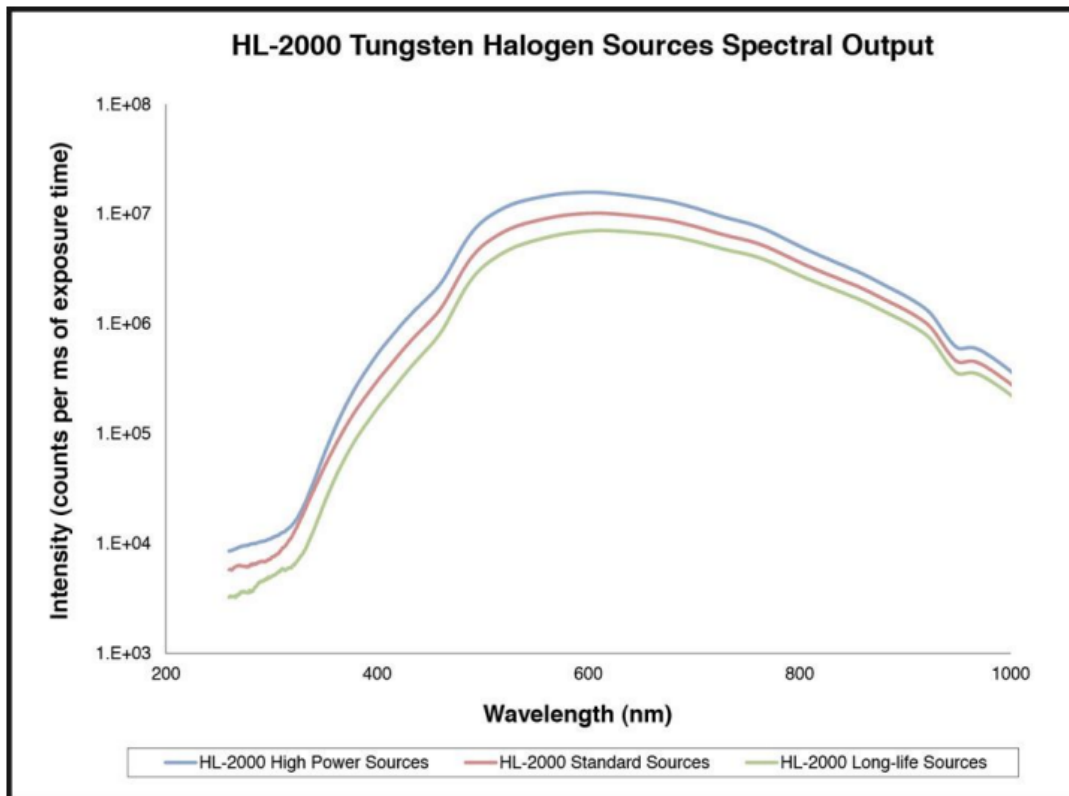
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SPECTRAL OUTPUT



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