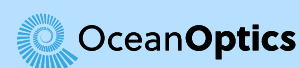


# Deuterium-Tungsten Halogen Light Sources



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KNIGHT OPTICAL

DH-2000



The DH-2000 light source offers stable, continuous output from 215-2500 nm. Using a combination of deuterium and halogen lamps, the DH-2000 is ideal for measuring a sample that has multiple features in different spectral regions or for analyzing a variety of different samples in your lab. All models of the DH-2000 family include easy-to-replace bulbs, keeping your measurements going with fast lamp changes.

For those that need light into the deep UV, the DH-2000-FHS-DUV-TTL and DH-2000-S-DUV-TTL models include a special deep-UV deuterium lamp providing output from 190-2500 nm.

The DH-2000-FHS-DUV-TTL comes with a filter holder for filters up to 25 mm square or 25 mm round in diameter and 4 mm in thickness, plus a shutter controlled via TTL signal or switch up to 5 Hz.

## PRODUCT OVERVIEW

<b>Deuterium and Tungsten Halogen</b>	Two powerful light sources combined in a single optical path from ~200-2500 nm
<b>Integrated Filter Holder</b>	Holds optical filters to condition the light prior to coupling into the fiber optic cable
<b>TTL Control (model-dependent)</b>	Allows the deuterium and halogen bulbs to be turned on/off individually and remotely
<b>Easy-to-Replace, Pre-Aligned Bulbs</b>	Minimal downtime needed for bulb replacement

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

[www.knightoptical.com](http://www.knightoptical.com)

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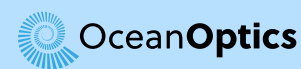


# Deuterium-Tungsten Halogen Light Sources



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DH-2000



Specifications	DH-2000-BAL	DH-2000-FHS-DUV-TTL	DH-2000- S-DUV-TTL
Wavelength Range	210-2500 nm	190-2500 nm	190-2500 nm
Source	Deuterium & Tungsten Halogen	Deep-UV Deuterium & Tungsten Halogen	Deep-UV Deuterium & Tungsten Halogen
Nominal Bulb Power	25 W (deuterium), 20 W (tungsten halogen)	26 W (deuterium), 20 W (tungsten halogen)	26 W (deuterium), 20 W (tungsten halogen)
Typical Output Power	194 $\mu$ W (deuterium bulb), 615 $\mu$ W (tungsten bulb)	217 $\mu$ W (deuterium), 295 $\mu$ W (tungsten halogen)	585 $\mu$ W (deuterium), 990 $\mu$ W (tungsten halogen)
Source Lifetime	1000 hours	1000 hours	1000 hours
Stability of Light Source Output	$\leq 0.1\%$ /hour @ 254 nm (deuterium) $\leq 0.1\%$ /hour @ 700 nm (tungsten halogen)	NA	NA
Warm-up Time	25 minutes	25 minutes	25 minutes
Operating Humidity	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
Shutter	Yes	Yes	Yes
Fiber Connector	SMA 905	SMA 905	SMA 905
Integrated Filter Holder	No	Yes	No
Dimensions	15 x 13.5 x 28.5 cm	15 x 13.5 x 28.5 cm	15 x 13.5 x 28.5 cm
Weight	5.5 kg	5 kg	5 kg
Power Consumption	Approx 78VA	Approx 78VA	Approximately 78VA
Power Requirements	85-264 V 50/60 Hz	85-264 V 50/60 Hz	85-264 V 50/60 Hz
Trigger/Shutter Input Connection	SUB-D-15 pin	NA	SUB-D-15 pin
Trigger/Shutter Input Signal	TTL Up to 2.5 Hz maximum	NA	TTL Up to 2.5 Hz maximum

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# Deuterium-Tungsten Halogen Light Sources

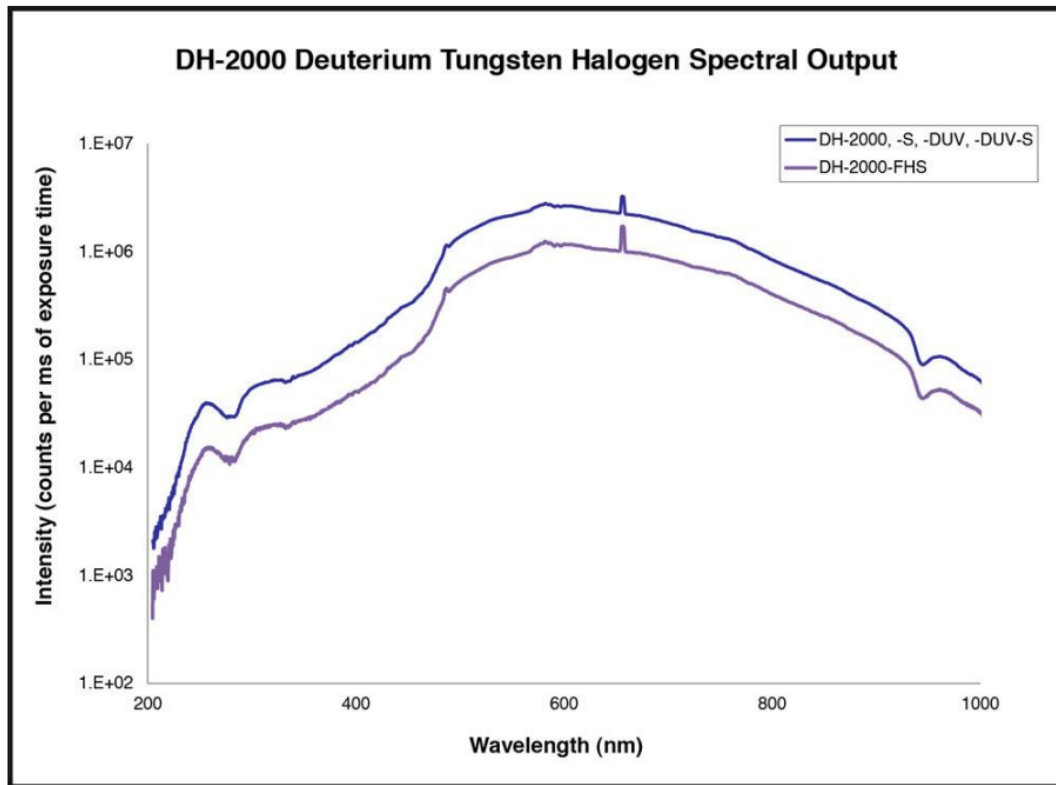


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DH-2000



## SPECTRAL OUTPUT



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