



## DH-2000 Family

Deuterium-Halogen Light Sources for the UV-Vis-NIR

Contact us for details or to request a quote.

Item Code: 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-S-DUV-TTL models come with a shutter to limit the exposure of samples to the UV light.

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 DETAILS

### SPECIFICATIONS

Engineering Specifications	DH-2000-DUV Series
Sources:	Deep-UV Deuterium & Tungsten Halogen
Wavelength range:	190-2500 nm
Nominal bulb power:	26 W (deuterium) 20 W (tungsten halogen)
Typical output power:	See chart below
Warm-up time:*	25 minutes
Source lifetime:	1,000 hours

Stability of light source output:	≤0.1%/hour @ 254 nm (deuterium) ≤0.1%/hour @ 700 nm (tungsten halogen)
Drift:	≤0.1%/hour @ 254 nm (deuterium) ≤0.1%/hour @ 700 nm (tungsten halogen)
Shutter:	DH2000-S-DUV & DH2000-S-DUV-TTL only
Remote shutter control:	DH2000-S-DUV-TTL only
Integrated filter holder:	DH2000-FHS-DUV only
Operating temperature:	5 °C – 35 °C
Operating humidity:	5-95% without condensation at 40 °C
Power requirements:	85-264 V, 50/60 Hz
Power consumption:	Approximately 78VA
Dimensions (W x H x L):	15 x 13.5 x 28.5 cm
Weight:	5 kg
Safety & regulatory:	CE; ROHS, WEEE
Replacement bulbs:	DH-2000-DUV-B (deuterium) DH-2000-BH (tungsten halogen)

\* 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	Deuterium Bulb Only	Tungsten Bulb Only
DH-2000-FHS	217 µW	295 µW
DH-2000-DUV	585 µW	990 µW

## Shutter/Trigger Options

- Available only for the listed models

Engineering Specifications	DH2000-S-DUV-TTL
Trigger/shutter input signal:	TTL; Up to 2.5 Hz maximum
Trigger/shutter connection:	SUB-D-15 pin
Independent switching of deuterium and the halogen bulbs	Yes, via TTL signal

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APPLICATION NOTES

MEASUREMENT TECHNIQUES

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