

# DH-2000

## Deuterium Tungsten Halogen Light Source

Our DH-2000 Deuterium Tungsten Halogen Light Source combines the continuous spectrum of deuterium and tungsten halogen light sources into a single optical path for powerful output from 215-2500 nm. In addition, Deep-UV versions of our DH-2000 are available with a 190-2000 nm range.

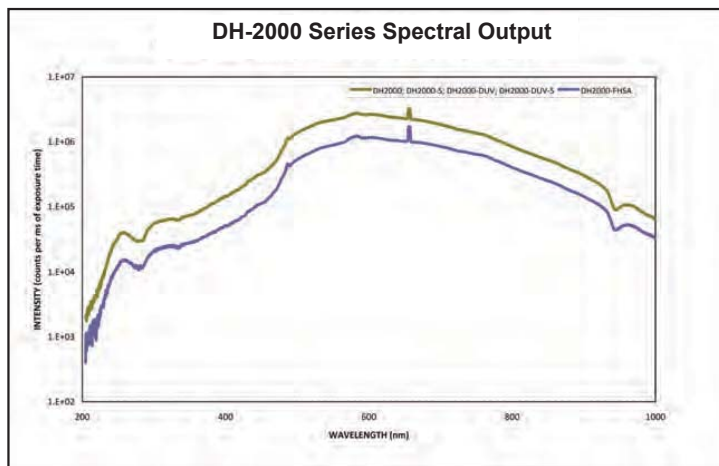
### Options and Accessories: Shutter and Filter Holder

Integrated shutters are available for your DH-2000 and can be driven by either a switch or a TTL signal.

You can also include a filter holder with the source that accepts filters up to 4 mm in thickness and as large as 25 mm square or 25 mm round. The DH-2000 has an SMA 905 connector for easy coupling to our spectrometers and accessories via an optical fiber.

### Adjustable Power

The DH-2000 has a potentiometer that adjusts the intensity of the tungsten halogen output. This allows you to adjust the optical power of the light source from 10-100%.



Measured with HR2000+ Spectrometer with 25  $\mu$ m Slit and 400  $\mu$ m Optical Fiber

Item Code	Description
DH2000-DUV	Uses a Deep-UV deuterium bulb that provides 190-2000 nm wavelength range
DH2000-S	Includes shutter control via a TTL signal or manual switch up to 5 Hz
DH2000-S-DUV	Uses a Deep-UV deuterium bulb that provides a 190-2000 nm wavelength range; includes shutter control via a TTL signal or manual switch up to 5 Hz
DH2000-FHS	Includes a filter holder for filters up to 25 mm square or 25 mm round and 4 mm thick
DH2000-FHS-DUV	Uses a Deep-UV deuterium bulb that provides 190-2000 nm wavelength range; includes a filter holder for filters up to 25 mm square or 25 mm round and 4 mm thick

### Specifications

Dimensions:	150 mm x 135 mm x 319 mm
Weight:	3.5 kg
Power consumption:	25 W (deuterium); 20 W (tungsten halogen)
Wavelength range:	190-400 nm (deep-UV deuterium bulb) 215-2500 nm (standard deuterium and tungsten halogen bulbs)
Humidity:	5-95% without condensation at 40 °C
Lamp current:	Operating 85 V/0.3A
Lamp lifetime:	1,000 hours
Lamp voltage:	Ignition 580 V at 20 °C
Current voltage drift:	<0.01% per hour
Current voltage stability:	<5 x 10 <sup>8</sup> peak-to-peak (0.1-10.0 Hz)
Operating temperature:	5 °C - 35 °C
Power requirements:	85-264 V 50/60 Hz
Radiation characteristic:	Aperture 0.5 mm, numerical aperture 26° (13°); focused Total power: 100 W
Power consumption:	Approximately 78VA
Warm-up time:	40 minutes (deuterium); 20 minutes (tungsten halogen)
Markings:	CE; VDI/VDE 0160; EN 61010