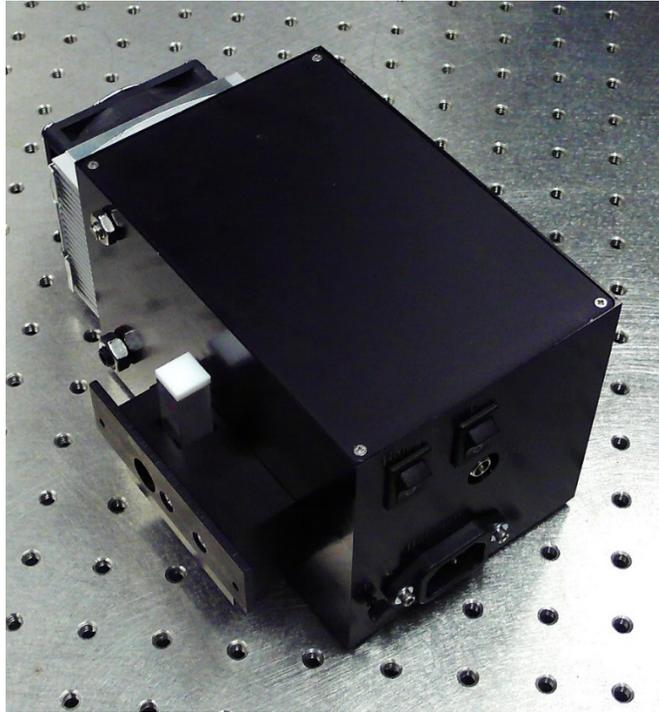


Deuterium / Halogen UV/VIS/NIR light source

D2-S1



Spectral range: 170-420nm (Deuterium lamp), 350-2500nm (Halogen lamp)

Lamps: Deuterium (UV) -30W
Halogen (VIS/NIR) – 10W

Dimension: 20cm x 100cm x 107cm

Weight: 1.2 kg

Power supply:

12V (1A) for halogen lamp and cooling (AC-DC adapter is included); 85 ~ 265 v, 0.5A max for Deuterium lamp

Spectral range:

D2-S1 is a light source for the 170-2500nm spectral range. It has 30W Deuterium lamp for UV spectral range 170-420nm and 10W halogen lamp for 350-2500nm spectral range.

No Ozone:

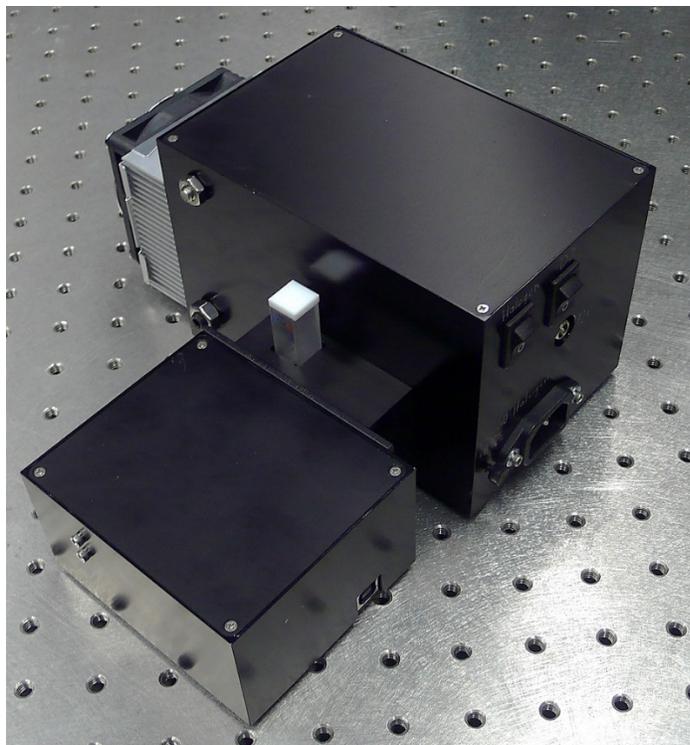
Light source has 10mm opening only for cuvette elimination. It prevents ozone, generated by UV lamp, leaking outside the light source body.

Cooling:

Light source has active cooling attached the aluminum body. It cools down aluminum box to the temperature 28C (22C ambient). Cuvette holder (13x13mm opening) made from black Delrin plastic. It prevents heat transfer to the sample and spectrometer.

Installation and operation:

1. Connect spectrometer with cosine corrected adapter (SMA905_AD2) to D2-S1 light source with two 4-40 screws connected to spectrometer on the optical port side:



2. Connect 12V power supply to light to D2-S1 light source.
3. Connect 85 ~ 265 v power cord.
4. Switch on both switchers to turn on halogen lamp and Deuterium lamp.
5. Wait 2-3 minutes to let lamps to warm up.
6. Move slider (on the left side from 85 ~ 265 v power connector) to switch between halogen and deuterium lamps. There are two end points in the slider position to fix lamps in the positions corresponding to Deuterium and halogen lamps position opposite to the cuvette opening.
7. Turn off both switchers. Disconnect 12V power cord to turn off light source.

Spectra from Deuterium lamp collected with LR1 spectrometer, configuration E (200-730nm, 0.5nm spectral resolution)