

UV Deuterium Light Source D2000



2022 V1

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D2000 Deuterium Light Source

The D2000 deuterium light source can produce a stable output spectrum of 190-400nm. Its peak-to-peak stability is less than 0.005% and drift is only +/-0.5% per hour.

Features

- Deep UV coverage. The coverage range is 190-400nm;
- Excellent performance. Super stable light source output with peak-to-peak stability of less than 0.005%;
- D2000 has a SMA905 interface, which is convenient to connect with SIMTRUM's spectrometer and optical fiber, and other measurement accessories;
- D2000 has a deuterium lamp bulb with a service life of 1500 hours and 2000 hours, which can be easily replaced.
- D2000 light source is powered by 85~250V wide voltage.

Adapter Fiber

It is recommended to use the -XSR UV-resistant silica fiber

Specifications

Model	D2000	D2000-L
Size	200mm x 145mm x 110mm	200mm x 145mm x 110mm
Weight	3.5kg	3.5kg
Power	25 W (deuterium lamp)	30 W (deuterium lamp)
Wavelength Range	185-600 nm (deep UV deuterium lamp bulb)	185-600 nm (deep UV deuterium lamp bulb)
Humidity Range	5-95%	5-95%
Current	85 V/0.3 A during operation	95 V/0.3 A during operation
Life	1,500 hours	2000 hours
Bulb Voltage	Lighting voltage 580 V@20 °C	Lighting voltage 580 V@20 °C
Voltage Drift	< 0.01 % per hour	< 0.01 % per hour
Voltage Stability	< 5x10 ⁻⁶ peak-to-peak (0.1-10.0 Hz)	< 5x10 ⁻⁶ peak-to-peak (0.1-10.0 Hz)
Operating Temperature	5 °C - 35 °C	5 °C - 35 °C
Interface	SMA905 can customize FC/PC	SMA905 can customize FC/PC
Radiation Characteristics	Numerical aperture NA0.22~0.37	Numerical aperture NA0.22~0.37
Power Consumption	~78VA	~78VA
Preheat Time	40 minutes (deuterium lamp)	40 minutes (deuterium lamp)
Powered by	85~250V AC 50~60Hz	85~250V AC 50~60Hz

Spectral Curve

