

## Deuterium UV Light Source (180-400 nm)

## ATG1001

### Features

- Deep UV spectrum: coverage range is 180-400nm.
- Excellent performance: ultra-stable light source output with peak-to-peak stability less than 0.005%.
- Optical fiber or free space output: ATG1001 supports free space or optical fiber output (SMA905 interface), which is convenient for connection with measurement accessories such as spectrometers and optical fibers.
- Long life: ATG1001 deuterium lamp has a service life of 1000 hours and can be easily replaced.
- Optical fiber: It is recommended to use anti-UV quartz optical fiber produced by Optosky.

### Applications

- UV smoke analyzer
- Scientific research laboratory
- Water Quality Analysis
- Environmental protection equipment

### Description

Optosky ATG1001 deuterium lamp light source adopts the deuterium bulb of Hamamatsu Corporation of Japan, which can produce a stable output spectrum of 180-400nm. Its peak-to-peak stability is less than 0.005% and the drift is only  $\pm 0.5\%/h$ .

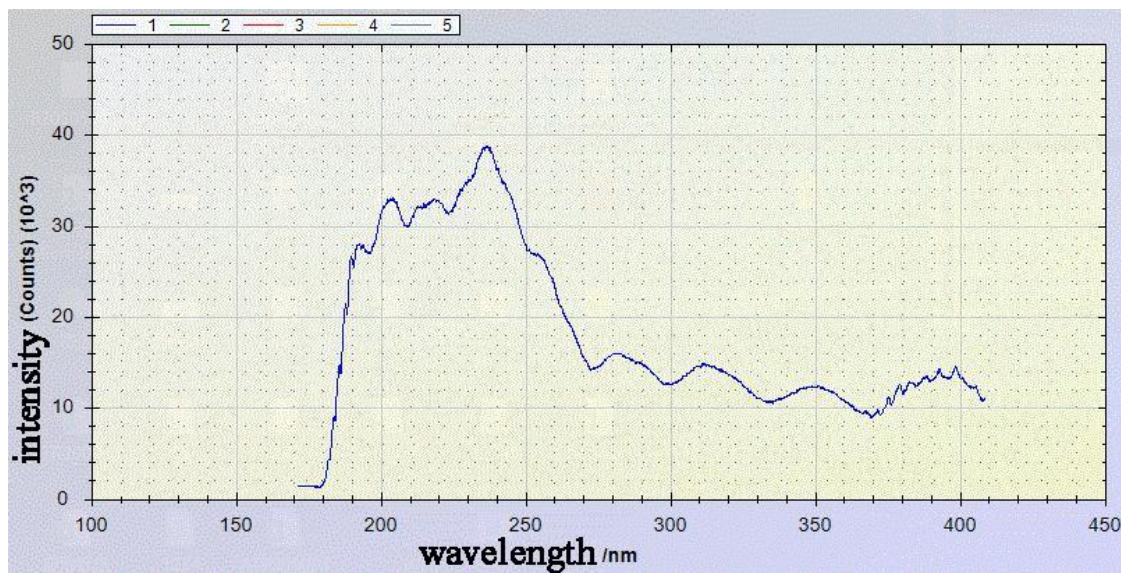
ATG1001 has the characteristics of long life, low light decay, high output power, etc. It can be widely used in traditional desktop spectrometers and field portable miniature spectrometers.

ATG1001 deuterium light source can be equipped with a cuvette holder, which can directly perform transmission absorption of cuvette or filter.



## 1 Parameters

ATG1001	
Size(H):	80mm x 175mm x 140mm
Weight:	3 kg (Power cord not included)
Wavelength range:	190-400 nm
P-P stability	<0.005% at 250 nm
Drift	+/-0.5% per hour at 250 nm
	40 minutes
Power of Deuterium	30 W
Bulb life	3000 hours
Warm-up time	15 minutes
Humidity	5-95% No condensation
Output	SMA905 Standard optical fiber interface
Voltage and power	85-264 V, 50/60 Hz; 60 W



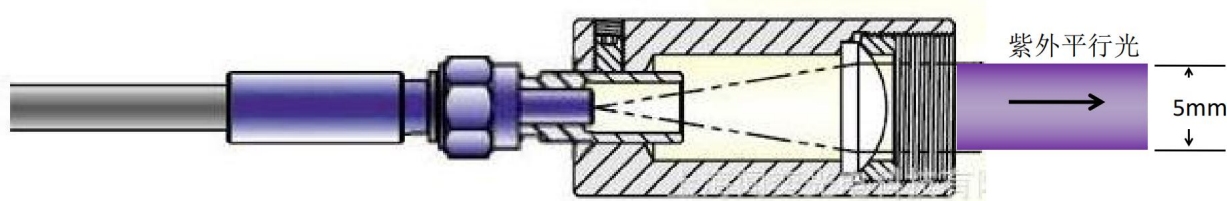
## 2. Other Accessories



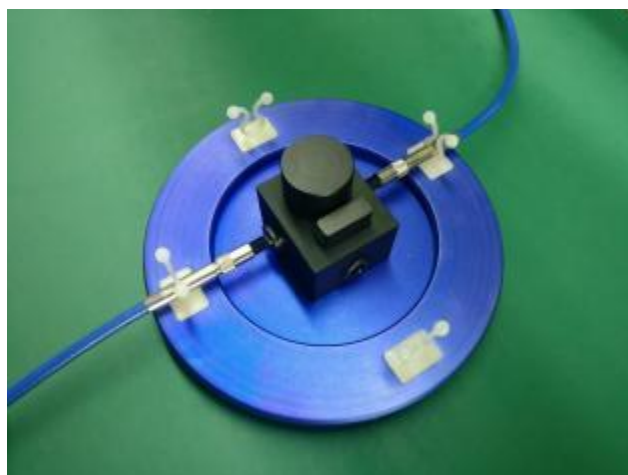
Pic. 2 Customized 1.5 m long 2-to-1 anti-UV fiber.



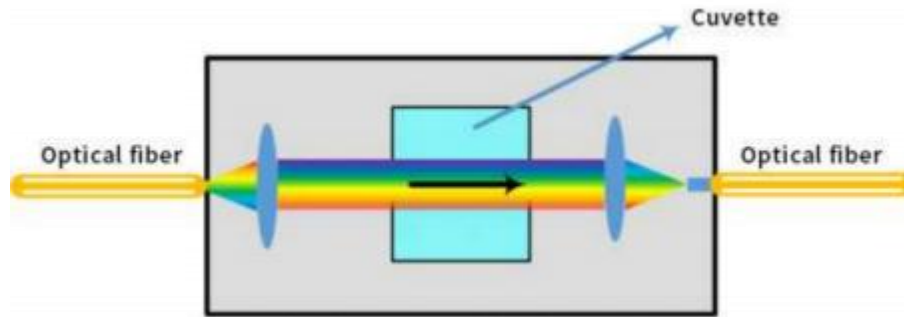
Pic. 3 Collimator for fiber.



Pic. 4 Collimator for fiber.



Pic. 5 Cuvette holder.



**ATP0080 sample cell**