

# DT-MINI-2-GS

## Mini Deuterium Tungsten Halogen Light Source



### ~200-1100 nm Spectral Range

The DT-MINI-2-GS Deuterium Tungsten Halogen Light Source combines the continuous spectrum of an RF-excited deuterium UV light source and a tungsten halogen VIS-NIR light source in a single optical path.

The combined-spectrum sources produce stable spectral output from ~200-2000 nm in a compact package.

### Powerful Output – 0.5 mm Aperture

The DT-MINI-2-GS Deuterium Tungsten Halogen Light Source also utilizes a bulb with a 0.5-mm diameter aperture. It also has a shutter for blocking the light path, which can be controlled via a manual switch or TTL.

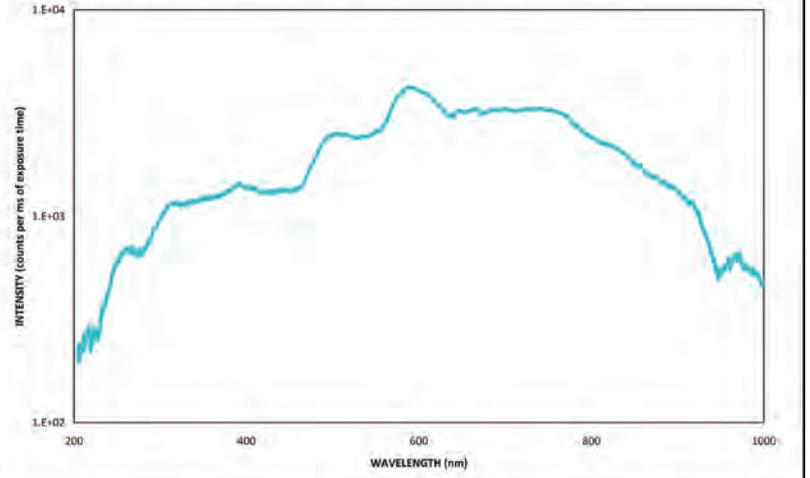
There is also a switch for turning the deuterium source on and off, and one for turning the tungsten halogen source on and off; each switch can be used independently of the other.

#### Specifications

|                        |   |
|------------------------|---|
| Dimensions:            | 140 mm x 50 mm x 125 mm                                   |
| Weight:                | 475 g   |
| Wavelength range:      | 200-410 nm (deuterium); 360-2000 nm (tungsten halogen)    |
| Power consumption:     | 350 mA @ 12 VDC   |
| Output:                | 3.8 watts (deuterium); 1.2 watts (tungsten halogen)       |
| Stability:             | ~1.0% peak-to-peak (over 4 hours) after 30-minute warm-up |
| Time to stable output: | 10 minutes (deuterium); 1 minute (tungsten halogen)       |
| Bulb life:             | ~1500 hours (deuterium); 1500 hours (tungsten halogen)    |
| Ignition delay:        | <2.0 seconds (delay for cold start-up may be longer)      |
| Connector:             | SMA 905   |

Note: Use item code DT-MINI-2-B when ordering replacement bulbs for the DT-MINI series miniature deuterium tungsten halogen light sources.

#### DT-MINI-2-GS Spectral Output



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



#### Technical Tip

The DT-MINI-2-GS is your go-to choice for application setups requiring UV and VIS-NIR illumination.

However, we also offer our USB-DT, which can be used as a standalone source, stacked atop a USB2000+ or USB4000 Spectrometer or connected to your HR- or QE- spectrometer using a breakout box. The latter allows you to control multiple functions through software.

For assistance in selecting the optimum miniature deuterium tungsten halogen light source for your application, please contact an Ocean Optics Applications Scientist.