

Mini Deuterium Tungsten Sources



~200-2000 nm Spectral Range

Our DT-MINI-series Deuterium Tungsten Halogen Light Sources combine the continuous spectrum of a high-powered, RF-excited deuterium light source and a tungsten halogen light source in a single optical path. The combined-spectrum sources produce stable spectral output from ~200-2000, nm in a compact package.

0.5 mm Aperture: More Powerful Output

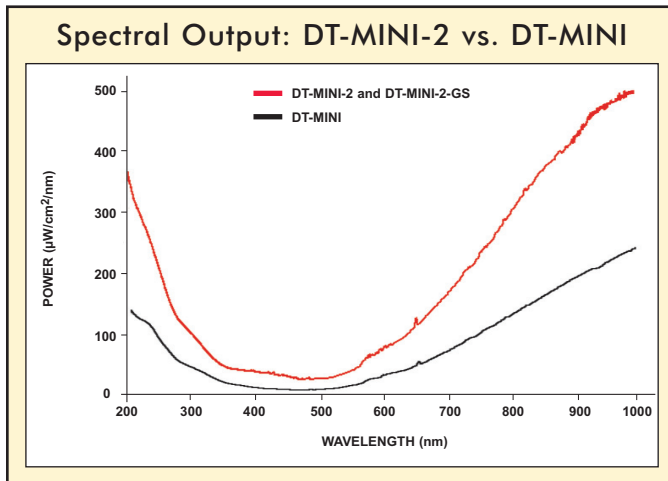
The original DT-MINI was our first foray into a compact and versatile UV-NIR light source, and is still a great choice for a range of applications and measurements. The advantage of the newer DT-MINI-2 is that it uses a bulb with a 0.5 mm diameter aperture, which results in more focused, uniform beam coupling to our optical fibers. Also, the DT-MINI-2 is only \$100 more than the DT-MINI, which we will continue to offer.

Shutter Version

The DT-MINI-2-GS Deuterium Tungsten Halogen Light Source (lower left) also utilizes the bulb with the 0.5-mm diameter aperture. Its added feature is 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 (this can also be accomplished via TTL); each switch can be used independently of the other.

Rack-mount Version

Rack-mount versions of DT-MINI-series lamps are available. These sources can be hard-wired to a spectrometer channel and racked into a Dual Box, Rack Box or Desktop Box with other accessories. For more on rack-mount systems and enclosures.



* The DT-MINI-2-B Bulb can only be used in the DT-MINI-2 and DT-MINI-2-GS sources. Likewise, the DT-MINI-B Bulb can only be used in the DT-MINI and DT-MINI-GS.

Specifications		
	DT-MINI-2	DT-MINI-2-GS
Dimensions:	153.4 mm x 104.9 mm x 40.9 mm	140 mm x 50 mm x 125 mm
Weight:	330 g	475 g
Wavelength range:	200-410 nm (deuterium); 360-2000 nm (tungsten halogen)	200-410 nm (deuterium); 360-2000 nm (tungsten halogen)
Power consumption:	350 mA @ 12 VDC	350 mA @ 12 VDC
Output:	3.8 watts (deuterium); 1.2 watts (tungsten halogen)	3.8 watts (deuterium); 1.2 watts (tungsten halogen)
Stability:	0.3% peak-to-peak (over 4 hours) after 30-minute warm-up	0.3% peak-to-peak (over 4 hours) after 30-minute warm-up
Time to stable output:	10 minutes (deuterium); 1 minute (tungsten halogen)	10 minutes (deuterium); 1 minute (tungsten halogen)
Bulb life:	~800 hours (deuterium); 2,000 hours (tungsten halogen)	~800 hours (deuterium); 2,000 hours (tungsten halogen)
Ignition delay:	<2.0 seconds (delay for cold start-up may be longer)	<2.0 seconds (delay for cold start-up may be longer)
Connector:	SMA 905	SMA 905

