



# D<sub>2</sub><sup>plus</sup>



## Heraeus Deuterium Lamp D<sub>2</sub><sup>plus</sup> Application-specific with quartz or UV glass envelope

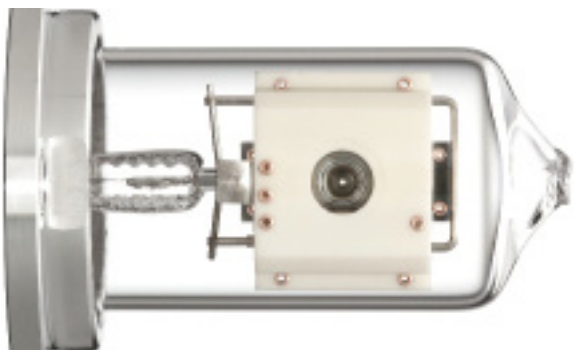
Heraeus has developed the next generation of Deuterium Lamps D<sub>2</sub><sup>plus</sup>, a revolutionary new concept that instrument manufacturers can design into their systems, with the resulting benefits from higher throughput and the highest precision analytical results.

D<sub>2</sub><sup>plus</sup> provides up to 50% more initial intensity and greater than 2x residual intensity compared to conventional Deuterium Lamps.

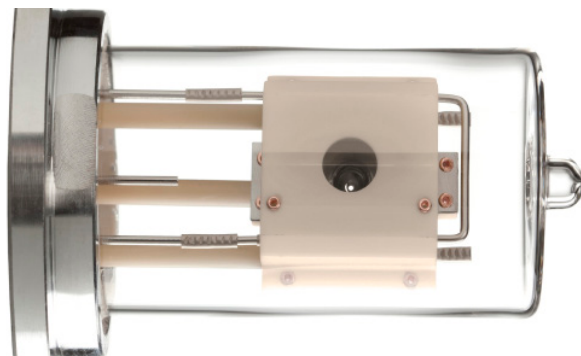
Customers benefit from faster and higher accuracy measurements – even at the end of lamp-life.

### D<sub>2</sub><sup>plus</sup> Deuterium Lamp - Benefits at a glance:

- Less instrument recalibration due to improved intensity maintenance over lifetime
- Better signal to noise ratio
- Shorter sampling time
- Higher throughput
- Highest precision analytical results
- Best price/performance ratio and lowest Cost of Ownership



D<sub>2</sub><sup>plus</sup> Deuterium lamp with quartz envelope

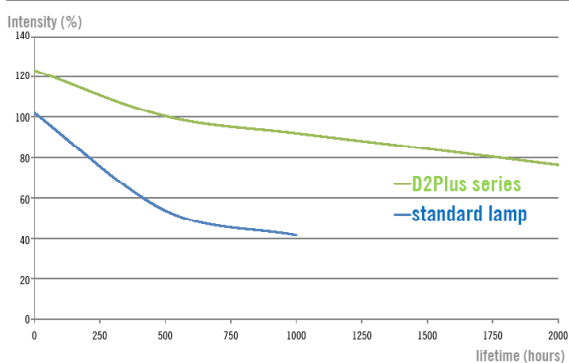


D<sub>2</sub><sup>plus</sup> Deuterium lamp with UV glass envelope

### Features D<sub>2</sub><sup>plus</sup> Deuterium Lamp

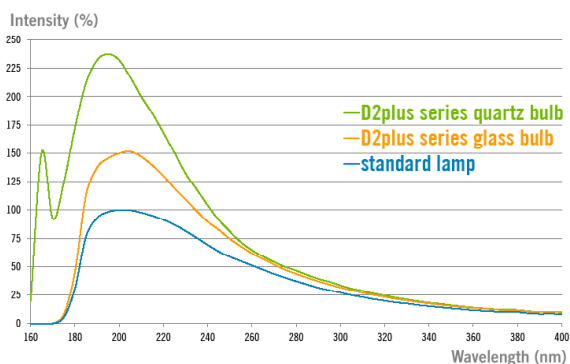
- Up to 50 % higher initial intensity
- Lower noise (STN)
- Highest stability for minimum 2000 hours
- Available with 0.5 and 1.0 mm apertures
- Deep UV version D<sub>2</sub><sup>plus</sup> quartz envelope with ELP technology
- UV-version D<sub>2</sub><sup>plus</sup> with UV-glass envelope
- Highest precision analytical results in UV-Vis spectrophotometers, new design HPLC and the even more demanding UHPLC instruments

### Lifetime Performance D<sub>2</sub><sup>plus</sup> Deuterium Lamp



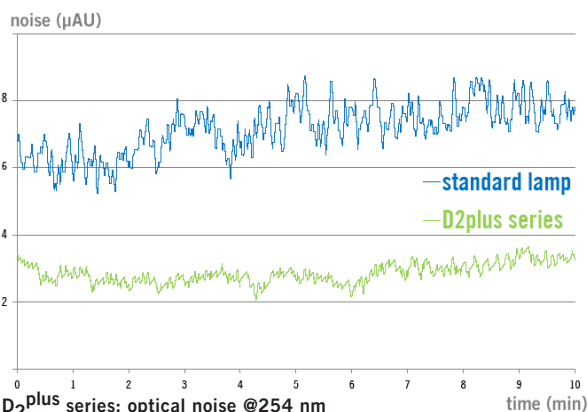
D<sub>2</sub><sup>plus</sup> series: intensity @210nm

### Spectral Comparison D<sub>2</sub><sup>plus</sup> Deuterium Lamp



D<sub>2</sub><sup>plus</sup> series: spectral comparison of radiance

### Optical Stability at 254 nm



D<sub>2</sub><sup>plus</sup> series: optical noise @254 nm

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