Heraeus has developed the next generation of Deuterium Lamps $D_2^{\text{plus}}$, 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.

$D_2^{\text{plus}}$ 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.

Heraeus Deuterium Lamp $D_2^{\text{plus}}$
Application-specific with quartz or UV glass envelope

$D_2^{\text{plus}}$ 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
Features $D_2^{\text{plus}}$ 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 $D_2^{\text{plus}}$ quartz envelope with ELP technology
- UV-version $D_2^{\text{plus}}$ with UV-glass envelope
- Highest precision analytical results in UV-Vis spectrophotometers, new design HPLC and the even more demanding UHPLC instruments

Spectral Comparison $D_2^{\text{plus}}$ Deuterium Lamp

$D_2^{\text{plus}}$ series: spectral comparison of radiance

Optical Stability at 254 nm

$D_2^{\text{plus}}$ series: optical noise @254 nm

Lifetime Performance $D_2^{\text{plus}}$ Deuterium Lamp

$D_2^{\text{plus}}$ series: intensity @210nm

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