

Multiple batches can be tested simultaneously under the same conditions!! LED optical source for photoreaction Iris-MG



Conventional mercury-lamp irradiation systems deliver strong optical power but generate excessive heat, which can thermally affect samples and require continuous water cooling with leakage risk.

To overcome these limitations and ensure safer, more stable operation, our system adopts high-power LEDs as the optical source.

The LEDs are arranged cylindrically and driven by our proprietary constant-current / constant-optical-power controller, enabling reproduction of mercury spectral lines and easy adjustment of light intensity without the use of filters. Optional LED modules allow wavelength customization to suit specific experimental needs.

Inside the chamber, each test tube rotates counterclockwise while the stage rotates clockwise, ensuring uniform and stable illumination across the entire sample.

An optional magnetic stirrer can also be integrated for enhanced mixing during irradiation.

*This product is developed in close collaboration with Prof. Osamu Ishitani (Hiroshima Univ.) and Dr. Yusuke Tamaki(AIST)

Product Specifications

Light source

5 types of wavelength 20 LEDs

• 365nm • 405nm • 430nm • 530nm • 590nm

LED life-span

40,000 hours

Internal rotation mechanism

DC motor and belt drive

Revolution Speed

variable

Temperature Basin

Within ambient temperature + 2degC
(Air blower control)

Timer function in irradiation time

From 1 to 9999minutes

Supply voltage

100-240VAC +/- 5%, 50 or 60Hz

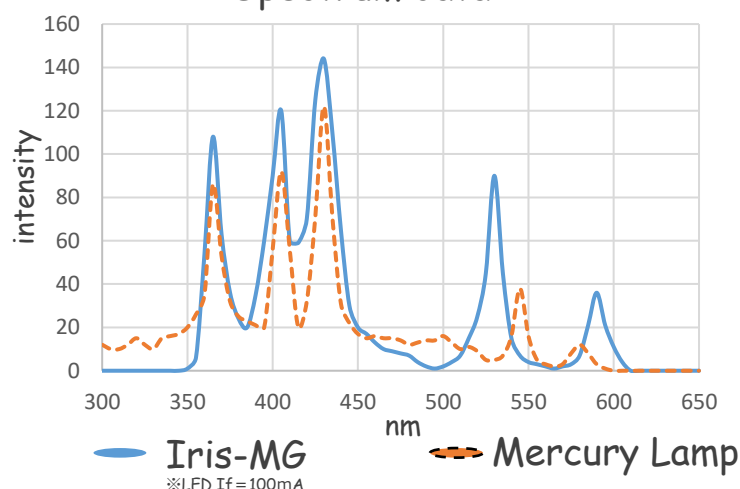
Overall Size

442(W)×546(D)×539(H)mm

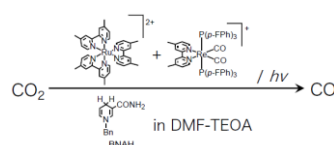
Weight

20kg

Spectrum data

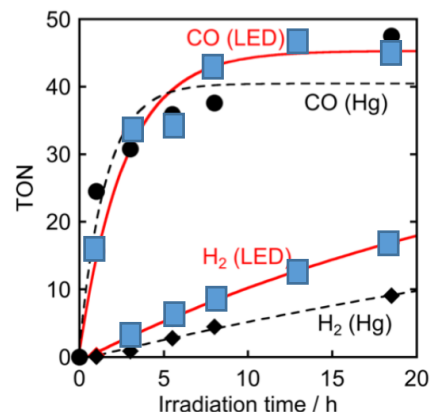


Reaction comparison with mercury lamp



■ Iris-MG

● Mercury lamp



Applications & inquiries

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