



**Dr. Gröbel**  
UV-Elektronik GmbH

*we apply photonics.*

# Irradiation Chamber BS-05



*Fig. 1: UV/VIS irradiation chamber BS-05 with dose control UV-MAT*

The irradiation chamber BS-05 is a large, robust equipment for the time- or dose-controlled uniform irradiation of samples with UV or visible light. The chamber is equipped with a quartz glass rotating holder especially suited for the all-side irradiation and steady mixing of liquid samples in bags. Other holders are optionally available. The interior irradiation chamber has a footprint of 80x60 cm and a height of 30 cm.

The chamber can be fully equipped for one of the spectral regions UV-C, UV-B, UV-A or daylight D65 in order to get the highest irradiance. Alternately, the use of two separately controlled lamp groups for different spectral regions allows an especially flexible operation of the chamber.

The optional irradiation controller UV-MAT (see separate product sheet) controls the dose for two different spectral regions independently. The UV-MAT measures the dose with precise sensors calibrated against a PTB (Physikalisch-Technische Bundesanstalt) reference (see product sheets: Radiometer UV and VIS Sensors).

## Applications

- Irradiation of bacteria and cell cultures
- UV irradiation of liquid medical samples
- Uniform all-side UV hardening



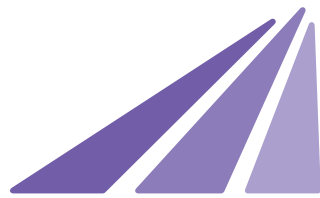
*Fig. 2: Quartz glass rotation holder 50x25 cm*

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Irradiance every 5 cm

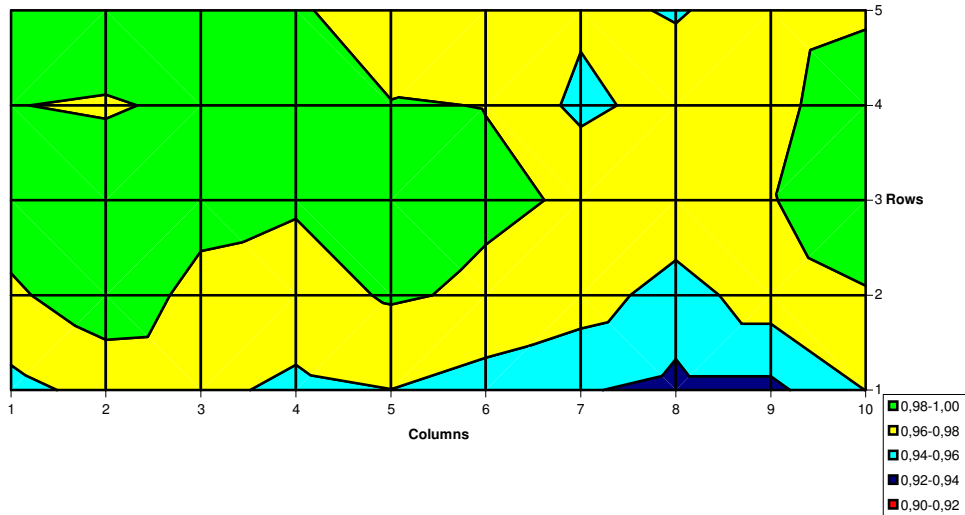


Fig. 3: Irradiance profile at the quartz glass holder. Typical variations are +/- 4% only.

### Technical Data

Interior chamber: 80 x 60 x 30 cm  
Holder size: 50 x 25 cm  
Irradiance: 6 mW/cm<sup>2</sup> UV-A  
Dimensions: 115 x 80 x 151 cm  
Weight: about 80 kg  
Mains: 230 VAC, 6 A  
Power consumption: 900 W  
Operation temp.: 10 to 40 °C  
Humidity: < 80%  
Non-condensing

### Part number

Irradiation chamber BS-05 860805

### Options:

- 2 spectral regions
- Dose control UV-MAT
- Custom holder

Please indicate options and spectral regions at ordering.

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