



UV Irradiation Chamber BS-09



Fig. 1: UV/VIS irradiation chamber BS-09

The irradiation chamber BS-09 is a powerful system for highly intense UV/VIS irradiation of larger samples. Typical UV/VIS irradiances are above 500 W/m^2 at an irradiated area of $35 \times 45 \text{ cm}$. Clearly higher irradiances can be generated in closer distances to the lamp.

Within the chamber, the samples are blown with air to avoid to strong heating during irradiation. The lamp can be exchanged within a few minutes using the plug-in lamp module. The lamp power is controlled to guarantee constant irradiation.

Unwanted spectral ranges such as UV-C are filtered out. The spectrum can be adjusted to normalized irradiances e.g. in accordance with EN ISO 4892, IEC 61345 or IEC 61215 by additional filters.

Applications

- Photostability of plastics and other materials
- Irradiation tests of assemblies and modules
- Irradiation of semiconductors and solar cells
- Irradiation of biological or medical samples

Technical Data

Irradiated area:	35 x 45 cm
Inner height:	70 cm
Irradiances:	> 500 W/m^2 total* > 250 W/m^2 UV-A/B*
Illuminance:	> 80 klx*
Dimensions:	87 x 52 x 130 cm
Mains:	3x400 VAC, 16 A
Power consumption:	2500 W
Lamp:	2 kW metal halogenide high pressure
Lamp lifetime:	typical 750 hours
Operation temp.:	10 bis 40 °C
Humidity:	< 80% Non-condensing

* At the base plate. Higher irradiances in shorter distance to the lamp.

Part number

Irradiation chamber BS-09 860809

