

Irradiation System BioSun

Description

BioSun is a complete, microprocessor-controlled UV irradiation system for Petri dishes and microplates.

The gold standard for UV irradiation of cells.

Based on a programmable microprocessor, the system constantly monitors the UV light emission. The irradiation stops automatically when the energy received matches the programmed energy. Thanks to its advanced UV sensors, the irradiation cycles are perfectly reproducible, regardless of the intensity fluctuation of the UV source. Just program your energy and Bio-Sun delivers it!



Bio-Sun

Specifications

- Irradiation modes:
312 nm, 365 nm or 312 / 365 nm combined, dose-oriented programmable
- UVC 254nm germicidal lamps for tray sterilisation
- Fully microprocessor controlled, thus perfectly reproducible irradiation results
- Sterilisation of the sample chamber
- UV - safety shutdown when opening the sample chamber
- Pull-out, large sample drawer with stainless steel holder
- Extremely homogeneous UV illumination
- Temperature control: maximum temperature of 30°C in the radiation area at 20°C room temperature
- Calibrated UV sensors
- Continuous acquisition of UV sensor data, 4 measurements per second
- Display of time, UV intensity, temperature and energy
- Epoxy-coated aluminium housing

Optional

Optional equipment USB 2.0 interface with control software:

Programming and control via PC, graphic recording of irradiation processes, Database structure for data storage.



Interface for data monitoring
(PC not included in delivery)

Benefits

- Scientific grade UV irradiation system
- Constant monitoring of the received energy against the programmed energy
- Monitoring of temperature, UV intensity and time course
- Irradiation time less than 40 sec for a programmed dose (energy) of 150 mJ/cm²
- Powerful cooling system
- Optional software connection for data monitoring and recording
- User and maintenance friendly

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Technical Data

Irradiation area	Irradiation area for Petri dishes: 260 x 120 mm
	Irradiation area for microplates: 260 x 90 mm
Irradiation distance	25 mm
Dimensions BioSun System	1.100 x 500 x 600 mm
Voltage	230 V
Part No.	110.0172

Model	UV Irradiation	Irradiation homogeneity
BioSun ++	4 x 30 W 365 nm 2 x 30 W 312 nm 1 x 30 W 254 nm	312 / 365 nm: $\pm 7 / 7\%$
BioSun.UV-H	4 x 30 W 365 nm 1 x 30 W 312 nm 2 x 30 W 254 nm	312 / 365 nm: $\pm 5 / 7\%$