

Irradiation Systems 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.

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
- 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

Models

BioSun ++:

The TOP system for controlled UV irradiation of cultured cells

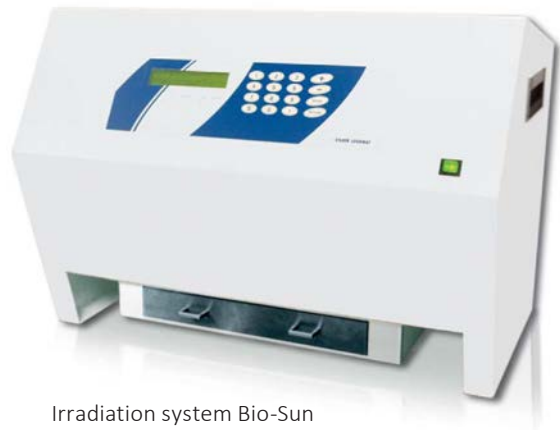
BioSun UV.H:

The gold standard for controlled UV irradiation of cultured cells

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.



Irradiation system Bio-Sun



Interface for data monitoring
(PC not included in delivery)

Benefits

- Large irradiation area, homogeneously illuminated
- Continuous control of the UV irradiation and data acquisition by calibrated UV sensors, re-calibration possible with certificate
- Irradiation time less than 40 seconds for a programmed dose (energy) of 150 mJ/cm²
- Up to 6 UV measurements per second
- Tray temperature does not exceed 30°C (86°F) for room temperature of 20°C (68°F)
- Optional interface enabling connection between the BIO-SUN and a computer for data monitoring and recording

Irradiation Systems BioSun



Technical Data

Model	BioSun ++	BioSun UV.H
Irradiation area for Petri dishes	260 x 120 mm	260 x 120 mm
Irradiation area for microtiter plates	260 x 90 mm	260 x 90 mm
UV sources	4 x 30 Watt, 365 nm 2 x 30 Watt, 312 nm	4 x 30 Watt, 365 nm 1 x 30 Watt, 312 nm
Irradiation homogeneity	312 / 365 nm: $\pm 7 / 7\%$	312 / 365 nm: $\pm 5 / 7\%$
UV sterilization of the irradiation area	1 x 30 Watt, 254 nm Uv tube	2 x 30 Watt, 254 nm Uv tube
Irradiation distance	25 mm	25 mm
BioSun system dimensions	1.100 x 500 x 600 mm	1.100 x 500 x 600 mm
Voltage	230 V	230 V
Order No.	110.0172	on request