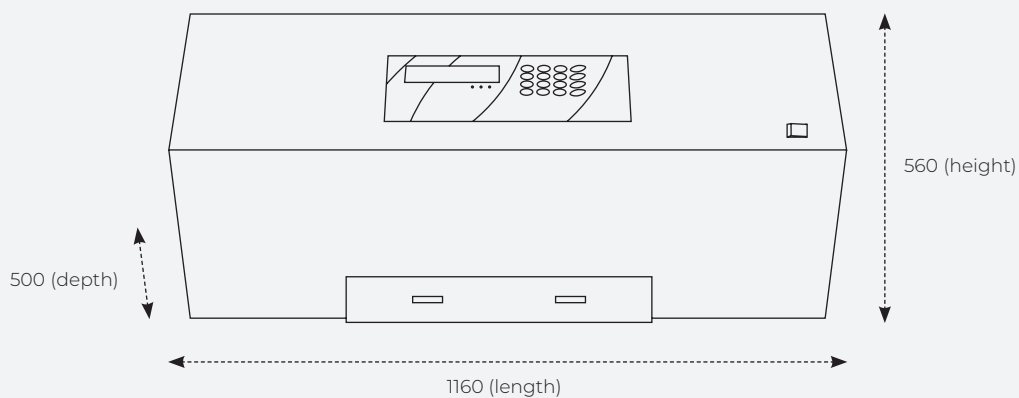


BIO-SUN

Dimensions

Weight : 42 kg

Weight : 60 kg



Features overview

- ◆ Dual wavelength options: 365nm and 312nm UV irradiation
- ◆ Optional 254nm UV source for sterilization
- ◆ Stainless steel receptacle drawer
- ◆ Control screen displaying time, energy, temperature, and illumination settings
- ◆ Programmable keyboard (in Joules)
- ◆ Electronic UV control and safety features
- ◆ Optional data acquisition card for connection to a computer

UV IRRADIATION SYSTEMS

Comparative specs table

SPECS	BIO-SUN ++	BIO-SUN UVH
Comparison	Suitable for applications requiring more powerful UV irradiation	More accurate for sensitive samples and short exposure times
Frequency of measures	4 measures/second	6 measures/second
Intensity measurement range	<ul style="list-style-type: none"> ◆ Accuracy and linearity: $\pm 0.2\%$ ◆ Automatic range change 	
Programming	<ul style="list-style-type: none"> ◆ Minimum programmable quantity : 11 mJ/cm² ◆ Programming range: 0.011 to 99.99 J/cm² 	
UV Sources	<ul style="list-style-type: none"> ◆ UVA (365nm): 5 mW/cm² ◆ UVB (312 nm): 2.7 mW/cm² ◆ UVA+UVB (365nm and 312nm): 5.6 mW/cm² at 365nm and 2.7 mW/cm² at 312nm ◆ 254nm (sterilization) 	<ul style="list-style-type: none"> ◆ UVA (365nm) : 5 mW/cm² ◆ UVB (312nm) : 1 mW/cm² ◆ UVA+UVB (365nm and 312nm): 5.6 mW/cm² at 365nm and 1.3 mW/cm² at 312nm ◆ 254nm (sterilization)
Irradiation surface for Petri dishes	260x120 mm, height 25 mm	
Maximum irradiation surface for well plates	260x90 mm, height 25 mm	
Sensors	<ul style="list-style-type: none"> ◆ Accuracy of the measure : $\pm 5\%$ (standard LNE) ◆ Linearity : $\pm 0,5\%$ ◆ Temperature Coefficient : $\pm 0,05\%$/°C from 0 to 40°C 	

UV IRRADIATION SYSTEMS

Available references

Irradiation systems	Bio-Sun ++ irradiation system 365/312nm <ul style="list-style-type: none">◆ UVA (365nm)◆ UVB (312nm)◆ UVA+UVB
	Bio-Sun UV-H irradiation system 365/312nm <ul style="list-style-type: none">◆ UVA (365nm)◆ UVB (312nm)◆ UVA+UVB
Options	<ul style="list-style-type: none">◆ Bio-Sun software with acquisition◆ Sensor calibration◆ 254nm UV source for sterilization

Operating Modes

The Bio-Sun offers several programmable modes for different irradiation requirements :

- ◆ Sterilization Mode : Allows 254nm UV sterilization. Minimum time: 1 min; Maximum time: 99 min.
- ◆ Programming Mode : Configure irradiation energy levels in J/cm² based on chosen wavelength. Values can be programmed for each UV source and stored in memory.
- ◆ Cycle Mode : Enables repeated irradiations with a stored energy value, allowing multiple cycles with the same parameters.

Safety Warnings

The Bio-Sun systems must be connected to a grounded outlet for user safety. Check that the local voltage matches the device (230V~50Hz). Position the system with at least 30 cm of space at the back for airflow. Avoid exposure to moisture, and disconnect from power if unused for extended periods. Protect eyes and skin from ultraviolet rays, and ensure adequate ventilation around the unit to avoid overheating. All connected equipment must comply with IEC standards for safety.

UV IRRADIATION SYSTEMS

Maintenance

Ensure regular maintenance to prolong system life and ensure accuracy. Maintenance includes :

- ◆ Regularly dusting ventilation grills
- ◆ Cleaning drawer surfaces with a soft cloth
- ◆ Annual calibration of UV cells (recommended)
- ◆ Replacing UV tubes when needed, following specific steps for disassembly and reassembly

Warranty

The Bio-Sun systems, excluding specific consumable parts, are warranted for two years against material or manufacturing defects. This warranty excludes damage caused by improper use or unauthorized repairs. Use of non-original parts or consumables voids the warranty.

Declaration of Conformity

The Bio-Sun systems comply with the requirements of directives 89/336/EEC, 73/23/EEC, and EN 61010-1, related to electromagnetic compatibility and low voltage.



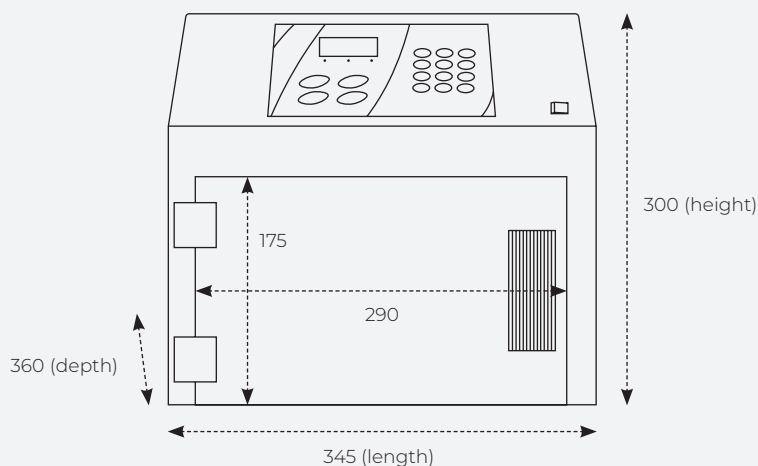
WARNING: UV radiation can be dangerous for unprotected eyes and skin, therefore we recommend the user to wear UV protective glasses (LP-70) or face-shield (MP-1000).

UV IRRADIATION SYSTEMS

BIO-LINK

Dimensions

Weight : 10 kg



Features overview

- ◆ Microprocessor control
- ◆ Precise irradiation in either energy (Joules/cm²) or time (seconds)
- ◆ Preset programme for dosage of 0.120 J/cm² to optimize nucleic acid immobilization
- ◆ Manual setting of UV energy or time exposure
- ◆ Storage of the last UV setting
- ◆ Tactile membrane keypad
- ◆ Large L.E.D. readout
- ◆ Protective quartz disk on the UV sensor cell
- ◆ Spacious UV exposure chamber in stainless steel
- ◆ Safety interlock door with UV blocking observation window
- ◆ Automatic restart with no loss of information if breaking-off of circuit
- ◆ Dual safety fuses
- ◆ UV wavelength interchangeability

UV IRRADIATION SYSTEMS

UV Source	5 x 8-watt Either in 254nm (UV-C), 312nm (UV-B), 365nm (UV-A)
Power	80 W
Energy Display	2 measurement ranges : <ul style="list-style-type: none"> ◆ from 0.025 to 9.999 Joules ◆ from 0.025 to 99.99 Joules
Exposure Time Display	2 measurement ranges : <ul style="list-style-type: none"> ◆ from 00.10 to 99.59 minutes/seconds ◆ from 000.1 to 599.5 minutes/seconds
Manual Control	Manual energy exposure adjustment <ul style="list-style-type: none"> ◆ min. 0.025 Joules / max. 99.99 Joules Manual exposure time adjustment <ul style="list-style-type: none"> ◆ min. 10 Seconds / max. 599 Minutes
Presets	<ul style="list-style-type: none"> ◆ UV energy : 9 presets ◆ UV exposure time : 9 presets

Available references

BLX Multichannel Bio-Link crosslinker	+ Set of 254nm BLX UV tubes + calibration
	+ Set of 312nm BLX UV tubes + calibration
	+ Set of 365nm BLX UV tubes + calibration

UV IRRADIATION SYSTEMS

Safety Warnings

The Bio-Link systems must be connected to a wall outlet having protective earth terminal. Connecting to ground is an obligatory protection. Never obstruct the air admission grids of the unit. Avoid exposure to moisture, and disconnect from power if unused for extended periods. Disconnect the power cord by grasping the plug. Never pull the cord itself. Protect eyes and skin from ultraviolet rays, and ensure adequate ventilation around the unit to avoid overheating. All connected equipment must comply with IEC standards for safety.

Maintenance

Ensure regular maintenance to prolong system life and ensure accuracy. Maintenance includes :

- ◆ Regularly dusting ventilation grills
- ◆ Cleaning the outside of the Bio-Link with a slightly wet sponge, cleaning the stainless steel chamber and the viewing window with a soft cloth and alcohol
- ◆ Replacing UV tubes when needed, following specific steps for disassembly and reassembly

Warranty

The Bio-Link systems, excluding specific consumable parts, are warranted for two years against material or manufacturing defects. This warranty excludes damage caused by improper use or unauthorized repairs. Use of non-original parts or consumables voids the warranty.

Declaration of Conformity

The Bio-Link systems comply with the requirements of the EC Directive 2004/108/EEC, 2006/95/EEC and EN 61010-1 (electromagnetic compatibility and low voltage).



WARNING: UV radiation can be dangerous for unprotected eyes and skin, therefore we recommend the user to wear UV protective glasses (LP-70) or face-shield (MP-1000).