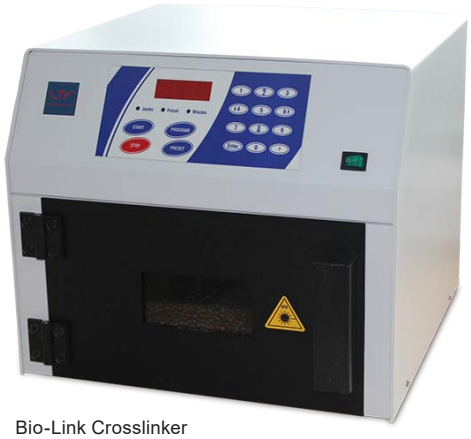
UV Crosslinker

# Bio-Link

## Description

The emission of the UV light is constantly monitored by a UV sensor which is controlled by a microprocessor. The irradiation stops automatically when the energy received matches the energy programmed. The irradiation cycler are perfectly reproducible and are independent from intensity fluctuations of the UV source. Just programme the energy and Bio-Link delivers it!

Bio-Link combines the latest technology with a very high quality of the components. UV exposure chamber in stainless steel, protective quartz disk on the UV sensor cell, highly resistant tactile membrane keypad. The readout display and the large number of presets, either in energy unit (Joules/cm²) or in time unit (seconds), makes the Bio-Link a very simple instrument to use while very powerful.
The UV light intensity is captured in a well of light above the irradiation chamber, so that the UV cell measure is collected from all the UV tubes and not just one. This also protect the UV cell from any dirt which can enter the chamber.



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## Benefits

- **Microprocessor Control:**
  The programmable microprocessor control constantly monitors the UV radiation energy. The irradiation stops automatically when the set energy is reached.

- **Reproducibility:**
  Thanks to the UV sensor, the irradiation cycles are perfectly reproducible, regardless of possible intensity fluctuations of the UV source.

- **Consistent measurements**
  The radiated UV energy is constantly measured and readjusted if necessary. This continuous control compensates for fluctuations in UV radiation and the aging of the UV tubes. The result is a perfectly reproducible UV dose or time unit.

## Specifications

- Microprocessor control
- Precise irradiation either in energy (Joules/cm²) or in time (seconds)
- Preset program for doses of 0.120 J/cm² for optimal nucleic acid immobilisation
- 9 preset programs for UV energy exposure
- 9 preset programs for time exposure
- Manual setting of UV energy or time exposure
- Storage of the last UV setting
- Tactile membrane keypad
- Large LED display
- 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 (254 nm, 312 nm oder 365 nm)

## Applications

- Crosslinking of DNA and RNA to nylon or nitro-cellulose membranes for Southern, Northern, Dot and Slot blots
- Nicking of ethidium bromide stained DNA in agarose gels
- Partial endonuclease digest by formation of cleavage-inhibiting thymine dimers (gene mapping)
- RecA mutation screening
- Elimination of PCR contamination
- UV sterilisation
- UV curing of polymers



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## Technical Data

| | |
|---|---|
| UV Source | 5 x 8 Watt<br>254, 312 or 365 nm |
| Max. UV Energy | Two Measurement Levels:<br>0 – 9,999 J or 0 – 99,99 J |
| Manual Control | Energy and time manually adjustable |
| Default Settings | 9 presets each for energy and time |
| Material Irradiation chamber | Stainless Steel |
| Interior dimensions | 14.5 x 33 x 26 cm (H x D x W) |
| Exterior dimensions | 30.5 x 36 x 35 cm (H x D x W) |
| Weight | 10.5 kg |
| Power | 230 V, 50/60 Hz |

## Models

| Model | Wave-length | Filter Size | Item No. |
|---|---|---|---|
| Bio-Link 254 | 254 nm | 305 x 415 x 280 mm | 110.0079 |
| Bio-Link 312 | 312 nm | 305 x 415 x 280 mm | 110.0078 |
| Bio-Link 365 | 365 nm | 305 x 415 x 280 mm | 110.0080 |


Eye and face protection is essential for anyone working with ultra-violet sources.

Short-wave UV radiation in particular can cause injury to unprotected eyes and skin.



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