

UV Crosslinker Bio-Link

Description

The Bio-Link Crosslinker is a UV irradiation system designed primarily for binding nucleic acids to membranes and for eliminating PCR contamination. Its innovative design ensures unique performance characteristics.

Special Feature:

By simply swapping the UV tubes, the Bio-Link can be reprogrammed to the corresponding wavelength. Therefore, you do not need a new device – merely a recalibration.



Bio-Link Crosslinker

Benefits

• Microprocessor Control

The programmable microprocessor continuously monitors UV light emission. Irradiation stops automatically as soon as the accumulated energy reaches the programmed energy value.

• Reproducibility

Thanks to the UV sensor, irradiation cycles are perfectly reproducible—regardless of fluctuations in the intensity of the UV source.

• Consistent Measurements

The UV light sensor is positioned above a light shaft at the top of the irradiation chamber. UV measurements are thus captured across all UV tubes—rather than from just a single one—ensuring greater consistency!

• Ease of Use

The extensive selection of presets—configurable in either energy or time units—makes the Bio-Link an exceptionally user-friendly yet powerful device.

• Construction

The irradiation chamber is constructed from stainless steel; the UV sensor is protected by a quartz window; and the keypad features an extremely durable, touch-sensitive surface.

Applications

- Crosslinking of DNA and RNA to nylon or nitrocellulose 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

Specifications

- Precise irradiation control based on energy (Joules/cm²) or time (seconds)
- Preset program for 0.120 J/cm² to optimize nucleic acid immobilization
- Manual setting of energy or irradiation duration
- Storage of the most recently used UV setting
- UV sensor protected by a quartz window
- Spacious stainless steel irradiation chamber
- Safety shut-off of UV light upon door opening
- UV-impermeable observation window
- Automatic restart after power failure
- Available in 3 different UV wavelengths (254 nm, 312 nm, or 365 nm)
- Large LED display

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Display Bio-Link

Technical Data

UV source	5 x 8 Watt
Wavelength optional	254 nm, 312 nm or 365 nm
Energy display	Two measurement ranges • 0.025 – 9.999 Joules • 0.025 bis 99.99 Joules
Exposure time display	Two measurement ranges • 00.10 – 99.59 min/sec • 000.1 to 599.5 min/sec
Manual control	• Manual energy exposure adjustment min. 0.025 Joules / max. 99.99 Joules • Manual exposure time adjustment min. 10 Seconds / max. 599 Minutes
Presets	• 9 presets for UV energy • 9 presets for UV exposure time
Material chamber	Stainless Steel
Internal Dimensions	290 x 175 mm (W x H)
External Dimensions	345 x 360 x 300 mm (W x D x H)
Weight	10 kg
Power	80 W
Power connection	230 V, 50/60 Hz

Models

Model	Wavelength	Order No.
Bio-Link 254	254 nm	110.0079
Bio-Link 312	312 nm	110.0078
Bio-Link 365	365 nm	110.0080



Eye and face protection is essential for anyone working with ultraviolet sources.

In particular, short-wave UV radiation can lead to injuries to unprotected eyes and skin.