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QUALITEST™

Crosslinker UV



STANDARDS

IEC 61010-1

IEC 61326-1

UL 61010-1

Crosslinker UV - QualiCL™ UV

Crosslinker UV systems deliver controlled UV energy to bond nucleic acids to membranes and support repeatable molecular biology workflows. Crosslinker UV - QualiCL™ UV (Pro) combines timed or energy-based exposure control, multiple wavelength options, and a compact benchtop chamber for consistent results across blotting, sterilization, and UV-driven reactions.

Labs often choose a Crosslinker UV when they need repeatable UV dosage, fast run-to-run setup, and safer operation compared with ad-hoc UV boxes. The system is designed around a microcomputer-controlled exposure engine and a sealed irradiation chamber to help standardize UV exposure conditions.

APPLICATIONS

Crosslinker UV - QualiCL™ UV Applications

Membrane crosslinking for blotting workflows

Use controlled 254 nm exposure to immobilize DNA/RNA on nylon or nitrocellulose membranes after transfer. This supports downstream hybridization, wash steps, and imaging with more consistent signal retention versus uncontrolled UV sources.

DNA/RNA-protein crosslinking for interaction studies

Apply a defined UV dose to form covalent bonds between nucleic acids and proteins for capture-based workflows and related assays. UV at 254 nm is widely used for nucleic-acid/protein crosslinking in research methods.

UV decontamination and surface sterilization (PCR contamination control)

Run quick UV exposure cycles to reduce nucleic-acid carryover on tools, chambers, and selected lab items. This supports cleaner PCR setups and routine contamination control programs.

UV-based reactions and method development

Use optional wavelengths (365 nm / 312 nm) when protocols specify UVA/UVB exposure windows. This is common in troubleshooting photoreaction sensitivity, optimizing dose response, or adapting legacy protocols to a controlled enclosure.

Blue-light adhesive cutting support (optional module)

Use the blue-light cutting area for safer gel handling workflows where blue-light excitation is preferred over UV for sample integrity. The integrated module supports defined cutting space and stable illumination parameters.



Standards and compliance

- IEC 61010-1 (Safety requirements for electrical equipment for measurement, control, and laboratory use).
- UL 61010-1 (U.S. safety adoption aligned to IEC 61010-1).
- IEC 61326-1 (EMC requirements for laboratory and measurement equipment).

FEATURES

Crosslinker UV - QualiCL™ UV Key features

- Selectable UV wavelengths for protocol flexibility, with a primary 254 nm configuration and optional 365 nm and 312 nm support.
- Time-based and energy-based exposure control to match how your lab defines dosage and repeatability.
- Stored program settings for fast recall of validated methods and multi-user consistency.
- High-uniformity lamp array designed to deliver stable exposure intensity across the working area.
- Operator safety design supporting enclosed exposure and controlled access during irradiation cycles.
- Optional blue-light cutting module with defined cutting area and long-life LED illumination for gel handling workflows.

THEORY & METHOD

Theory and method

A Crosslinker UV applies ultraviolet radiation at a controlled wavelength and dose to trigger photochemical reactions. For membrane fixation, UV exposure promotes bonding that helps immobilize nucleic acids on the membrane surface for

downstream hybridization steps.

For nucleic acid-protein interaction workflows, 254 nm UV can induce covalent crosslinks between nucleic-acid bases and nearby proteins. This enables capture and enrichment of complexes for follow-up analysis, with the final signal quality strongly influenced by dose consistency and exposure geometry.

TECHNICAL SPECIFICATIONS

Crosslinker UV - QualiCL™ UV Technical specification

Parameter	QualiCL™ UV (Pro)
UV wavelength	254 nm (optional 365 nm, 312 nm)
Irradiation time measurement range	0-999.9 min
UV radiation energy	Up to 5 mW/cm ²
UV light source	6 × 8 W lamps
UV exposure energy settings / UV exposure time settings	50 energy settings and 50 time settings, storable
Exposure energy measurement range	0-99.99 J/cm ²
Exposure time measurement range	0-999.9 min
Blue-light adhesive cutting function module	Cutting area 180 mm × 140 mm; blue light wavelength 470 nm; LED lifespan 60,000 h; one-sided illumination



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