

## Crosslinker CL-1: Save and easy to use

- ◆ Easy handling: Only two switches: one for Intensity and one for Start
  - ◆ Automatic safety cut-off of UV radiation when tray is opened
  - ◆ Low need of repairs because sensor is protected from mechanical defects
  - ◆ Setting of energy (J/cm<sup>2</sup>) or time (s)
  - ◆ High lifespan due to durable sensor
  - ◆ High reproducibility due to microprocessor control
  - ◆ Pull-out tray and housing made of stainless steel
  - ◆ Large-size tinted and UV tight front panel
- ◆ **NEW: Available in 3 wave lengths (254, 312 (302) and 365 nm)**

All previously available crosslinkers had one general disadvantage: for measuring the UV radiation was used a sensor that was exposed to the UV radiation and thus aging itself. Over the course of time this fact alone led to different results in the measurements of UV intensity.

The new Crosslinker CL-1, developed by Herolab, offers the solution with its **unique principle of measuring the UV radiation**: for the exact determination of the emitted UV radiation during the measurement **the also emitted visible light is being detected**. The aging of the detector, caused by UV radiation can thus be excluded.

Since the ratio of emitted UV radiation to visible light is invariable, the **emitted UV power is being controlled at a constant level**. If this is no longer possible (e. g. due to the natural aging of the gas inside the tubes, complete black-out of tubes) a control lamp lights up and signals the user to exchange the tubes.



The Herolab Crosslinker CL-1 is really easy to handle: UV energy (in J/cm<sup>2</sup>) and time (in s) can be preset by turning a knob and a touch on the Start button activates the crosslinker. The **energy transfer** is constantly monitored and **switched off when the preset energy amount is reached**.

Thus the Crosslinker can be used for the **rapid and reproducible fixing of nucleic acids to membranes using UV light** with a wavelength of 254 nm. (Other wavelengths are available on request.) The hybridization signal is 5 to 10 times higher compared to conventional methods using the UV Crosslinking application (e.g. baking).

All products built by Herolab carry the CE sign. Herolab has its own Quality Management System which is according to ISO 9001. Herolab reserves the right to change technical specifications and prices without prior notice.

## Applications:

- Short wave (254 nm): Sterilization, UV crosslinking of membranes
- Medium wave (312/302 nm): Photochemical reactions, UV crosslinking
- Long wave (365 nm): UV curing, non-destructive testing

## Available Models:

Model	Cat. No. 230 V	Cat. No. 115 V, 60 Hz	Light Sources
CL-1 – 254 nm	31 00 100	31 01 100	6 x UV Tubes 8 W, 254 nm
CL-1 – 312 (302) nm	31 00 200	31 01 200	6 x UV Tubes 8 W, 312 (302) nm
CL-1 – 365 nm	31 00 300	31 01 300	6 x UV Tubes 8 W, 365 nm



## Technical Data:

- **Housing Dimensions (WxDxH):** 36.5 x 35.5 x 30.0 cm
- **Working Area (WxDxH):** 32 x 25 x 14 cm
- **Weight:** approx. 10.5 kg
- **Timer:** 1-1900 s, HOLD Function (continuous run until stop)
- **possible Settings:**
  - 0.005 – 0.050 J/cm<sup>2</sup> in steps of 5 mJ/cm<sup>2</sup>
  - 0.050 – 0.150 J/cm<sup>2</sup> in steps of 10 mJ/cm<sup>2</sup>
  - 0.150 – 0.400 J/cm<sup>2</sup> in steps of 25 mJ/cm<sup>2</sup>
  - 0.400 – 8.500 J/cm<sup>2</sup> in steps of 100 mJ/cm<sup>2</sup>



## Spare Parts:

Cat. No.	Description
29 84 300	UV Tubes, 8 Watt, 254 nm
29 84 400	UV Tubes, 8 Watt, 312 (302) nm
29 84 500	UV Tubes, 8 Watt, 365 nm

All products built by Herolab carry the CE sign. Herolab has its own Quality Management System which is according to ISO 9001. Herolab reserves the right to change technical specifications and prices without prior notice.

