

INTENSE PULSED LIGHT SYSTEM XeMaticA-2L-RepRate-V2

automatic R&D system with two flash lamps

for evaluation tests in food, pharmaceutical, cosmetic, bio-medical, and tech. applications:



Highlights:

- . Pulse energies 200J, 350J, 500J.
- . Max spectral output - on request UVC to IR,
- . Repetition rates 1Hz, 2Hz and 3Hz.
- . Pulsing both lamps simultaneously.
- . Timed burst pulsing 1-60s + single pulsing.
- . 360° sample exposure.

PL chamber:

- 18 cm wide x 16 cm high x 18 cm deep,
- sample shelf is UVC transparent and located evenly between two lamps.
- distance between edges of lamp reflectors and the sample shelf can be from 2 to 8 cm.
- provides 360° sample exposure with ca. 15% uniformity due to 98% reflectors over lamps and on all sides around the sample shelf.

User friendly advantages:

- 1: Selecting any of 18 most common UV intensities to samples by varying 3 pulse energies, 3 pulse repetition rates and 2 lamp distances, tabulated in the manual;
- 2: Timer starts and stops pulsing from 1 sec (the single pulse at 1 Hz) to hours of pulsing;
- 3: Controlling UV intensities with two free positioned UVC sensors with outputs to a standard PC scope, included with the system.
- 4: Friendly controls with LED lighted rotary switchers;
- 5: based on pre-programmed chips to last for many years without software or hardware upgrades.

Safety features:

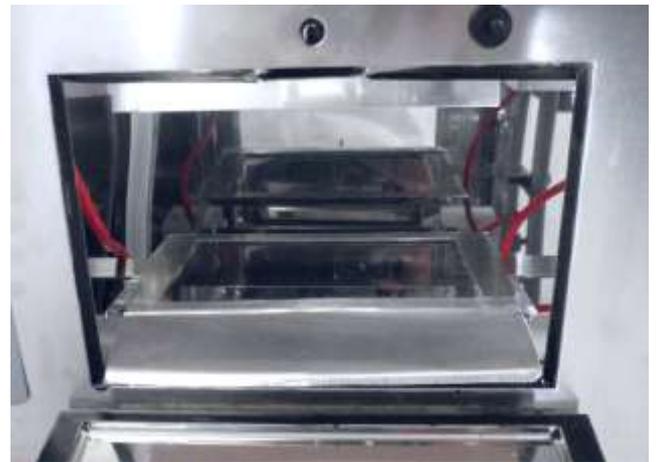
- 6: Flash lamps are filled with Xe-gas (no Mercury), water cooled, no ozone neither heat to samples.
- 7: The large red button is the emergency stop.
- 8: The chamber door is automatically locked and sealed during pulsing.
- 9: No EM waves or UV leaks outside during pulsing.

El connection:

208-240 VAC, 1-phase, 50-60 Hz, max 2kw.

Size, Weight, Enclosure Material:

60 cm wide x 40 cm high x 53 cm deep,
Polished stainless-steel, weight 42 kg.



Sterilization UV Efficiency:

For bacteria: up to 6 logs /pulse,
For common spores: up to 3 logs /pulse.
with UVC fluxes on a product up to 1 J/cm²/pulse

Options:

- 1: adjusting the lamp spectra to a desired maximum output in UV, visible and IR spectra.
- 2: customized chamber and lamp sizes;
3. Lamps independent pulsing: one or both.
4. Various cut-off and broad filters

*This is our novel Pulsed Light system,
other our PL R&D systems are in use in universities and production labs worldwide.*