INTENSE PULSED LIGHT SYSTEM XeMaticA-1L-RepRate-V2
automatic R&D system with one 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.
. Timed burst pulsing 1-60s + single pulsing.
. 180° sample exposure.
. option: one flash lamp above the quartz shelf and another under it, where lamps are pulsing one after another.

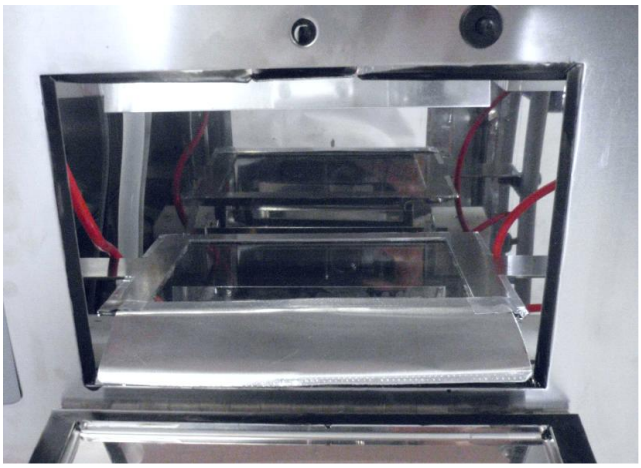
PL chamber:
-18 cm wide x 16 cm high x 18 cm deep,
- distance between edges of lamp reflectors and the sample shelf can be from 2 to 8 cm.
- provides 180° sample exposure with ca. 20% uniformity due to 98% reflectors over lamps and on all sides around the sample shelf.

User friendly advantages:
1: Selecting most common UV intensities to samples by varying 3 pulse energies, 3 pulse repetition rates and distance between a sample and the lamp, tabulated in the manual;
2: Timer starts and stops pulsing from 1 sec (the single pulse at 1 Hz) to 1 hour of pulsing;
3. Controlling UV intensities by a UVC sensor with outputs to a digital scope, included.
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.

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