



## wek-tec 1L-RepRate-V2 Intense Pulsed Light System User Manual

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**1L-RepRate-V2 Intense Pulsed Light System  
User Manual**



**INTENSE PULSED LIGHT SYSTEM XeMaticA-1L-RepRate-V2**  
**automatic R&D system with one water-cooled flash lamp**

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### **1L-RepRate-V2 Intense Pulsed Light System**

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

#### **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.

**Highlights:**

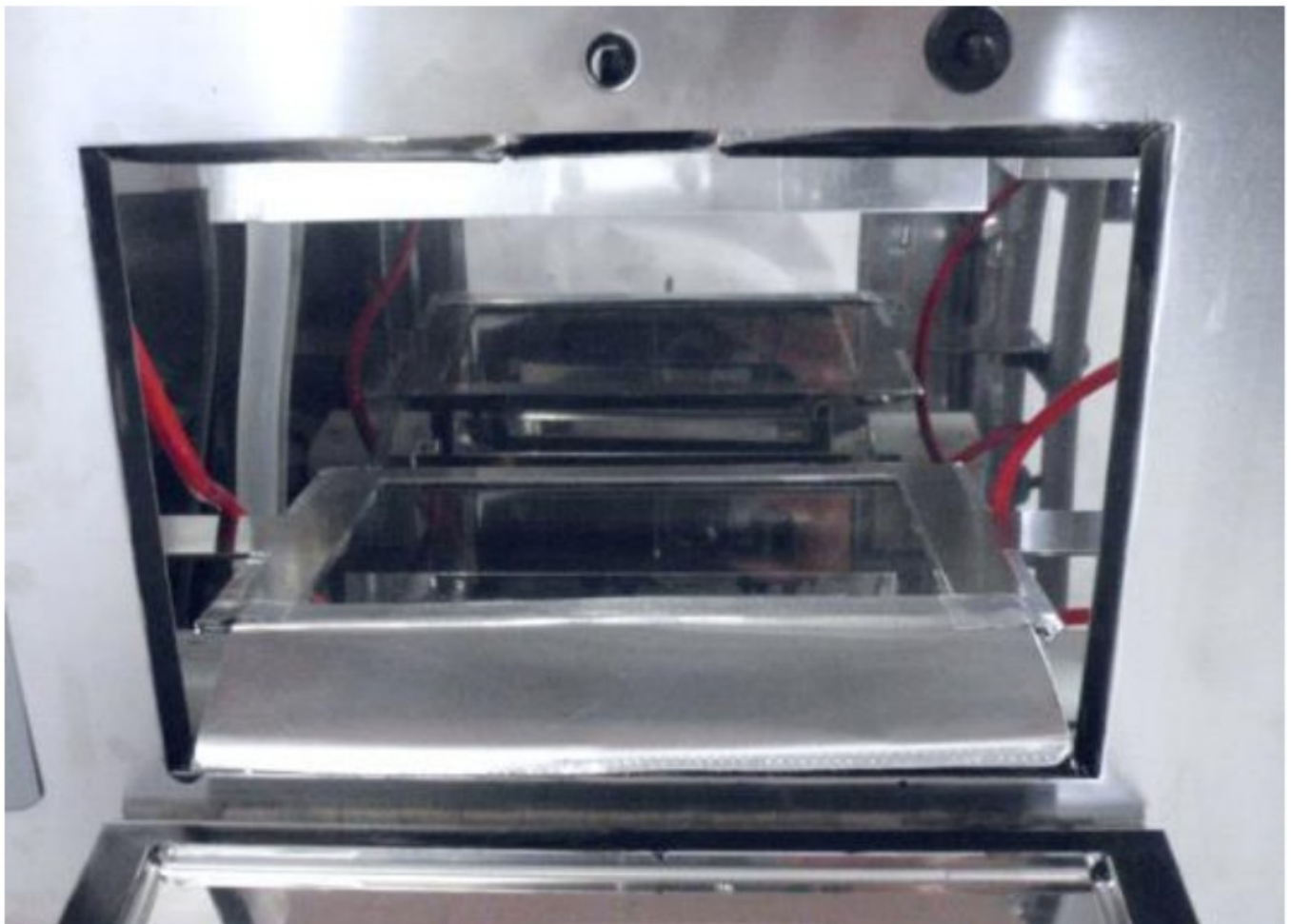
- Pulse energies 200J, 350J, 500J.
- Max spectral output – on request UVC to IR,
- Repetition rates 1Hz, 2Hz and 3Hz.
- Timed burst pulsing 1-60s + single pulsing.
- 180° sample exposure.
- water-cooled by an internal water system, which also takes most of IR out of the lamp spectra.

**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.



**Sterilization UV Efficiency:**

up to 6 logs /pulse for common bacteria,

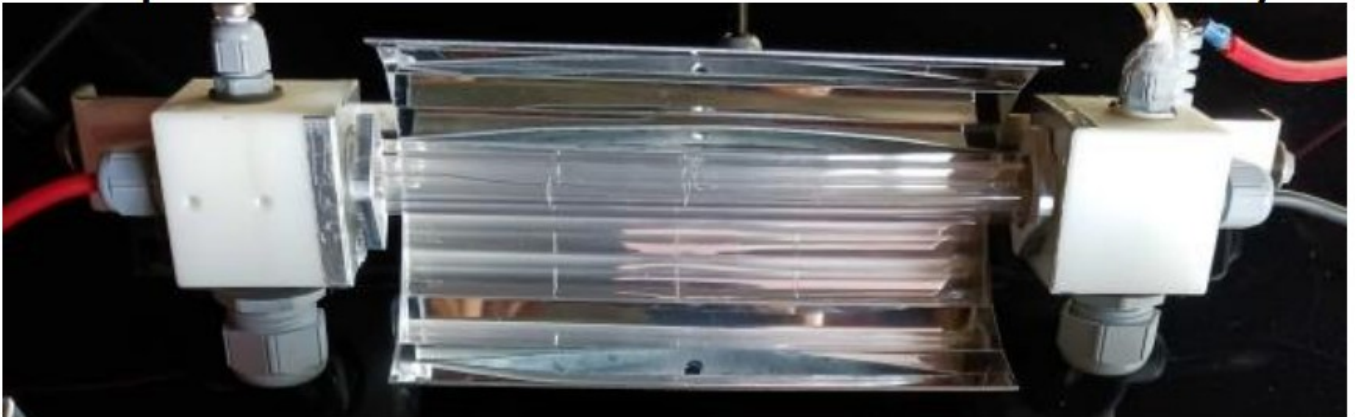
up to 3 logs /pulse for common spores.

**Option:**

adjusting the lamp spectra to a desired maximum output in UV, visible and IR spectra plus using respective filters.

**Industrial version:**

the lamp module is mounted over a conveyor



and connected by cables with the controller.

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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**Documents / Resources**

	<p><a href="#">wek-tec 1L-RepRate-V2 Intense Pulsed Light System</a> [pdf] User Manual 1L-RepRate-V2 Intense Pulsed Light System, 1L-RepRate-V2, Intense Pulsed Light System, Pulsed Light System, Light System</p>
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