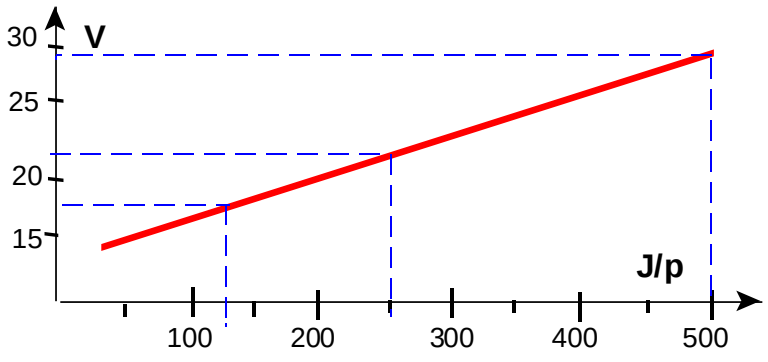
# INTENSE PULSED LIGHT SYSTEM XeMaticA-1L-Basic
## manually operated 1 lamp R&D system

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

**Flash lamp type and its efficiency:**

**.-** Xe gas (no Mercury!) air-cooled flash-lamp,
.- 15 or 19 cm active length,
.- up to **10-25 J/cm** pulse power load on flashlamp,
.- UVC, UVB and UVA outputs increase with increase of a pulse energy, from 12% to 35%,
**.- Max UVC flux** to a product: **0.5 J/cm²/pulse.**

**Pulse energy selection**
is by pressing green knob and controlling it by the kV-meter as per this chart:




**Features:**
*. pulse energies: 100J to 500J manually dialled from the front display,*
*. single pulsing by pressing the red button,*
*. max spectral output - on request UVC to IR,*
*.180° sample surfaces coverage.*

**PL chamber:**
20 cm wide x 14 cm high x 10 cm deep,
all lined with 98% reflectors,
+/-20% PL uniformity within PL chamber.

**Conveniences:**
.- inexpensive for any R&D lab,
.-delivers optimal UVC to IR doses per pulse,
.-referred in many publications on PL.

**El connection: #1: EU-standard:**
220-240 VAC, one phase, 50-60 Hz, 200w;
**#2:** for **USA:** 208 VAC, 1 phase, 50-60 Hz.

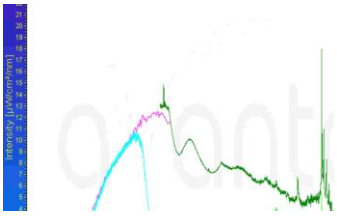
**Size, weight:**
36 cm wide x 34 cm high x 38 cm deep,
food-grade stainless-steel, weight ca. 9 kg.

***Sterilization UV efficiency:***
for bacteria: up to 6 logs /pulse,
for common spores: up to 4 logs /pulse.
with UVC fluxes on a product up to 0.5 J/cm²/pulse,

**Safety:**
A: fully interlocked, during operations the door of PL chamber is automatically locked,
B: has no UV light, EM field or Ozone leaks.

**Paid Options:**
**1: UV and current controls:** - free positioned UVC sensor with PC Scope with 2 BNC outputs. One for UV another is for pulsed current.
or 2 UV and to measure the UVC transparency of plastic foils.

**2: adjusting max output** to a required spectral position from UVC to IR



*This is our upgraded Pulsed Light one lamp R&D system,*
*our similar are working at many universities and production labs worldwide.*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