

KeyPro™ KP100

Product Specifications

KeyPro™ utilizes high-intensity ultraviolet light for rapid and reliable disinfection of laboratory equipment and surfaces. The KeyPro light engine is capable of disinfecting even highly-resistant microorganisms, such as *Clostridium difficile*. In third-party testing, Phoseon’s SLM technology was shown to be effective at inactivating *C. diff* spores by 5.79 log10 in seconds. KeyPro also controls the light intensity for each session so that, once you develop an experiment or treatment protocol, you always get the same amount of light from the instrument.



KeyPro Benefits

- Complete inactivation of microorganisms
- Stable, consistent scientific outcomes
- Speeds lab throughput
- Reduce lab consumables costs
- Simple touch-screen interface
- Seamless workflow integration

Rapid Inactivation of Microorganisms

Microorganism	Dose (mJ/cm ²)	Inactivation (log reduction)	Exposure Time
Influenza A	24	4.25	<5 sec
Clostridium difficile	1000	>5.79	30 sec
Aspergillus brasiliensis	36000	>4.95	180 sec
Staphylococcus aureus	52	5	<5 sec

Target Model Usage

KP100: Microplate decontamination for vaccine development labs that need to quickly and reliably inactivate viruses.

Operation

Phoseon's patented Semiconductor Light Matrix (SLM™) technology encapsulates LED arrays, optics, and thermal cooling technology to maximize disinfection and/or decontamination performance.



KeyPro Display

- Intuitive touch-screen with timer setting
- Programmable and provided standard recipe protocols
- Audible and visual completion notification
- Intensity Control: 0 to 100%, in 1% increments

KeyPro Chamber

- Compatible microplate shelf adjustable from 4 to 80mm, in 4mm increments
- Proprietary SLM™ scanning array
- Safety lock door system, also acts as emergency stop

Technical Specifications

KeyPro

Equipment Type	Laboratory Test, Measurement, and Control Equipment indoor use only
Wavelengths	Optimized combination of independently selectable UV-C (275nm) and UV-A (365nm)
Optional Items	Microplate Bead Dispenser, Microplate Stage, extended warranty
Temperature	15°C to 30°C
Humidity	up to 80% non-condensing for temperatures up to 30°C
Altitude	up to 3,000M (9,850 ft)
Sound Level	<= 60dBA
Surface temperature	<= 40°C
Startup-time	< 30 sec
Dimensions (LxWxH)	356x458x280mm; 14x18x11in
Chamber Dimensions (LxWxH)	160x132x90mm
Weight	< 15Kg; < 33 lb
Operating Power	100 to 140VAC; 50/60Hz input
Air Input / Exhaust	Allow minimum 50mm (2 in) clearance from back panel
Certifications	RoHS, REACH