

Finger Tip Pulse Oximeter UV-C Sterilizer

Virus Killer 254

Model:VK-254

99.9%
Virus
Inactivation

30s

Quick

UV
Block

Sterilization
for Inside cabinet



※The picture is image. It can not see UV light from out side.



1 PINCH

Set Pulse Oximeter
on the catcher



2 COVER

Put the cover
on the stand



3 PUSH

Push switch
sterilization start
/stop automatically



Theory 30sec 99.9% Virus Inactivation

Virus Killer 254 gives 254nm UV-C light which has influence to inactivate the virus strongly.

UV-C sterilizes 99.9% virus by induction of viral genome damage without apparent effects on viral morphology and proteins. Required UV-C dose to inactivate of virus depend on kind of virus.

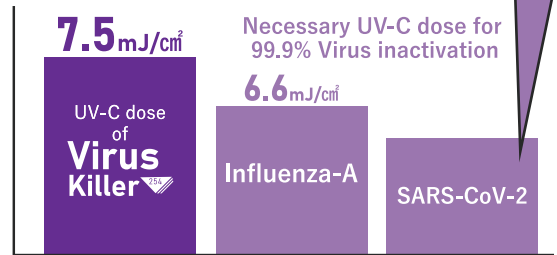
* According to some reports, required UV-C dose to 99.9% inactivate SARS- CoV-2 (3.7-5.3mJ/ cm²) is lower than Influenza-A(6.6mJ/ cm²). Our product VK-254 has 7.5mJ/ cm² of UV-C dose. It is enough ability to inactivate SARS-CoV-2.

$$\text{UV-C intensity} \quad \text{Time} \quad \text{UV-C dose}$$

$$250 \mu\text{W}/\text{cm}^2 \times 30 \text{sec} = 7.5 \text{mJ}/\text{cm}^2$$

Referenced: 1) UV-C irradiation is highly effective in inactivating and inhibiting SARS-CoV-2 replication, Mara Biasin et al., Scientific reports, 11 (2021) 6260_1-7. <https://doi.org/10.1038/s41598-021-85425-w>
 2) Rapid and complete inactivation of SARS-CoV-2 by ultraviolet-C irradiation, Nadia Storm et al., Science Report, 10 (2020) 22421. <https://www.nature.com/articles/s41598-020-79600-8>

▼Research of inactivation		
Institute	Milan univ	Boston univ
Lights	254nm lamp	
UV-C dose (mJ/ cm ²)	3.7	Wet : 5.3 Dry : 4.1



▲Required each UV-C dose for inactivation of virus

Safety design for eyes and skin from UV light

The machine is not active unless put the cover on the stand.

It stops to work when cover is opened.



LED illumination status indicator

LED illumination shows current status

On sterilization process

On the process the LED flashing

“UV-C device” remaining life

It shows remaining life cycle by flashing pattern

“UV-C device” trouble

The LED flashes with unique interval

Product name	: Virus Killer 254	Irradiation time	: 30sec/operation
Model	: VK-254	Accessories	: AC adaptor
Power	: AC100-240V	Operation temp	: 0~45°C
Rated power	: 1.5W (Active)	Size	: W70×D70×H115(mm)
	: 0.8W (Stand by)	Weight	: Approximately 250g
UV-C device	: LED		(without AC adaptor)
	Peak Wave length 254nm	Warranty	: 1year
	Life cycle 10,000 times		

※This product supports most of pinch type finger tip pulse oximeters. However it is not available for all oximeters.

※UV-C has feature to be rubbed to ABS materials. So it may damage the oximeter body color to yellow like a sunburn.

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