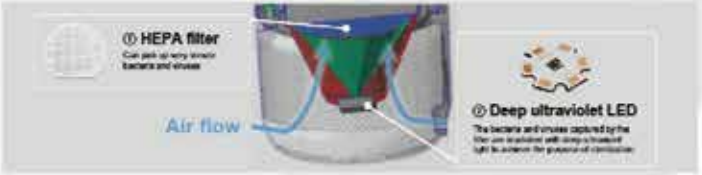
Sterilization Air Purifier

With deep LED UV light

kill 99.99% COVID-19 virus

Use HEPA filter + deep ultraviolet combination technology for sterilization



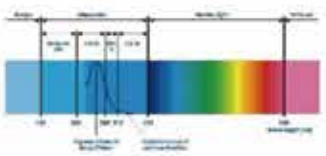
[Specification]

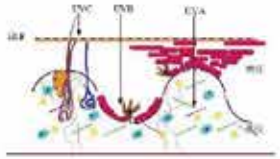
UV light	Sterilization wavelength	Output optical power	Human safety	Comment
DLP-650M38C6	265nm①	50mW	≤700mW/cm²②	0.3s for sterilization, maximum irradiation area up to 309.2m²

PS: ①The most efficient UV sterilization wavelength is 265nm
②The safety wave to human is ≤700000uW/cm²
③Kill 99.9% COVID virus

Specification

	Mode			
	LOW	MID	HIGH	SLEEP
Size	φ225*H310mm			
Rated voltage	AC100V			
Suitable area	32㎡			
Air flow	0.27m³/h	0.58m³/h	0.88m³/h	0.27m³/h
Noise	38dB(A)	52dB(A)	56dB(A)	38dB(A)
Cycle index	0.51 times/h	1.09 times/h	1.65 times/h	0.51 times/h
Time for sterilization	50-350s			





Ultraviolet sterilization is through ultraviolet radiation, destroy and change the DNA structure of microorganisms, so that bacteria immediately die or can not reproduce offspring, to achieve the purpose of sterilization. It is UVC ultraviolet that has bactericidal effect really, because DNA, RNA and nuclear protein in bacteria absorb the strongest peak of ultraviolet at 254～257nm. Bacteria absorb ultraviolet light, causing DNA chain breakage, resulting in nucleic acid and protein cross link rupture, killing nucleic acid biological activity, resulting in bacterial death. Ultraviolet sterilization lamp emits UVC short-wave ultraviolet, C-band ultraviolet is easy to be absorbed by the DNA of the organism, especially 265nm ultraviolet is the best.

According to the calculation method and requirements of the ultraviolet damage index suggested by the world health organization, the specific dose value of 265nm ultraviolet radiation is obtained:
Eλ -- Spectral $E_\lambda = \int E_\lambda \cdot S_{er}(\lambda) d\lambda$ ty, in units of per watt per square nanometer [W/(c㎡·nm)]
Ser (λ) -- According to the maximum normalized erythema effect spectrum, for ultraviolet light of 250nm≤λ≤280nm,Ser (λ)=1.0
λ -- Wavelength of radiation, in nanometers (nm)
700000uW/cm² below 265nm shortwave uv can only reach the outermost layer of the skin - cuticle, dermis and the following cells can not cause damage, so this product can effectively avoid uv damage to the human body.

UVC
Sterilization Air Purifier

AP-DESK

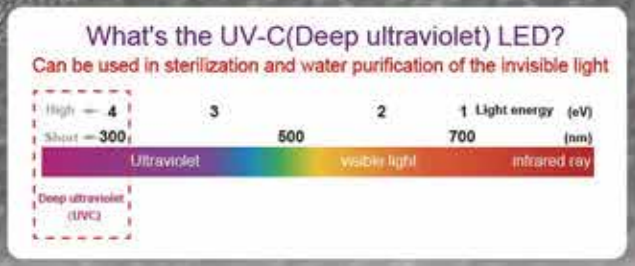
Remove bacteria and virus,
protect your life

Powerful in virus killing

ChinGaN™ LED sterilization technology pioneer

The high performance UV-LED light source module developed with the most advanced technology can maximize the effect of sterilization

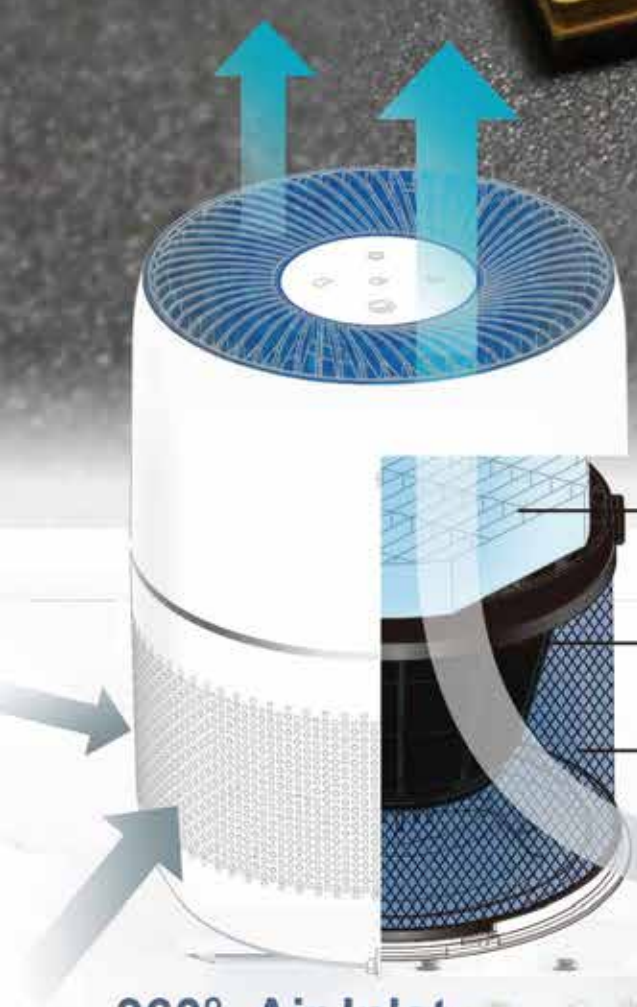
Experiments have been carried out in professional institutions to illuminate various bacterial viruses with deep ultraviolet light, which can prove its effectiveness



HEPA filter

Can ensure the capture of pollen, PM2.5 and other fine foreign matter

Capture bacteria and viruses



HEPA filter

It can capture and sterilize microscopic foreign matter such as pollen and PM2.5

UVC unit

Irradiate bacteria and viruses in the air with UV-C (deep ultraviolet light)

Pre-filter

Capture large particulate matter in the air

Suck polluted air from the air inlet

360° Air Inlet

Cover the area of 13㎡ with 1 unit

- Small size has big power
- Cover 13㎡ with 1 unit
- Fresh the air indoor in 1 hour
- ※ Under Mid mode

Touch control panel

Power

Fan speed

The fan speed changed as below:

Mid → High → Low ← Sleep

Timer button

The device can automatically stop running after the set time

1h → 2h → 4h → 8h → NO

Filter changing reminder-Light control

Reminder the time of filter replacement

Child lock button

Prevent children from accidentally touching