



## UVC Air sterilizer kit for home air conditioner

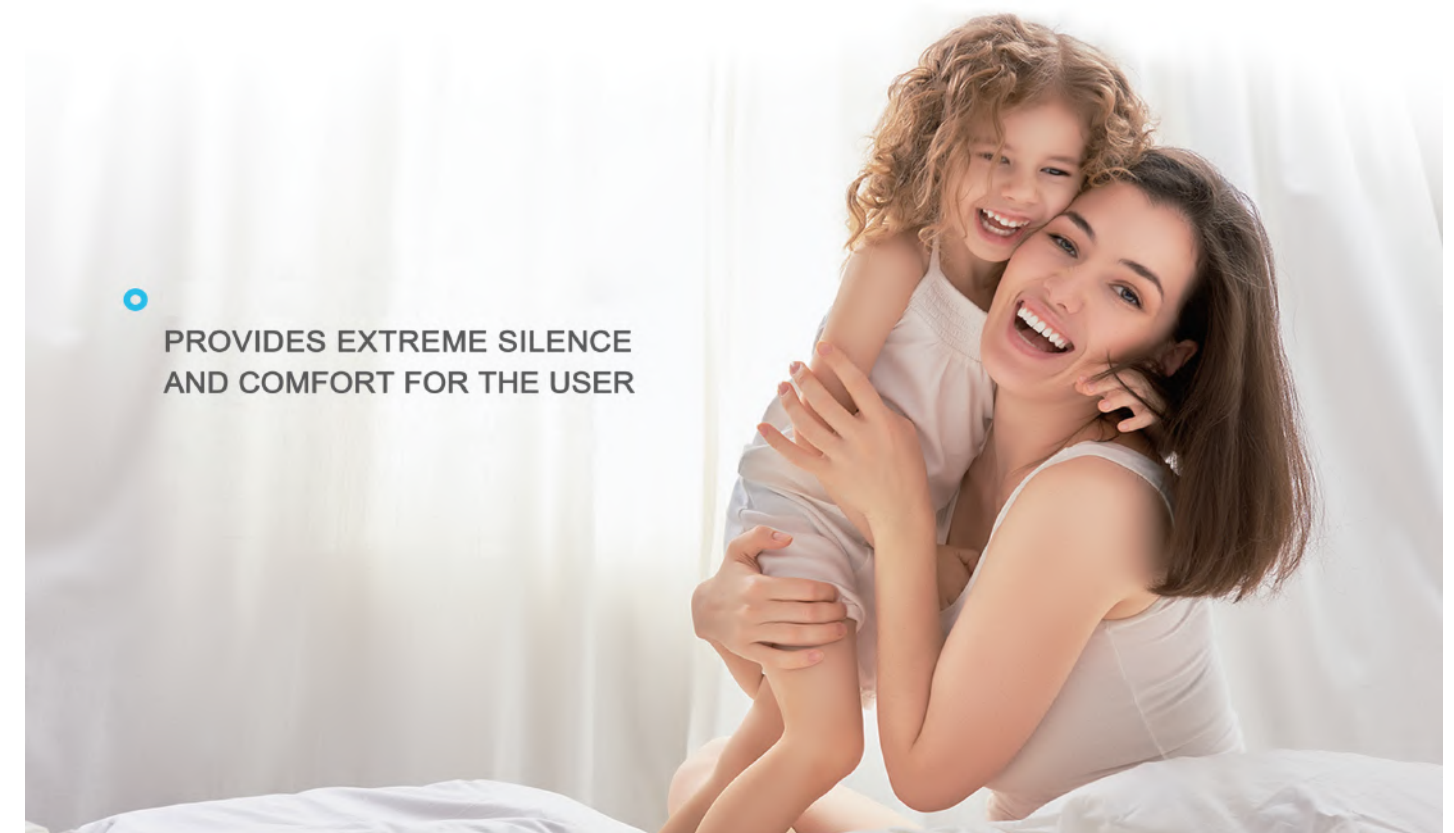
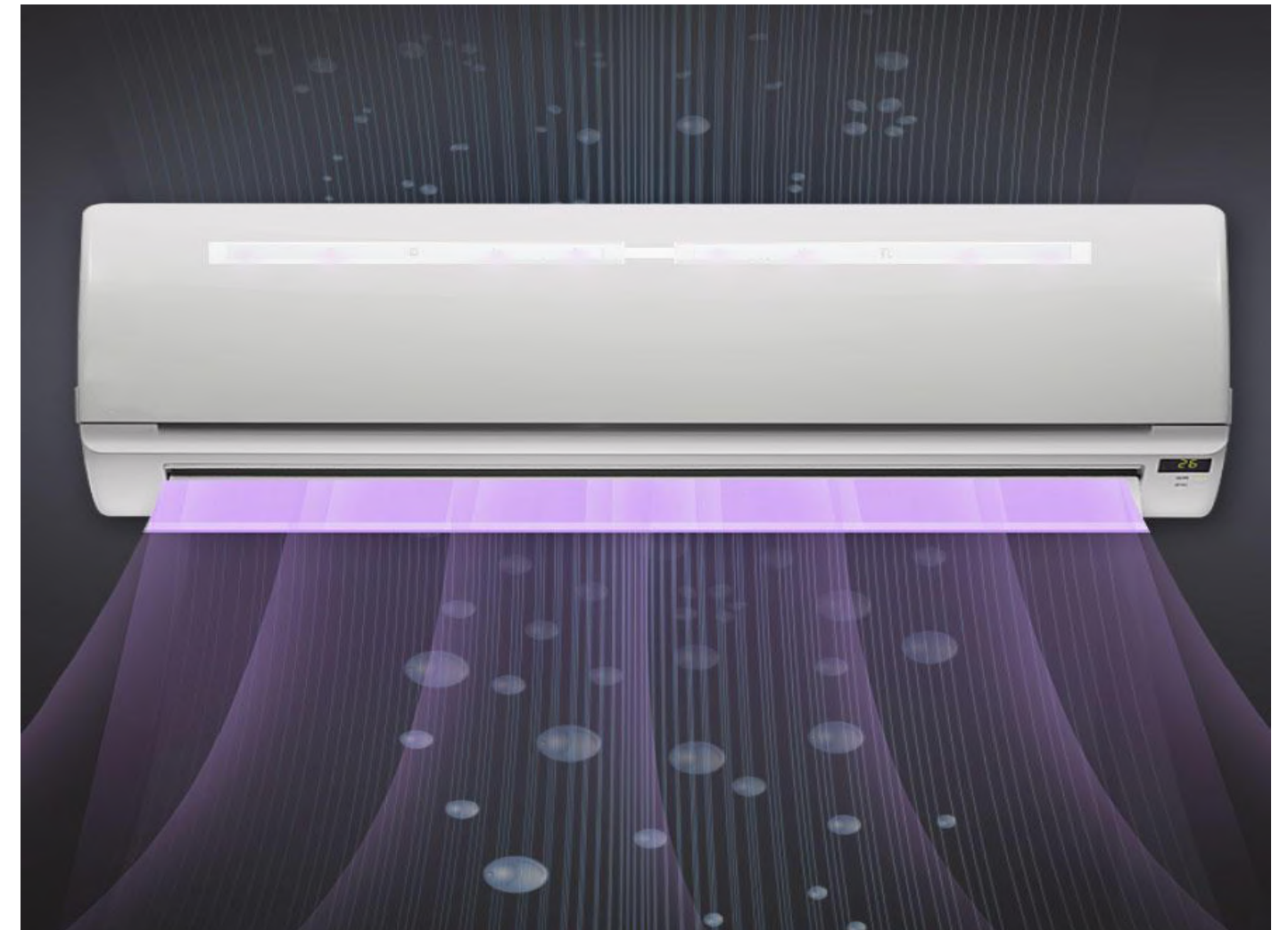




Ningbo Dekon Refrigeration Equipment Co., Ltd, a large-scale industry and trade integrated company , is one of the leading manufacture and supplier for air conditioner products and ventilation systems in China. Products focus on air cooled or water cooled chiller; air handling units; water fan coil units; VRF air conditioner; light commercial air conditioner and special function industrial air conditioner.

Designing and manufacturing a wide range of A/C and ventilation products, we can supply models for use in residential apartments, houses, commercial buildings, hotels, shopping malls and public venues. Marketing all series under our proprietary brand "DEKON" , we can also complete ODM and OEM orders as per customers' requirements.

DEKON strives for better air in your home, hotel, shopping Center and office buildings. And our aim is to supply our air conditioner product to each corner of the world !

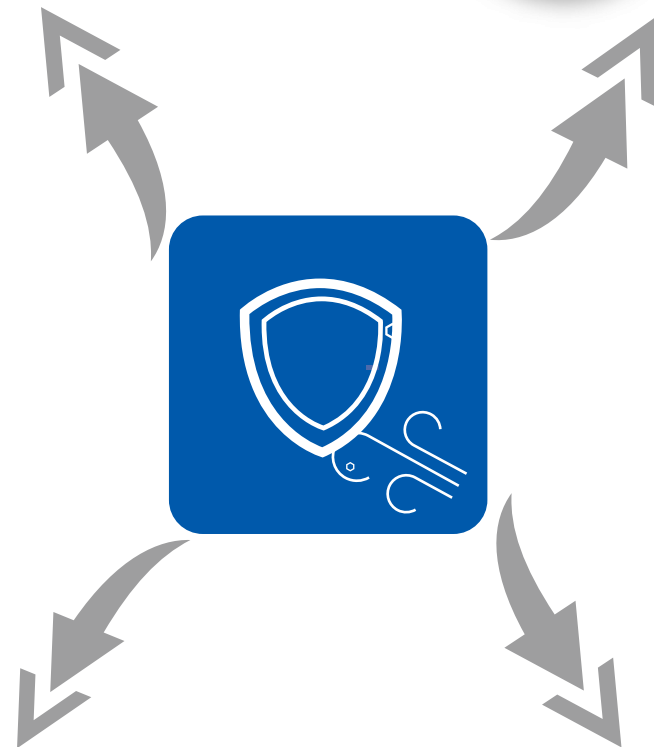
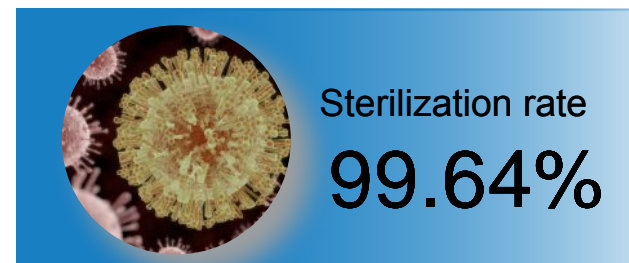




# BENEFITS OF UVC AIR STERLIZER

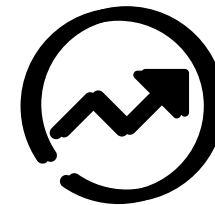
## · Bring Healthy Fresh Air

## · Key Technology



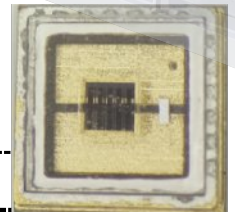
### Inorganic Package&Vacuuming Technology

**10,000** hours running when reach 50% original energy, which is **10 times** than normal organic package.



**Up to 10,000h  
lifespan**

**3.5mm**



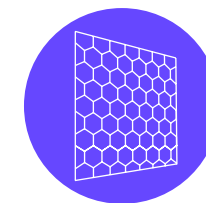
**3.5mm**

### Micro Size

Can stick to small area to have wide application of complete unit design

### Equal technology to Korea&Japan

From 200nm to 280nm  
From 2mW to 45mW



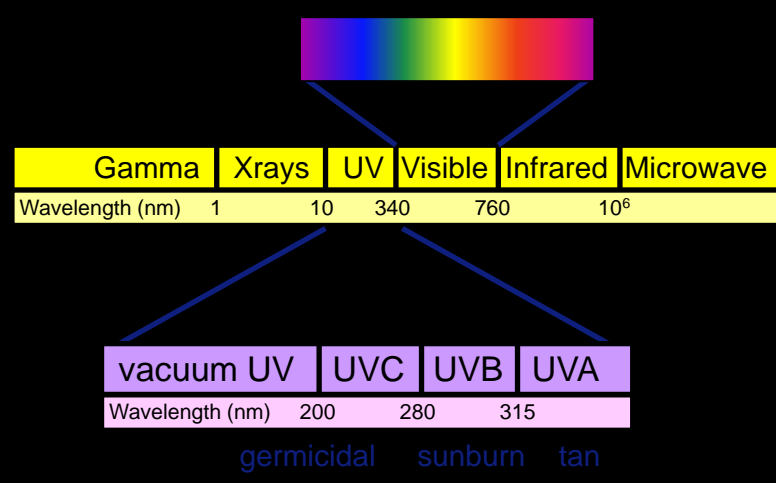
**Longterm TIO2 Filter**

Washable long-term Tio2 filter, ensures better air quality.

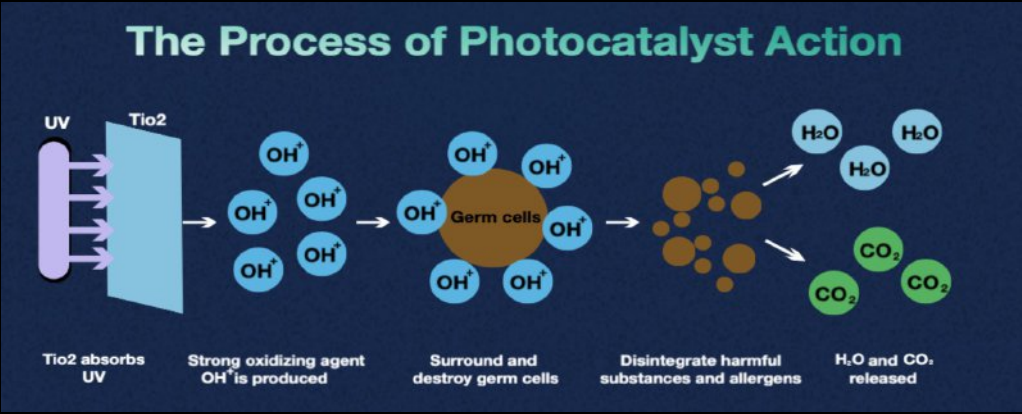
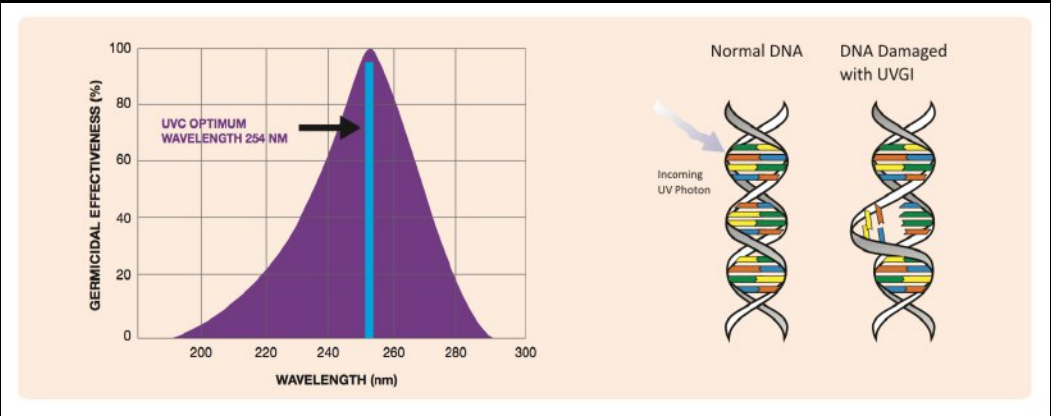
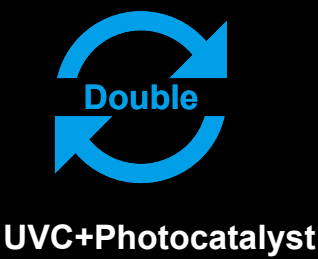
Reduce the maintainance times, reduce the cost.



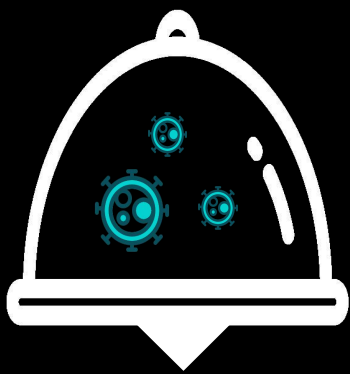
Technical Benefit



Specifications	Power Supply	LED STRIP (PCS)		Wavelength(nm)		Radiation Power	
	V/Hz	UVA	UVC	UVC	UVA	UVA	UVC
	AC100 to 240V/50 or 60Hz	8	2	270 to 280	405	3100mW	20mW

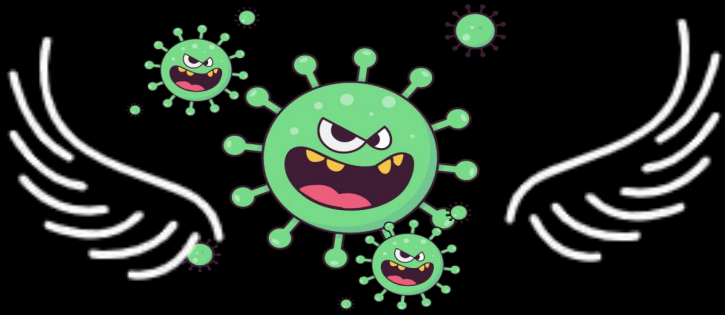


Without Photocatalyst, the needed time to kill bacterial & virus in flow air, is 26,160 times than in still air.



Still air

10.6s



Flow air

278604s

Comparison of UVC killing time

\*Assumption: the air conditioner is 12000btu and the room size is 40 cubic me

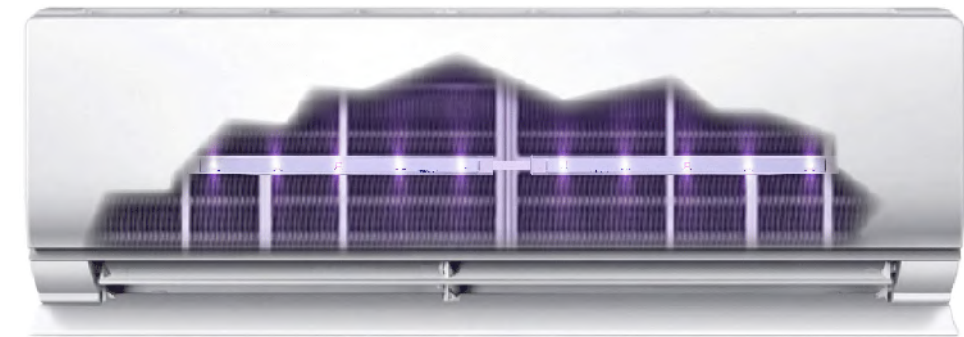
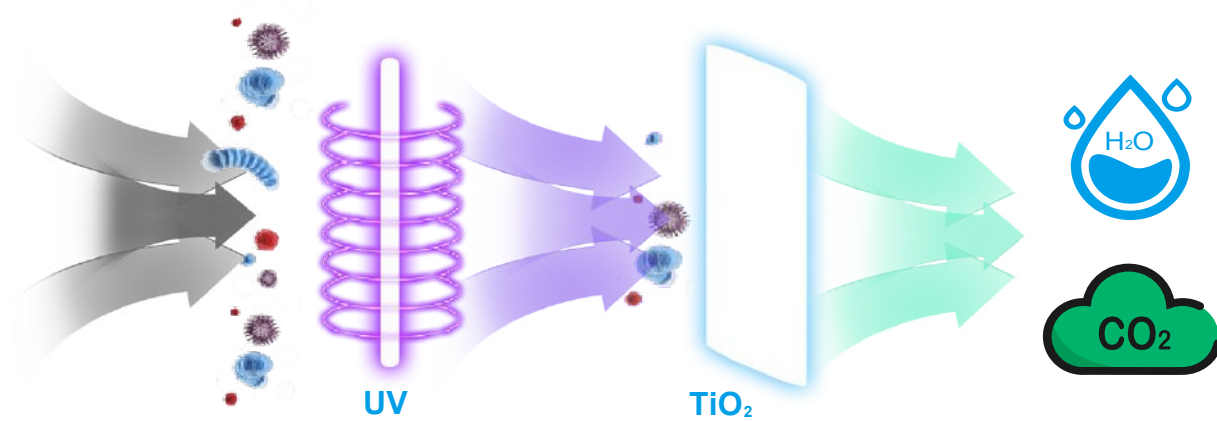


# OPERATING PRINCIPLE

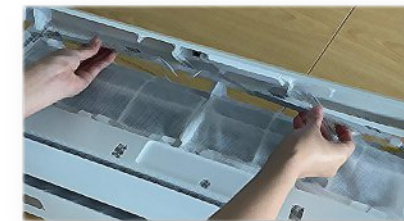
# EXPRESS SETUP



## · The process of photocatalyst reaction



1.Stick LED Strip



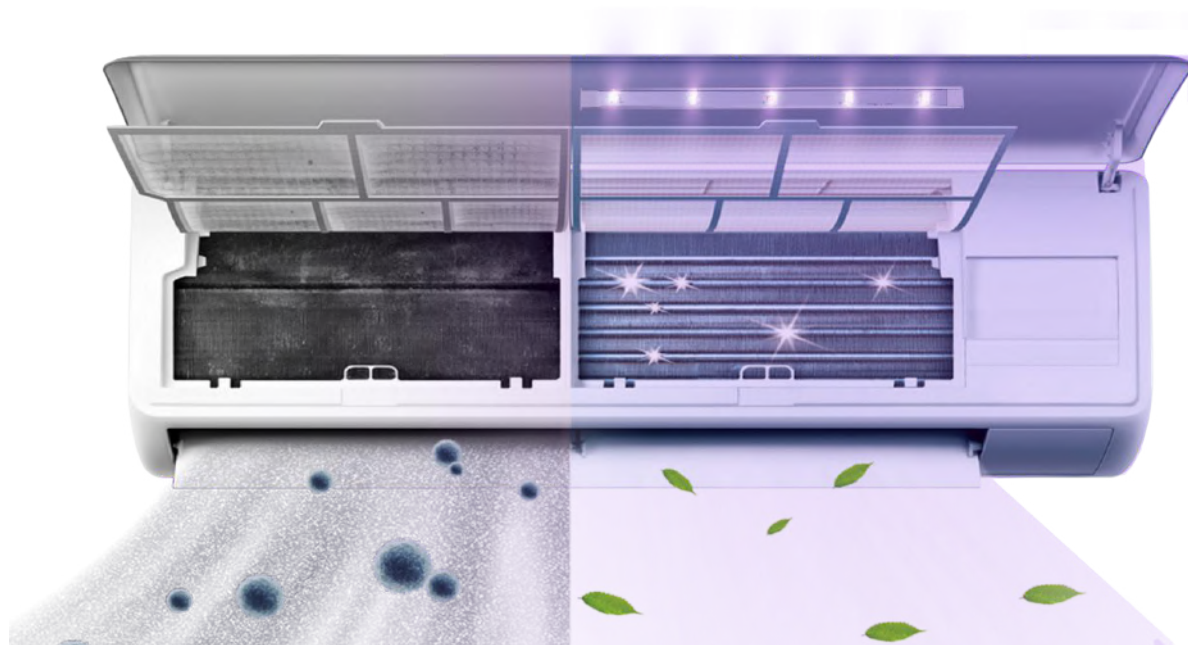
2.Place driver inside A/C power supply box



3.Stick Photocatalyst Film



**Fifteen minutes**





# V1.0:UV LED for Mini Split



UV Air Sterilizing LED for Mini Split



UV LED Strip



Photocatalyst Filter Film

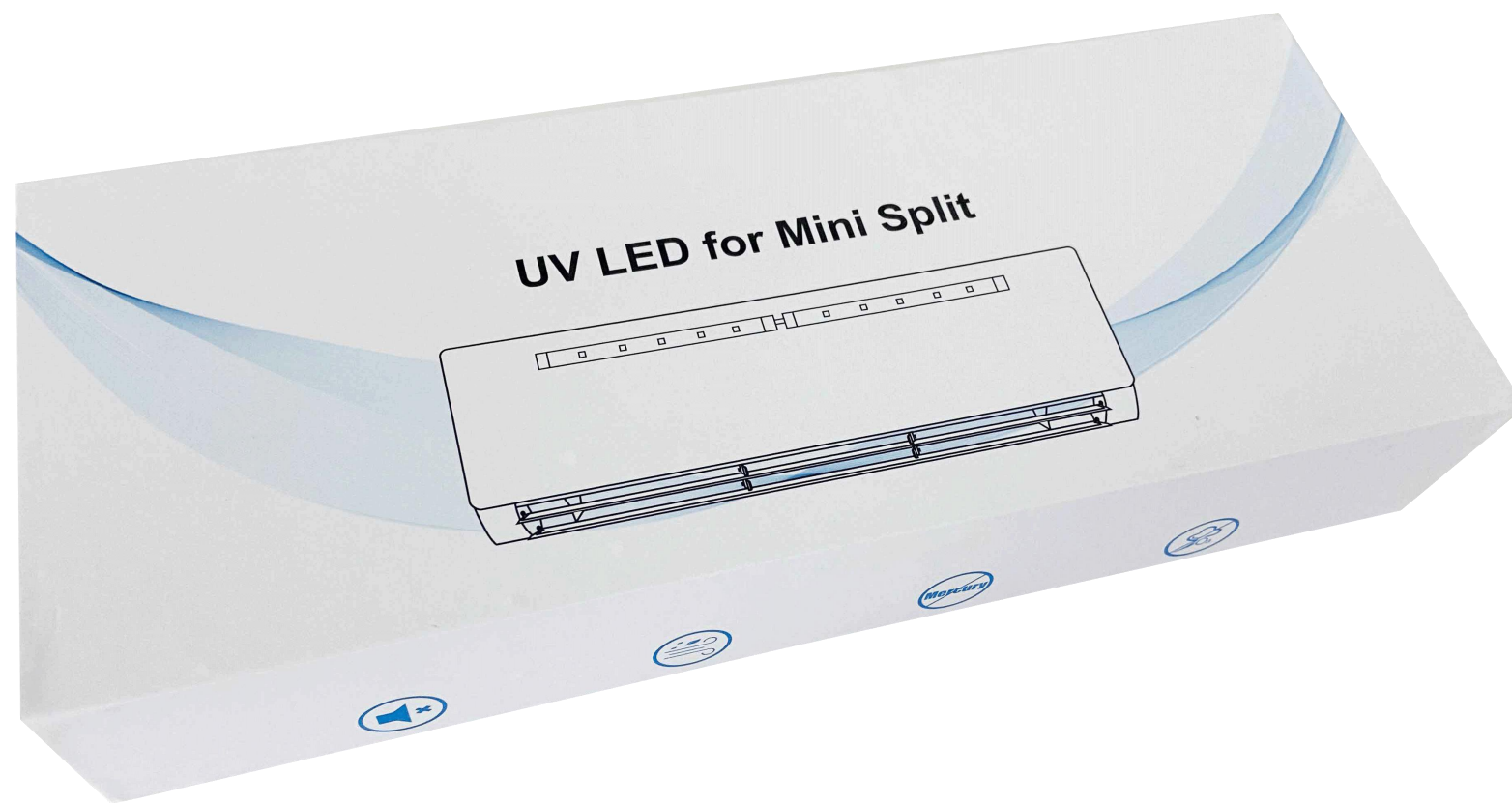


Meanwell Driver

150mm

250mm

# V1.1:UV Air Purifying LED



UV LED Strip



Photocatalyst Spray Bottle



Smart Socket



Remote Controller

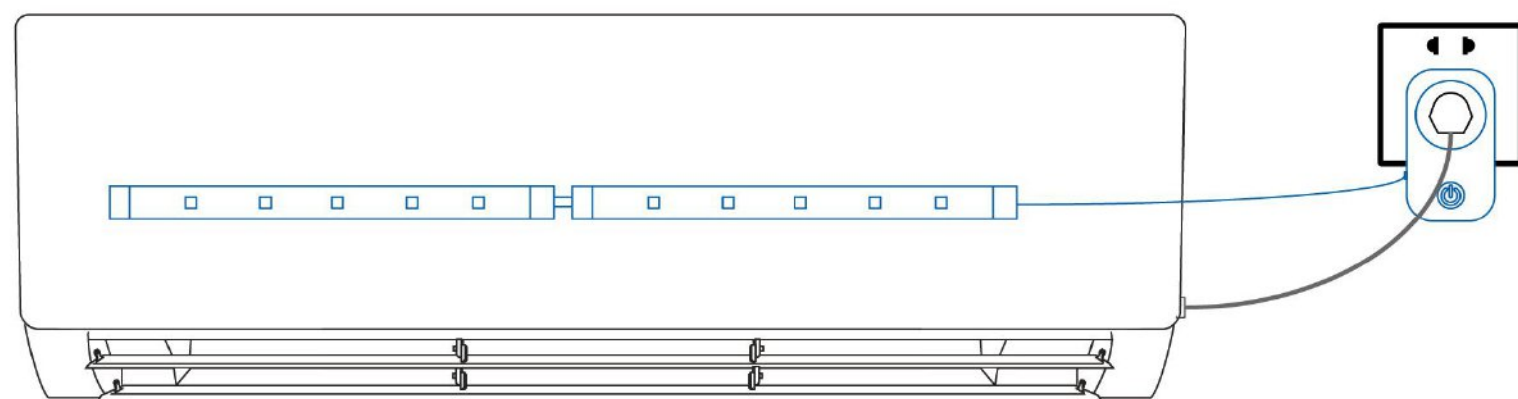


# Smart Socket



Save more than **60%** of  
Installation Time  
Working Perfectly with  
Air Conditioner

A/C on, LED automatically on  
A/C off, LED automatically off  
A/C on, LED could be off  
A/C off, LED could be on



wireless  
remote

Smart Socket

Remote  
Control





# Photocatalyst Spray Bottle



Save more than **10%** of  
Installation Time

Easily Spray on A/C filter,  
30ml for 2m<sup>2</sup>

Once Spray, long lasting effect

Filter Washable



Also offer Remote Control with L/N connection

Also offer  
Remote Control  
with L/N Connection



# More Models Available



## Ultra Air UV Air Purifying LED

Model	Features					
	Meanwell Driver	Mechanical Switch	Remote Control	Photocatalyst Film	Photocatalyst Spray Bottle	Smart Socket
ACLS50D	√	√		√		
ACLS50F	√	√			√	
ACLS50DR			√	√		
ACLS50FR			√		√	
ACLS50DR Plus			√	√		√
ACLS50FR Plus			√		√	√



Declaration of Conformity

The submitted sample of the following equipment has been tested for CE marking according to the following European Directive: the EMC Directive 2014/30/EU.

Applicant name & address : Ningbo Dekon Refrigeration Equipment Co., Ltd  
Yinzhou District, Ningbo,. P.R China

Manufacturer name & address : Ningbo Dekon Refrigeration Equipment Co., Ltd  
Yinzhou District, Ningbo,. P.R China

Product : UV Air Sterilizing LED

Model/Type reference : ACLS50D, ACLS50F, ACLS506C, ACLS25AC, ACLS50A, ACLS25AC, ACLS25C plus, ACLS50D1, ACLS50F1, ACLS506C1, ACLS25AC1, ACLS50A1, ACLS25AC1, ACLS25C plus1

Trade mark : Dekon

Ratings : AC 100-240V, 50/60Hz 10W

Order No. / Report No. : EED32M002160/EED32M002160

Test Standards	EN 55015:2013+A1:2015
	EN 61000-3-2:2014
	EN 61000-3-3:2013
	EN 61547:2009

This Declaration is for the exclusive use of CTI's Client and is provided pursuant to the agreement between CTI and its Client. The observations and test results referenced from this Declaration are relevant only to the sample tested. This Declaration by itself does not imply that the material, product, or service is or has ever been under a CTI certification program.

Note : This Declaration is part of the full test report(s) and should be read in conjunction with it.



David Wang  
Date of Issue:Aug. 05, 2020

Check No.: 2447603961



中国认可  
国际互认  
检测  
TESTING  
CNAS L1747

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

ANALYSIS AND TEST RESULT

(Report No.): 2020FM22484R01D

Action time	The test microorganism	Serial Number	The number of Bacteria in the air (cfu/m <sup>3</sup> )	Killing rate (%)
0 (CK)	(Staphylococcus albus) 8032	1	3.8×10 <sup>6</sup>	/
		2	3.8×10 <sup>6</sup>	/
		3	3.9×10 <sup>6</sup>	/
30min	(Staphylococcus albus) 8032	1	5.4×10 <sup>5</sup>	81.05
		2	4.6×10 <sup>5</sup>	84.67
		3	5.5×10 <sup>5</sup>	81.80
2h	(Staphylococcus albus) 8032	1	7.3×10 <sup>3</sup>	99.55
		2	5.5×10 <sup>3</sup>	99.64
		3	8.2×10 <sup>3</sup>	99.53

(Blank Below)

Remarks	1. Method description: Put the test sample in a 1m <sup>3</sup> test cabin,and then carried out the following steps under laboratory conditions: Turned the test sample on fan mode and adjusted the air volume to the minimum effect for 30min and 2h, respectively,then collected the air at a flow of 11L/min by a pump liquidaerosol sampler to test the content of airbacteria.The volume of sampling solution was 20mL,the sampling time was 2min both in control group and test group.  2. The result of killing rate has eliminated the natural decay of microorganisms in the air.
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