

► Company Profile

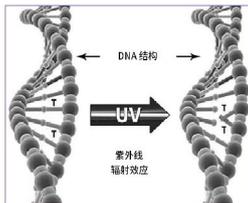
Shanxi Advanced Ultraviolet Optoelectronics Co.,Ltd was founded in April 2018 with a registered capital of 413 million RMB, It is located in Zhangze new industrial park, Changzhi high tech Zone, Shanxi Province, adjacent to Wangcun airport, G55 high speed and Taijiao high speed railway. Based on the top team led by Li Jinmin, who is the winner of the First Class Reward of National Science and Technology Progress Award and Heliang Heli Fund Technology Innovation Award, It has been recognized as the center of 3rd Generation Semiconductor Ultraviolet Photoelec nterprise.

Our company was officially put into operation in May 2019, realizing the technology industrialization of UV LED chip and the localization of core devices. It has become a ecological chain enterprise integrating core equipment, materials, chip manufacturing, packaging and application, We can provide a full range of high-quality UVA UVB and UVC LED chips, UV LED lamps, PCBA module and module integration solutions. Therefore, The product application scenarios can cover public health and safety fields such as "epidemic prevention equipment, medical disinfection and drinking water disinfection".



► Principle of sterilization

Deep ultraviolet LED can emit ultraviolet light in the UVC band (wavelength 265-285nm) with high photon energy, which can destroy the DNA or RNA molecular structure in bacteria and viruses, leading to cell death and regenerative cell death, thereby clearing bacteria and viruses.



Innovate UV. Benefiting Human Health

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新一代半导体紫外光源产品与应用解决方案供应商
Supplier of new generation semiconductor ultraviolet
light source products and application solutions





▼ UVC LED

UVC LED products have the characteristics of strong light power, high sterilization efficiency (>99.9%), long service life (up to 10000 hours), and green environmental protection. They are widely used in medical, home and other fields, providing efficient and safe disinfection and sterilization solutions.

PA-C2DHD
UVC 0.5W



Two color flat light beads: UVA/blue light

Parameter	Unit	minimum	Maximum
Wavelength	nm	265 --	280
Radiated power	mW	12 --	30
Half wave width	nm	9 --	11
Voltage	V	5.0 --	6.5
Reverse current(VR=-5V)	μA	0 --	1
Lighting Angle	deg.	120 --	129

PA-C2DHB
UVC 0.5W



Monochromatic spherical lamp beads

Parameter	Unit	minimum	Maximum
Wavelength	nm	265 --	280
Radiated power	mW	12 --	30
Half wave width	nm	9 --	11
Voltage	V	5.0 --	6.5
Reverse current(VR=-5V)	μA	0 --	1
Lighting Angle	deg.	45 --	65

PH-C5DHD
UVC 4W



Monochrome flat light beads

Parameter	Unit	minimum	Maximum
Wavelength	nm	270 --	280
Radiated power	mW	100 --	160
Half wave width	nm	9 --	12
Voltage	V	10 --	13
Lighting Angle	deg.	120 --	130

PM-C7CHD
UVC 60W



COB integrated packaging light board

Parameter	Unit	minimum	Maximum
Wavelength	nm	270 --	280
Radiated power	W	1.0 --	2.0
Half wave width	nm	9 --	11
Voltage	V	54 --	60

▼ Module series

Zhongke Lu'an has a wide variety of module products and the ability to customize according to user needs. With years of experience in water treatment, it has successfully provided customized solutions for international enterprises such as Haier, demonstrating its strength as a leading enterprise in the field of ultraviolet LED.

ZK-LDS01



Flowing water sterilizer

Parameter	Typical value	Unit
Voltage	DC24V	V
Input power	7-12	W
Interface size	Φ9.5	mm
Radiation power	>180	mW
Under pressure	2.0MPa@15min	/
Sterilizing rate	≥99.99%@2-8L/min	/

ZK-LDS07-1L



Flowing water sterilizer

Parameter	Typical value	Unit
Voltage	DC12V / DC24V	V
Current	200mA@12V/110mA@24V	mA
Input power	2.6	W
Interface size	Φ6.4	mm
Radiation power	70-80	mW
Sterilizing rate	≥99.99%@1L/min	/

ZK-LDS12-3L



Flowing water sterilizer

Parameter	Typical value	Unit
Voltage	DC24V	V
Current	200	mA
Input power	4.8	W
Radiation power	140-160	mW
Interface size	Φ8	mm
Sterilizing rate	≥99.99%@3L/min	/

ZK-LDS18-1T

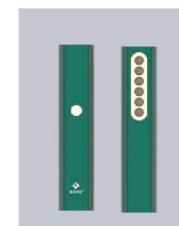


High Power Ultraviolet Sterilizer

Parameter	Typical value	Unit
Voltage	220	V
Power	150	W
Radiation power	20	W
Interface size	DN40	mm
Under pressure	Φ8	/
Sterilizing rate	≥99.99%@1T/H	/

▼ Application products

Zhongke Lu'an has a rich product line, including elevator button sterilizer, wall mounted sterilizer, express parcel sterilizer, air sterilizer, etc., which can meet the disinfection and sterilization needs in different scenarios.



Deep ultraviolet handheld sterilizer

Parameter	Typical value	Unit
Voltage	DC5	V
Battery capacity	500	mAh
Working hours	1.2	H
Radiation power	6*5	mW
Size	120*26*14	mm



Desktop water purifier

Parameter	Typical value	Unit
Voltage	220	V
Power	2200	W
Discharge	20	L/H
Under pressure	0.1~0.4	Mpa
Product size	330*170*440	mm



ZK-PET01

High power ultraviolet LED sterilization lamp

Parameter	Typical value	Unit
Voltage	AC220	V
Current	8	A
Power	1920	W
Radiation power	160*216	mW
Size	330*100*40	mm
Scene	Food processing and water treatment industries	/



ZK-T5G5-A1

T5 sterilization lamp tube

Parameter	Typical value	Unit
Voltage	DC12V	V
Power	4	W
Size	Φ15*149	mm
Radiation power	60-100	mW
Housing material	Aviation aluminum+quartz glass lampshade	/
Line composition	UVC LED: 2-series 8-parallel	/