



Chip/Module Series Manual

High-power Sterilizing Chip/Module Series
Detector and Module Series

DYNGA Semiconductor



DYNGA Semiconductor

Jiaxing DYNGA Semiconductor

Create the future with ingenuity



Company Profile

Jiaxing DYNGA Semiconductor Co., Ltd., headquartered in Jiaxing City, Zhejiang Province, China, is a new high-tech enterprise specializing in third-generation semiconductor epitaxial wafer preparation, chip design and related application product development. Our products are mainly made of third-generation semiconductor materials, including GaN UV photoelectric semiconductor chips (DUV LED chips), DUV detectors, gallium nitride power chips and related application products. We supply the above high-tech products to domestic and international markets.

As a young semiconductor enterprise, owing to China's vigorous implementation of the innovation-driven development and autonomous control strategies, under the premise of breaking through the existing technological blockade, we keep up with the pace of international semiconductor industry development, deepen product development and innovation, insist on the autonomy of homemade chips, and strive to be the most professional gallium nitride chip supplier in China.



Headquarters of Jiaxing DYNGA Semiconductor Co., Ltd.



Qualification Certificates

Trademark Registration Certificates/Patent Certificates/Certificate Authentication/Authoritative Test Reports



Type 40/11 trademark registration certificate



Patent certificates



Authoritative authentication: CE\TUV\ROSH



Microbiological test report:
Sterilization rate - 99.99%



Human coronavirus test
report: Sterilization rate -
99.9%



Biosafety: Man-machine
symbiosis compliance
report



Waste gas disposal test report: Several hazardous
waste gases such as dioxins have been removed



Product Catalogue

UV-LED

| | |
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| UVB | 3 |
| UVC | |
| 265nm (WHO standard) | 5 |
| 254nm (Chinese national standard) | 7 |

MODULE

Water sterilization

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Principle of UV sterilization

UV sterilization is, through UV irradiation, to destroy and change the DNA (deoxyribonucleic acid) structure of microorganisms, so that bacteria die immediately or are unable to reproduce, thus to achieve the purpose of sterilization.

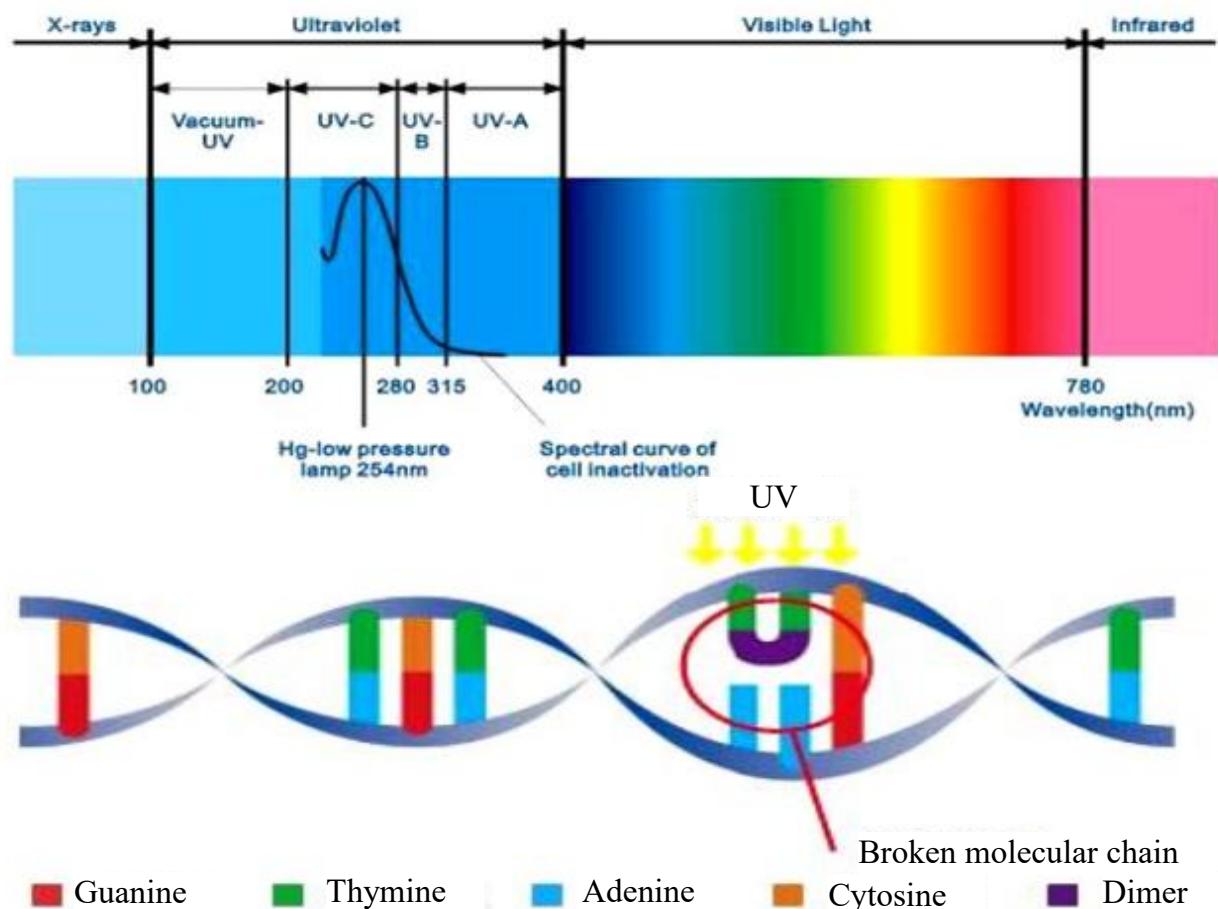
What's really germicidal is UVC, because the main peak of UV absorption by deoxyribonucleic acid (DNA), ribonucleic acid (RNA) and nucleoprotein in bacteria is 265nm.

The UV absorption by bacteria causes the DNA chain to break, so that the crosslinking between nucleic acid and protein is broken and further the bioactivity of nucleic acid is killed, thus resulting in the death of bacteria.

Taking the opportunity of the COVID-19 epidemic, China has newly issued *Hygienic Requirements for UV Sterilizer* (GB28235-2020), which specifically clarifies and standardizes UVC sterilization.

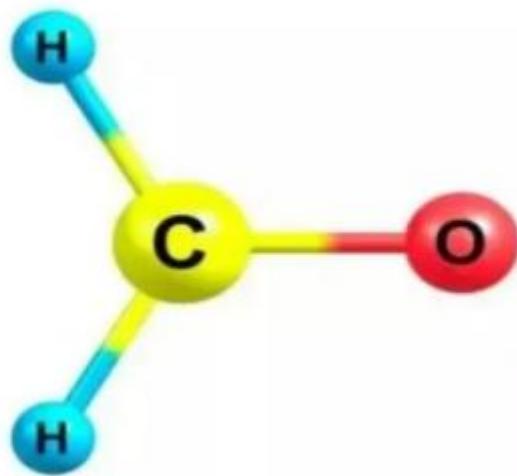
UVC is easily absorbed by the DNA of organisms, especially UV around 265nm. UV sterilization is widely used in hospitals, schools, nurseries, cinemas, buses, offices, families, and so on, being able to purify air, eliminate musty smell and produce a certain amount of negative oxygen ions,

so that the air in the rooms sterilized by UV is very fresh. UV sterilization of public places can prevent some germs from spreading through the air or by the surface of any objects.



Principle of formaldehyde degradation and odor removal by UVC

Formaldehyde, also known as aldehyde formica, is an organic compound. Its chemical formula is HCHO or CH₂O. Skin exposure to formaldehyde can cause allergic dermatitis, stains, cutaneous necrosis and other lesions. Oral ingestion of 10~20mL formaldehyde solution can cause human death.

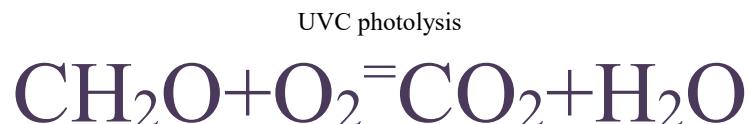


The formaldehyde molecule C-H bond energy is 368.4(±)0.67kJ/mol

According to the photon-related Planck equation E=HV,

265nm UVC, with a single photon energy of 504.03kJ/mol, much higher than the formaldehyde molecule bond energy,

can break the formaldehyde molecule C-H bond in an instant, then combine with oxygen, and finally produce carbon dioxide and water:



UV-LED

UVB



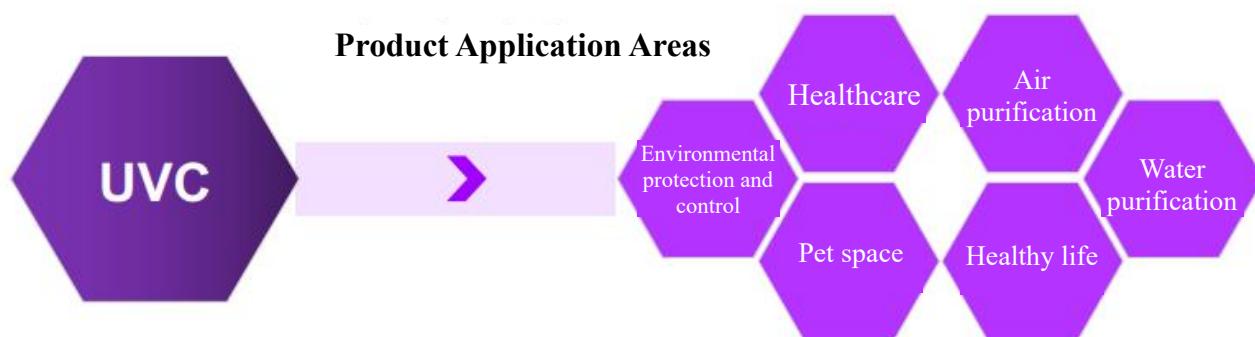
| Product features | <ul style="list-style-type: none"> ◆ Chip with radiant flux (output) of 50mW ◆ Peak wavelength: 308-312nm ◆ Used in medical treatment, dermatitis treatment, skin phototherapy, and other areas |
|------------------|--|
|------------------|--|

| Name | | UVB series chip | | | | | | | | | |
|---------------------------------------|------------------------------|-----------------|------------|------------|------------|-------------|--|--|--|--|--|
| Model | DLP(COBCu)-045M45M312 | | | | | | | | | | |
| Parameters | | | | | | | | | | | |
| Parameter | Symbol | If | Min | Typ | Max | Unit | | | | | |
| Peak wavelength | λ_p | 350mA | 310 | 312 | 320 | nm | | | | | |
| Radiant flux (output) | Φ_e | 350mA | 40 | 50.0 | 50 | mW | | | | | |
| Forward voltage (input) | V_f | 350mA | 5.2 | 5.5 | 7.0 | V | | | | | |
| Full width at half maximum | $\Delta\lambda$ | 350mA | 10.0 | | | nm | | | | | |
| Viewing angle | $2\theta_{1/2}$ | 350mA | 125 | | | ° | | | | | |
| Thermal resistance (test temperature) | $R_{\theta J-s}$ | 350mA | 21.0 | | | °C | | | | | |

| Name | | UVB series chip | | | | | | | | | |
|---------------------------------------|------------------------------|-----------------|------------|------------|------------|-------------|--|--|--|--|--|
| Model | DLP(COBCu)-047M45M308 | | | | | | | | | | |
| Parameters | | | | | | | | | | | |
| Parameter | Symbol | If | Min | Typ | Max | Unit | | | | | |
| Peak wavelength | λ_p | 350mA | 300 | 308 | 310 | nm | | | | | |
| Radiant flux (output) | Φ_e | 350mA | 30 | 50.0 | 50 | mW | | | | | |
| Forward voltage (input) | V_f | 350mA | 5.2 | 5.5 | 7.0 | V | | | | | |
| Full width at half maximum | $\Delta\lambda$ | 350mA | 10.0 | | | nm | | | | | |
| Viewing angle | $2\theta_{1/2}$ | 350mA | 125 | | | ° | | | | | |
| Thermal resistance (test temperature) | $R_{\theta J-s}$ | 350mA | 21.0 | | | °C | | | | | |

UV-LED

UVC New Applications for Sterilization, Purification and Health



Product Application Scenarios

Home living spaces, cars, hospitals, schools, supermarkets, logistics spaces, warehousing spaces, ships, factories, construction sites, stations, airports, public living spaces, etc.



Portable sterilizing equipment



Desktop air purifying equipment



Sterilizing modules for kitchen/home appliance



Odor removing equipment for car/home appliance/pet/storage space



Sterilizing equipment for warehousing/logistics space



Sterilizing equipment for public space



Sterilizing equipment for hospital/factory



Clear/running water sterilizing equipment



Hazardous waste substance degradation equipment for environmental protection

UV-LED

UVC (WHO standard: 265nm)

Product features



| Product features | <ul style="list-style-type: none"> ◆ Chip with radiant flux (output) of 50mW ◆ Peak wavelength 265nm, optimum for sterilization ◆ 35C6 packaged chip carried on high thermal conductivity alumina substrate, better heat dissipation |
|------------------|---|
|------------------|---|

| Name | DUV sterilizing chip 265 | | | | | |
|---------------------------------------|--------------------------|-------|------|------|-----|------|
| Model | DLP(SMD)-050M35C6 | | | | | |
| Parameters | | | | | | |
| Parameter | Symbol | If | Min | Typ | Max | Unit |
| Peak wavelength | λ_p | 350mA | 260 | 265 | 270 | nm |
| Radiant flux (output) | Φ_e | 350mA | - | 50.0 | - | mW |
| Forward voltage (input) | V_f | 350mA | 5.2 | 5.5 | 7.0 | V |
| Full width at half maximum | $\Delta\lambda$ | 350mA | 10.0 | | | nm |
| Viewing angle | $2\theta_{1/2}$ | 350mA | 125 | | | ° |
| Thermal resistance (test temperature) | $R\theta_{J-s}$ | 350mA | 21.0 | | | °C |



| Product features | <ul style="list-style-type: none"> ◆ New III-generation packaging technology, radiant flux (output) 263mW ◆ Chip carried on copper substrate, better heat dissipation, ◆ Shorter sterilization time, enhanced sterilization effect |
|------------------|---|
|------------------|---|

| Name | DUV sterilizing chip 265 | | | | | |
|---------------------------------------|----------------------------|-------|------|-------|-----|------|
| Model | DLP(COBCu)-263M35C6 | | | | | |
| Parameters | | | | | | |
| Parameter | Symbol | If | Min | Typ | Max | Unit |
| Peak wavelength | λ_p | 700mA | 260 | 265 | 270 | nm |
| Radiant flux (output) | Φ_e | 700mA | - | 263.0 | - | mW |
| Forward voltage (input) | V_f | 700mA | 5.2 | 5.5 | 7.0 | V |
| Full width at half maximum | $\Delta\lambda$ | 700mA | 10.0 | | | nm |
| Viewing angle | $2\theta_{1/2}$ | 700mA | 125 | | | ° |
| Thermal resistance (test temperature) | $R\theta_{J-s}$ | 700mA | 21.0 | | | °C |

UV-LED

UVC (WHO standard: 265nm)



| | |
|-------------------------|---|
| Product features | <ul style="list-style-type: none"> ◆ High-power chip (industrial grade) with radiant flux (output) of 1.2W ◆ Peak wavelength 265nm, optimum for sterilization ◆ 35C6 packaged chip carried on high thermal conductivity alumina substrate, better heat dissipation |
|-------------------------|---|

| Name | | DUV sterilizing chip 265 | | | | |
|---------------------------------------|------------------|--------------------------|-----|------|-----|------|
| Model | | DLP(COBCu)-001W48M6 | | | | |
| Parameters | | | | | | |
| Parameter | Symbol | If | Min | Typ | Max | Unit |
| Peak wavelength | λ_p | 350mA | 260 | 265 | 270 | nm |
| Radiant flux (output) | Φ_e | 350mA | - | 1200 | - | mW |
| Forward voltage (input) | V_f | 350mA | 5.7 | 6 | 7.0 | V |
| Full width at half maximum | $\Delta\lambda$ | 350mA | | 10.0 | | nm |
| Viewing angle | $2\theta_{1/2}$ | 350mA | | 125 | | ° |
| Thermal resistance (test temperature) | $R_{\theta J-s}$ | 350mA | | 21.0 | | °C |



| | |
|-------------------------|---|
| Product features | <ul style="list-style-type: none"> ◆ Ultra-high-power chip (industrial grade) with radiant flux (output) of 4.2W ◆ Chip carried on upgraded ultra-high thermal conductivity alumina substrate, better heat dissipation and high thermal resistance ◆ Shorter sterilization time, enhanced sterilization effect |
|-------------------------|---|

| Name | | DUV sterilizing chip 265 | | | | |
|---------------------------------------|------------------|--------------------------|------|------|------|------|
| Model | | DLP(COBCu)-004W96M6 | | | | |
| Parameters | | | | | | |
| Parameter | Symbol | If | Min | Typ | Max | Unit |
| Peak wavelength | λ_p | 350mA | 260 | 265 | 270 | nm |
| Radiant flux (output) | Φ_e | 350mA | 3500 | 3900 | 4200 | mW |
| Forward voltage (input) | V_f | 350mA | 11.4 | 12 | 14 | V |
| Full width at half maximum | $\Delta\lambda$ | 350mA | | 10.0 | | nm |
| Viewing angle | $2\theta_{1/2}$ | 350mA | | 125 | | ° |
| Thermal resistance (test temperature) | $R_{\theta J-s}$ | 350mA | | 21.0 | | °C |

UV-LED

UVC (Chinese national standard: 254nm)



Product features

- ◆ Chinese national standard for sterilization waveband: 254nm
- ◆ Radiant flux (output) 40mW
- ◆ Chip carried on copper substrate, better heat dissipation

| Name | | DUV sterilizing chip 254 | | | | |
|---------------------------------------|--------------------|--------------------------|------|-----|-----|------|
| Model | | DLP(SMD)-040M35C5 | | | | |
| Parameters | | | | | | |
| Parameter | Symbol | If | Min | Typ | Max | Unit |
| Peak wavelength | λ_p | 350mA | 260 | 265 | 270 | nm |
| Radiant flux (output) | Φ_e | 350mA | 30 | 40 | 50 | mW |
| Forward voltage (input) | V_f | 350mA | 5.2 | 5.5 | 7.0 | V |
| Full width at half maximum | $\Delta\lambda$ | 350mA | 10.0 | | | nm |
| Viewing angle | $2\theta_{1/2}$ | 350mA | 125 | | | ° |
| Thermal resistance (test temperature) | $R_{\theta_{J-s}}$ | 350mA | 21.0 | | | °C |



Product features

- ◆ New III-generation packaging technology, radiant flux (output) 263mW
- ◆ Chip carried on copper substrate, better heat dissipation,
- ◆ Shorter sterilization time, enhanced sterilization effect

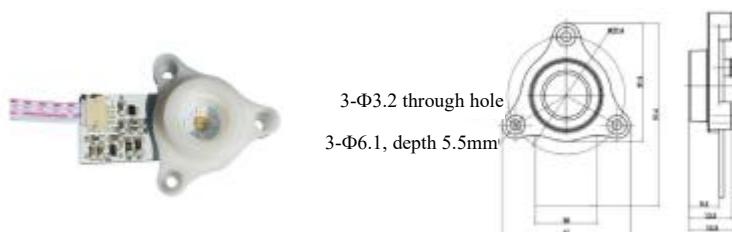
| Name | | DUV sterilizing chip 254 | | | | |
|---------------------------------------|--------------------|------------------------------|------|-----|-----|------|
| Model | | DLP(COBCu)-066M48M254 | | | | |
| Parameters | | | | | | |
| Parameter | Symbol | If | Min | Typ | Max | Unit |
| Peak wavelength | λ_p | 350mA | 250 | 254 | 260 | nm |
| Radiant flux (output) | Φ_e | 350mA | 80 | 86 | 90 | mW |
| Forward voltage (input) | V_f | 350mA | 5.2 | 5.5 | 7.0 | V |
| Full width at half maximum | $\Delta\lambda$ | 350mA | 10.0 | | | nm |
| Viewing angle | $2\theta_{1/2}$ | 350mA | 125 | | | ° |
| Thermal resistance (test temperature) | $R_{\theta_{J-s}}$ | 350mA | 21.0 | | | °C |

MODULE

Static water sterilizing module



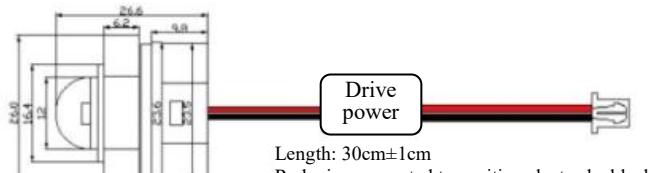
| Name 74 series DUV sterilizing module | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Model | DLM-050M0074 | DLM-109M0074 | DLM-263M0074 | DLM-218M0074 | DLM-526M0074 |
| Voltage(V) | 12 | 12 | 12 | 12 | 12 |
| Radiant flux (mW) | 50 | 109 | 263 | 218 | 526 |
| Power consumption (W) | 1.925 | 1.925 | 1.925 | 1.925 | 1.925 |
| Mounting hole (mm) | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 |
| Input interface | HX25043-2P | HX25043-2P | HX25043-2P | HX25043-2P | HX25043-2P |
| Waterproofing level | Front waterproof IPX8 |
| Operating temperature (°C) | -25~50 | -25~50 | -25~50 | -25~50 | -25~50 |
| Sterilization rate | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% |



| Name 83 series DUV sterilizing module | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Model | DLM-050M0083 | DLM-109M0083 | DLM-263M0083 | DLM-218M0083 | DLM-526M0083 |
| Voltage(V) | 12 | 12 | 12 | 12 | 12 |
| Radiant flux (mW) | 50 | 109 | 263 | 218 | 526 |
| Power consumption (W) | 1.925 | 1.925 | 1.925 | 1.925 | 1.925 |
| Mounting hole (mm) | 23 | 23 | 23 | 23 | 23 |
| Input interface | HX25043-4P | HX25043-4P | HX25043-4P | HX25043-4P | HX25043-4P |
| Waterproofing level | Front waterproof IPX5 |
| Operating temperature (°C) | -25~25 | -25~25 | -25~25 | -25~25 | -25~25 |
| Sterilization rate | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% |

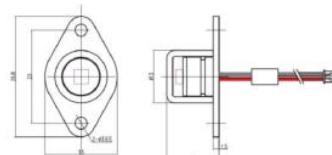
MODULE

Static water sterilizing module



Length: 30cm±1cm
Red wire connected to positive electrode, black wire connected to negative electrode

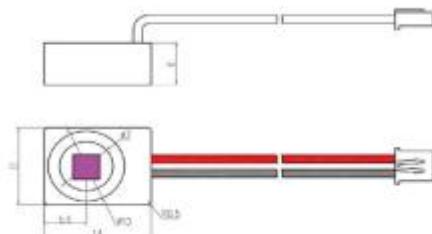
| Name | | | | | |
|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Model | DLM-050M0085 | DLM-109M0085 | DLM-263M0085 | DLM-218M0085 | DLM-526M0083 |
| Voltage(V) | 12 | 12 | 12 | 12 | 12 |
| Radiant flux (mW) | 50 | 109 | 263 | 218 | 526 |
| Power consumption (W) | 1.925 | 1.925 | 1.925 | 1.925 | 1.925 |
| Mounting hole (mm) | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 |
| Input interface | XH-2Y | XH-2Y | XH-2Y | XH-2Y | XH-2Y |
| Waterproofing level | Front waterproof IPX8 |
| Operating temperature (°C) | -25~50 | -25~50 | -25~50 | -25~50 | -25~50 |
| Sterilization rate | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% |



| Name | | | | | |
|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Model | DLM-050M0243 | DLM-109M0243 | DLM-263M0243 | DLM-218M0243 | DLM-526M0243 |
| Voltage(V) | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| Radiant flux (mW) | 50 | 109 | 263 | 218 | 526 |
| Power consumption (W) | 1.925 | 1.925 | 1.925 | 1.925 | 1.925 |
| Mounting hole (mm) | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| Input interface | XH-2Y | XH-2Y | XH-2Y | XH-2Y | XH-2Y |
| Waterproofing level | Front waterproof IPX8 |
| Operating temperature (°C) | -25~50 | -25~50 | -25~50 | -25~50 | -25~50 |
| Sterilization rate | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% |

MODULE

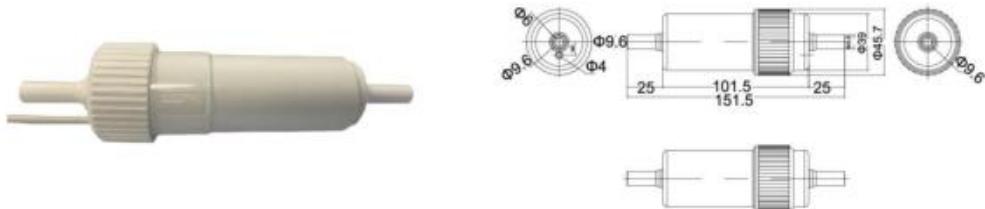
Static water sterilizing module



| Name | | 241 series DUV sterilizing module | | | | |
|----------------------------|-----------------------|-----------------------------------|-----------------------|-----------------------|-----------------------|--|
| Model | DLM-050M0241 | DLM-109M0241 | DLM-263M0241 | DLM-218M0241 | DLM-526M0241 | |
| Voltage(V) | 12 | 12 | 12 | 12 | 12 | |
| Radiant flux (mW) | 50 | 109 | 263 | 218 | 526 | |
| Power consumption (W) | 1.925 | 1.925 | 1.925 | 1.925 | 1.925 | |
| Mounting hole (mm) | / | / | / | / | / | |
| Input interface | XH-2Y | XH-2Y | XH-2Y | XH-2Y | XH-2Y | |
| Waterproofing level | Front waterproof IPX8 | Front waterproof IPX8 | Front waterproof IPX8 | Front waterproof IPX8 | Front waterproof IPX8 | |
| Operating temperature (°C) | -10~40 | -10~40 | -10~40 | -10~40 | -10~40 | |
| Sterilization rate | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% | |

MODULE

Water-through dynamic water sterilizing module



| 241 series DUV sterilizing module | | | | | |
|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Name | DLM-050M0241 | DLM-109M0241 | DLM-263M0241 | DLM-218M0241 | DLM-526M0241 |
| Model | DLM-050M0241 | DLM-109M0241 | DLM-263M0241 | DLM-218M0241 | DLM-526M0241 |
| Voltage(V) | 12 | 12 | 12 | 12 | 12 |
| Radiant flux (mW) | 50 | 109 | 263 | 218 | 526 |
| Power consumption (W) | 1.925 | 1.925 | 1.925 | 1.925 | 1.925 |
| Mounting hole (mm) | / | / | / | / | / |
| Input interface | XH-2Y | XH-2Y | XH-2Y | XH-2Y | XH-2Y |
| Waterproofing level | Front waterproof IPX8 |
| Operating temperature (°C) | -10~40 | -10~40 | -10~40 | -10~40 | -10~40 |
| Sterilization rate | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% |

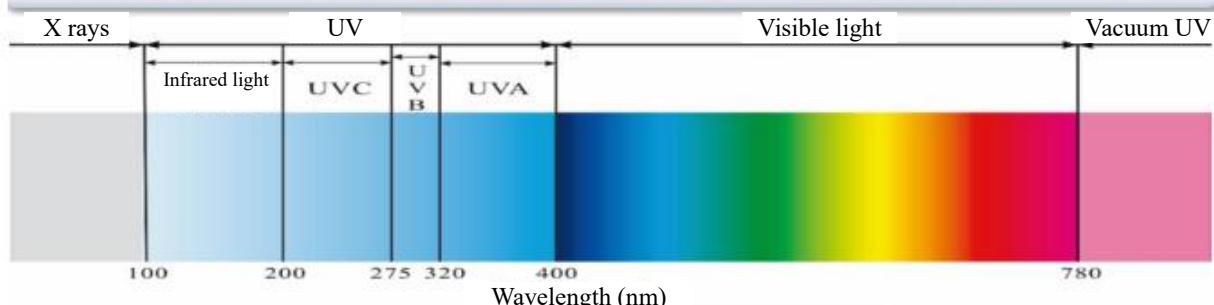
Air cleaning and sterilizing module



| 224 series DUV sterilizing module | | | | | |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|
| Name | DLM-050M0224 | DLM-109M0224 | DLM-263M0224 | DLM-218M0224 | DLM-526M0224 |
| Model | DLM-050M0224 | DLM-109M0224 | DLM-263M0224 | DLM-218M0224 | DLM-526M0224 |
| Voltage(V) | 12 | 12 | 12 | 12 | 12 |
| Radiant flux (mW) | 50 | 109 | 263 | 218 | 526 |
| Power consumption (W) | 1.925 | 1.925 | 1.925 | 1.925 | 1.925 |
| Mounting hole (mm) | / | / | / | / | / |
| Input interface | XH-2A | XH-2A | XH-2A | XH-2A | XH-2A |
| Waterproofing level | / | / | / | / | / |
| Operating temperature (°C) | -25~50 | -25~50 | -25~50 | -25~50 | -25~50 |
| Sterilization rate | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% | ≥99.99% |

UV detector introduction

UV photodetector: It can detect the solar-blind UV radiation in the atmosphere, superior in high sensitivity and low rate of required alarm



UV classification:

UVC 200~275nm

UVB 275~320nm

UVA 320~400nm

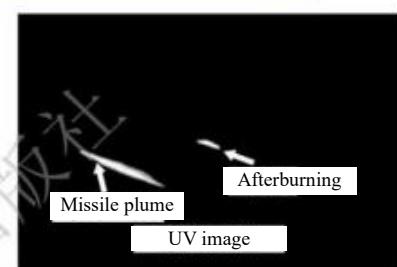
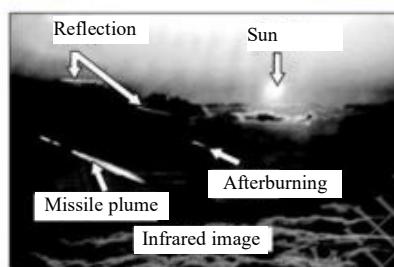
The UV radiation on the earth's surface comes from the sun

The atmospheric ozone, haze and others absorb the UV radiation

UVC is impenetrable

UVC is solar-blind UV

There is no UVC-band UV noise on the earth's surface



Characteristics of UV detection technology

- ◆ Characteristics of UV radiation: **Strong scattering and solar-blind UV**
- ◆ Application prospects: The military application of the UV detection technology has attracted much attention and is developing rapidly;
- ◆ Application areas: UV guidance, UV communication, UV alarming, UV explosion suppression, UV surveillance, UV hiding, airborne radar, etc.

DETECTOR

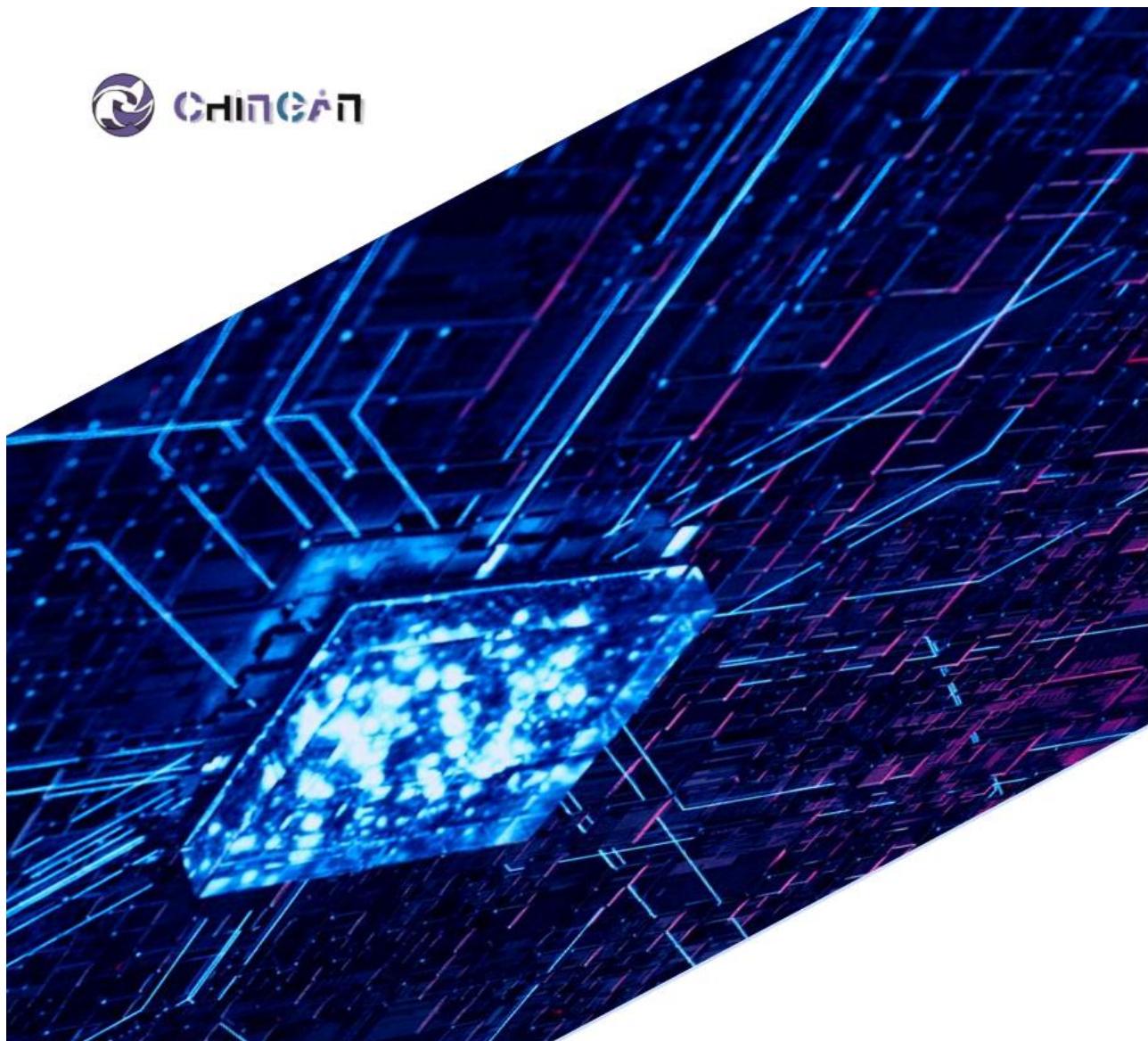
UV detector chip series



| | |
|-------------------------|---|
| Product features | <ul style="list-style-type: none"> ◆ Excellent single photon detection sensitivity ◆ Long optical detection work distance (spectrum response: 210~280nm), effective detection area 0.965mm², good temperature stability ◆ Excellent single photon detection sensitivity ◆ Long optical detection work distance (spectrum response: 210~280nm), effective detection area 0.965mm², good temperature stability ◆ Excellent single photon detection sensitivity |
|-------------------------|---|

| Name Model | DUV single-PD detector | | | | | |
|---|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | DTP01P-254AA01-01 | DTP01P-254AA01-02 | DTP01P-254AA01-03 | DTP01P-254AA01-04 | DTP01P-254AA01-05 | DTP01P-254AA01-06 |
| Response wavelength range (nm) | 210-280 | 210-280 | 210-280 | 210-280 | 210-280 | 210-280 |
| Response center wavelength (nm) | 254 | 254 | 254 | 254 | 254 | 254 |
| Sensitive area (| 0.965 | 0.965 | 0.965 | 0.965 | 0.965 | 0.965 |
| Dark current (μA) | | | | | | |
| Feedback resistance (MΩ) | 10 | 100 | 1000 | 10 | 100 | 1000 |
| Dark voltage (mV) (Test condition: E=0 lx) | ±1 | ±2 | ±3 | ±1 | ±2 | ±3 |
| Noise voltage (mV _{rms}) (Test condition: B=1 kHz) | 1 | 1 | 1 | 1 | 1 | |
| Short circuit current (mA) | ±50 | ±50 | ±50 | ±50 | ±50 | ±50 |
| Saturation voltage (V) (Test condition: R _L =2 kΩ) | 4.68(4.6) | 4.68(4.6) | 4.68(4.6) | 4.68(4.6) | 4.68(4.6) | 4.68(4.6) |
| Maximum peak responsivity (mV/nW) | 0.6 | 6 | 60 | 0.6 | 6 | 60 |
| Operating voltage (V) | 2.7~5 | 2.7~5 | 2.7~5 | 2.7~13.2 | 2.7~13.2 | 2.7~13.2 |
| Maximum input current (μA) | 750(1100) | 750(1100) | 750(1100) | 550(660) | 550(660) | 550(660) |
| Rise time (μS) | 30 | 150 | 600 | 30 | 150 | 600 |
| Bandwidth (kHz) (Test condition : -3dB) | 10 | 2 | 0.5 | 10 | 2 | 0.5 |
| Operating temperature (°C) | -25~+85 | -25~+85 | -25~+85 | -25~+85 | -25~+85 | -25~+85 |
| Storage temperature (°C) | -40~+100 | -40~+100 | -40~+100 | -40~+100 | -40~+100 | -40~+100 |
| Welding temperature (°C) | 300 | 300 | 300 | 300 | 300 | 300 |





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