CrackCheck®

Apollo365
Module-based UV LED Panel

Super Large Coverage
Adjustable Intensity
Replaceable LED Module

Apollo Series LED UV Panel
* * 365-370nm·Super size·Expandable * *
Input:110-260V,50/60Hz
Model:AP365/12
S/N:608001

Ultraviolet Source Eye and Skin Hazard
DO NOT LOOK DIRECTLY AT LIGHT
UV 365nm
www.crackcheck.com
Innovated & Made in Shanghai by CHINDT

开/关
NO/OFF

紫光/白光
UV/W

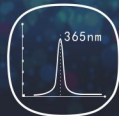| Customized UV LED Quantity	Super Large Coverage	Adjustable Intensity	Easy Maintenance	Safe Spectrum	Excellent Cooling Ability	High Intensity	Economical

365nm

Multiple LED Configuration

- Flood & Spot UV Module Interchangeable
- Customize UV Intensity & Coverage
- 5-level UV Intensity

LED Module

- High Intensity & Uniform Beam
- Optical Lens + UV Filter
- Repair Friendly

Rugged Design

- Aviation Grade Aluminum Housing
- Finned Heat Dissipating Design
- Mechanical Cooling & Fans Cooling

Features >>>

- Instant maximum output without pre-heating.
- Switch function between UV light and white light.
- LED module-based design with excellent maintainability.
- Safe and pure UV-A centering at 365nm.
- UV filter ensuring visible light less than 5 Lux.
- Horizontally and longitudinally expandable with standard connectors.
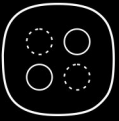- 100% solid state circuit ensuring working properly in strong magnetic field.

开/关
NO/OFF

紫光/白光
UV/W

CE ISO 9001 RoHS NPS

✔ASTM E3022   ✔ASTM E1444   ✔ASTM E1417
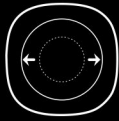
CrackCheck®

Apollo365
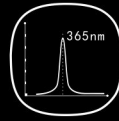### Module-based UV LED Panel

- Customized UV LED Quantity
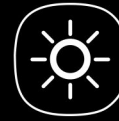- Super Large Coverage
- Adjustable Intensity
- Easy Maintenance
- Safe Spectrum
- Excellent Cooling Ability
- High Intensity
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Super Large Coverage
Adjustable Intensity
Replaceable LED Module

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UV/W

Apollo 365 Module-based UV LED Panel

Rugged Design
- Aviation Grade Aluminum Housing
- Finned Heat Dissipating Design
- Mechanical Cooling & Fans Cooling

Multiple Mounting Options
- Chain Hanging
- Angle-adjustable Bracket
- Expendable with Standard Connectors

LED Module
- High Intensity & Uniform Beam
- Optical Lens + UV Filter
- Easy Maintenance & Repair

DIY Panel
- Multiple LED Configuration Options
- UV LED Module (Flood & Spot) + White LED Module

✔ ASTM E3022 ✔ ASTM E1444 ✔ ASTM E1417

CE   ISO 9001   RoHS NPS

Customize Your Ideal UV LED Panel!
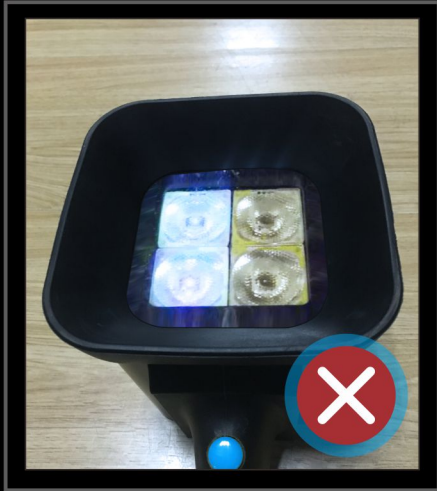
Spot
UV LED Module

Flood
UV LED Module

Flood
White Light LED Module

How much do know about LED UV lamp?

Does LED UV Lamp really last for 10,000 - 50,000 hours as stated?

The lifespan of LED UV lamp primarily depends on the lifespan of the LEDs of it. The stated lifespan of LED UV lamps on the market is usually based on the theoretical data from the laboratory where the environmental temperature of the LEDs to be tested is strictly controlled at 25℃ (77℉). However, the working environment, temperature and the ventilation conditions of factory workshops are much harsher than that of the laboratory, so the real lifespan of LED is much less than its statement. Based on our market research, the lifespan of LED in workshops is about 1.5-2 years and usually the expected value in tropic and subtropic zones is even lower.

Can I repair or replace the LED when it blows off?

LEDs should be welded onto the board with special equipment due to its unique characteristics, which is nearly impossible for the end users to repair it by themself. In addition, most LED UV lamps on the market are designed with series connected LEDs in a single circuit board. If a single LED stops working, the other LEDs will blow off subsequently due to the fact that the broken LED chip leads to varied electrical resistance and voltage redistribution for each LED.
For the repair of most LED UV lamps on the market, the whole LED board with many LEDs in series will be replaced with a new one, which is time, effort and money consuming. In one word, the repair of the LED UV lamp is much more complex than that of the buld-based mercury lamp.

CHiNDT R&D Center
Your UV Expert at Hand

The World's First UV LED Lamp with Replaceable Single Module

Long-lasting   Easy Maintenance   Large Coverage   Economical

To fix above problems of the UV LED lamp on the market, the world's first completely module-based LED UV lamp, Apollo 365 is launched by CHiNDT with the feature of easy repair and maintenance!
The design of Apollo 365 originates from the bulb-based mercury lamp: When one LED module blows off, replace with a new LED module, and back to work immediately.
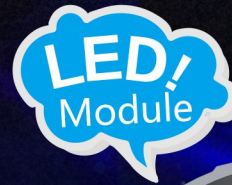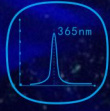
LED Module
ATOM™
Make the Maintenance Easier

ATOM™

Lager Coverage · **Easy Maintenance** · **Safe Spectrum** · **High Intensity** · **Economical**

Apollo 365 UV LED panel is a fully modularized product. LED modules is to Apollo 365 what atoms to molecule, therefore, LED module is named ATOM™. ATOM™ is simply fixed on the circuit board with 2 screws, which is conveninet for operators to replace a new LED module once it blows off.

ATOM™ has three types: Flood UV LED module-ATOM™ Flood, Spot UV LED module-ATOM™ Spot and White LED module-ATOM™ White. ATOM™ Flood and ATOM™ Spot are interchangable based on your needs. You can customized your Apollo 365 by choosing different ATOM™ combinations to ensure the ideal UV intensity and coverage!

Technical Data »»

ATOM™ Model	Part No.	Figure	Features	Beam
ATOM™ Spot	AP-E-01		• High UV Intensity • Anti-aging Optical Lens	
ATOM™ Flood	AP-E-02		• Large Coverage • Uniform Beam • Anti-aging Optical Lens	
ATOM™ White	AP-E-03		• Large Coverage • Uniform Beam	

Speciallly Designed for Apollo365

--------- Patent Pending ---------

Apollo365-L

LED Module-based Large Coverage

Apollo365/L overhead panel utilizes the state-of-art LED technology and makes it a great tool for fluorescent MT, PT and leak detection. The standard version consists of 8 UV LEDs and 2 white LEDs, which ensures high UV intensity and large coverage. Made of aviation grade aluminum alloy, Apollo365/L will endure the harshest working conditions. Apollo365/L highlights its rugged design, excellent cooling ability, waterproof and dustproof performance. The unique fearture of Apollo365/L is its module-based design. Its illumination area is up to 540*520mm!

Apollo365/L abandons the design of many LEDs welded on the same board in series. Each LED of Apollo365/L is encapsulated as an independent unit - ATOM™ . ATOM™ Flood and ATOM™ Spot are interchangalbe to make your preferred Apollo365/L with the desired UV intensity and coverage area. Besides, the electrical board is 5-level adjustable, which offers you more intensity possibilities.

UV Intensity

Model	LED Combination	Layout	Intensity
AP365-L	8 UV LEDs 2 White LEDs		3500-4600μw/cm^2

Technical Data

Item	Technical Data
LED Source	8 UV LEDs, 2 White LEDs
Wavelength	365-370nm
Dimension	400*200*86mm
Coverage	540*520mm
Intensity	3500-4600uw/cm^2
Visibile Light	＜5Lux
Weight	4.5Kg
Power Input	170-260V，50/60Hz
Power Output	24V，5A
Rated Power	UV-A 4W*8

Dimension

400mm
200mm
200mm
86mm
400mm
86mm

Irradiance Profile

500 400 300 200 100 0 100 200 300 400 500
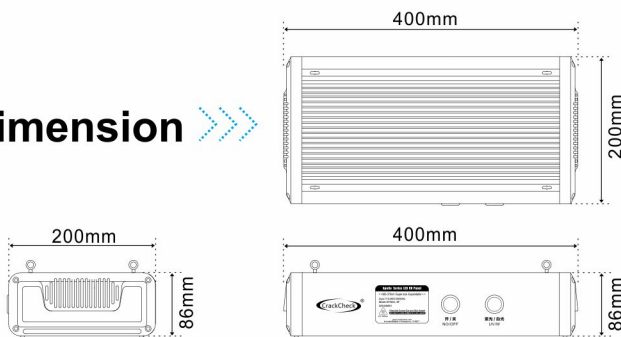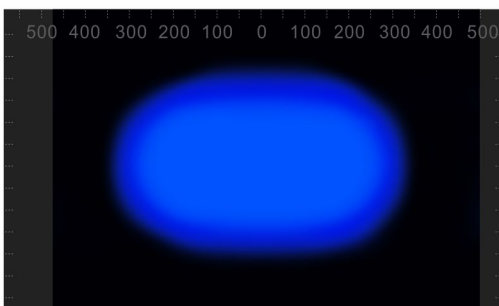
Coverage: 540mm*520mm (at 38cm)
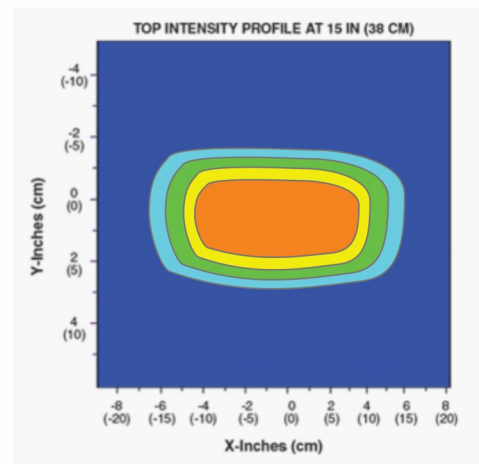
TOP INTENSITY PROFILE AT 15 IN (38 CM)

Y-Inches (cm)

X-Inches (cm)

Packing List

Apollo365 UV LED Panel · Mains Cable · Hanging Chain · Hanging Ring · Documentation (COC, Operration Manual,etc.)

Apollo365-XL

LED Module-based Super Large Coverage

Apollo365/XL overhead panel utilizes the state-of-art LED technology and makes it a great tool for fluorescent MT, PT and leak detection. The standard version consists of 16 UV LEDs and 4 white LEDs, which ensures high UV internsity and large coverage. Made of aviation grade aluminum alloy, Apollo365/XL will endure the harshest working conditions. Apollo365/XL highlights its rugged design, excellent cooling ability, waterproof and dustproof performance. The unique feature of Apollo365/XL is its module-based design. Its illumination area is up to 730*520mm!

Apollo365/XL abandons the design of many LEDs welded on the same board in series. Each LED of Apollo365/XL is encapsulated as an independent unit - ATOM™. ATOM™ Flood and ATOM™ Spot are interchangalbe to make your preferred Apollo365/XL with the desired UV intensity and coverage area. Besides, the electrical board is 5-level adjustable, which offers you more intensity possibilities.
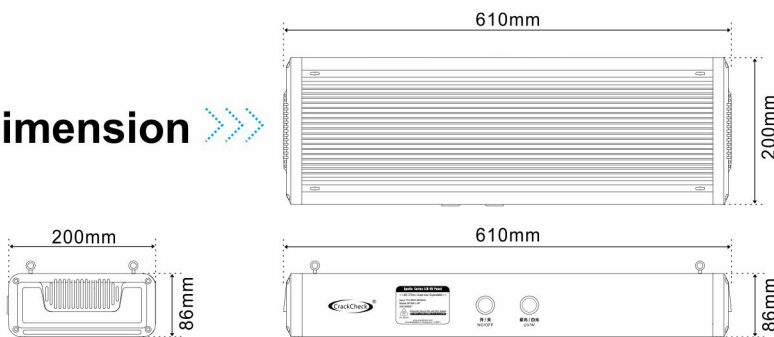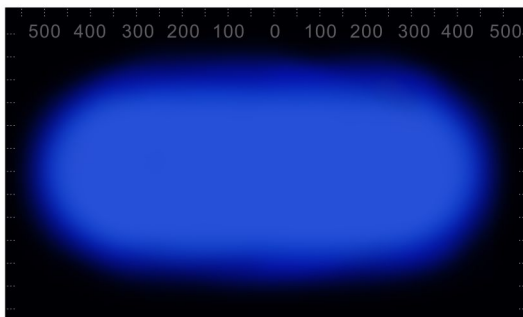
UV Intensity

Model	LED Combination	Layout	Intensity
AP365-XL	16 UV LEDs 4 White LEDs		4800-5700µw/cm²

Technical Data

Item	Technical Data
LED Source	16 UV LEDs, 4 White LEDs
Wavelength	365−370nm
Dimension	610*200*86mm
Coverage	730*520mm
Intensity	4800−5700uw/cm²
Visibile Light	<5Lux
Weight	8Kg
Power Input	170−260V，50/60Hz
Power Output	24V，5A
Rated Power	UV-A 4W*16

Dimension

610mm

200mm

200mm

86mm

610mm

86mm

Irradiance Profile

500 400 300 200 100 0 100 200 300 400 500

Coverage: 730mm*520mm (at 38cm)
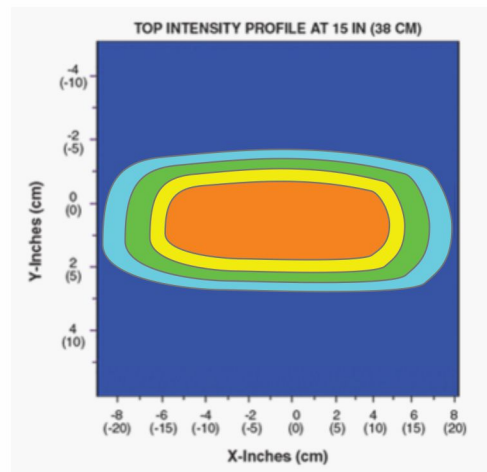
TOP INTENSITY PROFILE AT 15 IN (38 CM)

Y-Inches (cm)

X-Inches (cm)

Packing List

Apollo365 UV LED Panel

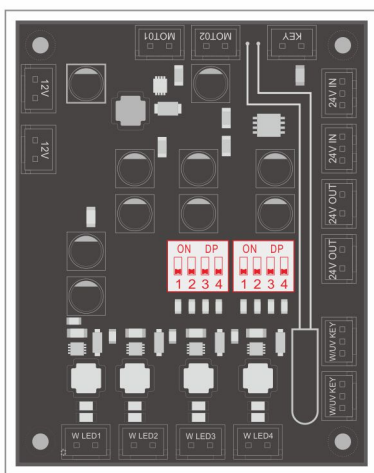Mains Cable

Hanging Chain

Hanging Ring

Documentation (COC, Operration Manual,etc.)

Apollo365
DIY Panel

LED Current Driving Board

Adjust the UV Intensity

Level 0 (0 ON, 8 OFF)
Current: 500mA

Level 1 (2 ON, 6 OFF)
Current: 600mA

Level 2 (4 ON, 4 OFF)
Current: 800mA

Level 3 (6 ON, 2 OFF)
Current: 1000mA

Level 4 (8 ON, 0 OFF)
Current: 1200mA

- There are two drive boards on Apollo365-XL, shall adjust two borads simultaneously to keep them at the same intensity level.
- Lifespan of LED module depends on current level going through it.

Intensity Table »»

Model	Combinantion	Layout	Module Type	Level 0	Level 1	Level 2	Level 3	Level 4
AP365-L	6 UV LEDs 4 White LEDs		Spot	6400µw/cm^2	6900µw/cm^2	7300µw/cm^2	7600µw/cm^2	8100µw/cm^2
	8 UV LEDs 2 White LEDs		Flood	3400µw/cm^2	3700µw/cm^2	4000µw/cm^2	4300µw/cm^2	4600µw/cm^2
	10 UV LEDs		Flood	4150µw/cm^2	4550µw/cm^2	4940µw/cm^2	5340µw/cm^2	5680µw/cm^2

| Model	Combinantion	Layout	Module Type	Level 0	Level 1	Level 2	Level 3	Level 4
AP365-XL	16 UV LEDs 4 White LEDs		Flood	4800µw/cm^2	5000µw/cm^2	5300µw/cm^2	5500µw/cm^2	5700µw/cm^2
	20 UV LEDs		Flood	/	/	/	/	/

Need higher UV intensity?

❶ ATOM™ Flood and ATOM™ Spot and Spot module are interchangeable and can be installed on the same board, which offers more combination of UV intensity and coverage area to meet specific inspection demand.

❷ Get the highest UV output by adjusting the current level. The UV intensity is designed up to 10,000uw/cm at 38 cm.
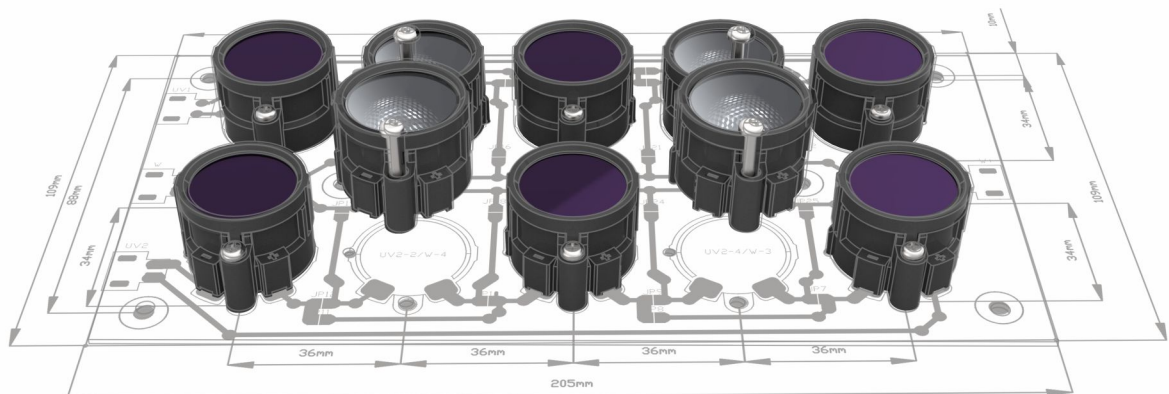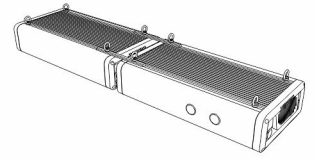
Mounting Option ≫
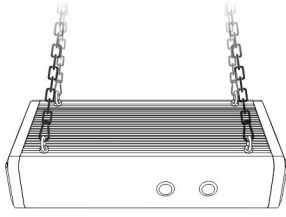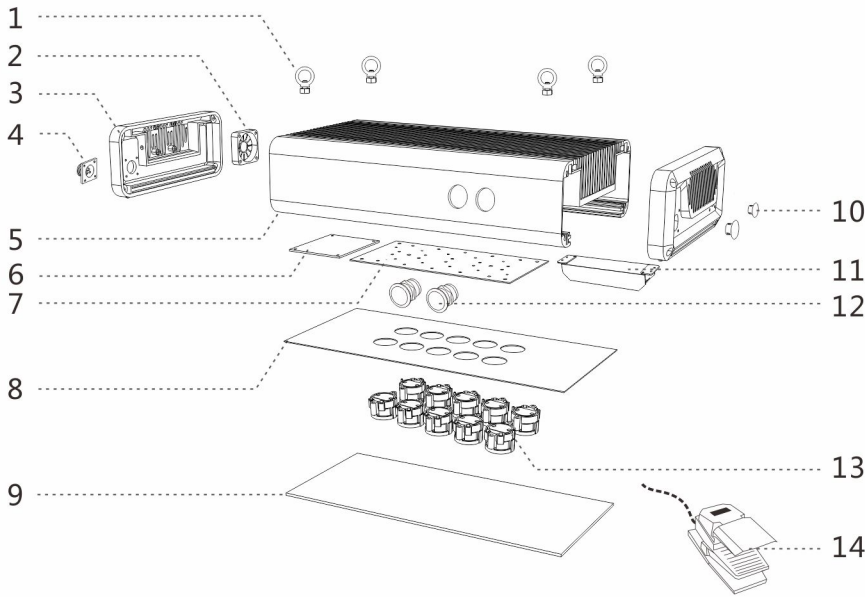

Hanging Chain
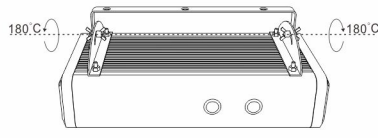
Bracket (Angle Adjustable)

① Standard Aluminum Connector for horizontal extension

② Standard AluminumConnector for longitudinal extension

Assemblying Drawing ≫

❶	Hanging Ring	❽ LED Cover Panel
❷	Cooling Fan	❾ Protecting Glass
❸	Side Cover	❿ Pedal Button Plug
❹	Power Connector	⓫ Power Adapter
❺	Aluminium Housing	⓬ Button
❻	Drive Board	⓭ LED Module
❼	LED Board	⓮ Switch Pedal Button

Part List ≫

| UV LED Module ATOM™ Spot	UV LED Module ATOM™ Flood	White LED Module ATOM™ White	Power Adapter	Drive Board	Cooling Fan
AP-E-01 (Spare Part)	AP-E-02 (Spare Part)	AP-E-03 (Spare Part)	AP-D-01	AP-C-02	AP-D-05 (Spare Part)
LED Board	**Power Cable**	**Power Connector**	**Button**	**Switch Pedal Button**	**Hanging Ring**
AP-C-01	AP-E-01	AP-D-02 (Spare Part)	AP-D-04 (Spare Part)	AP-D-10 (Optional)	AP-D-08 (Optional)
Suspension Chain	**Rotate Bracket**	**Horizontal Connector**	**Longitudinal Connector**	**Side Cover**	**Protecting Glass**
AP-D-09 (Optional)	AP-C-05 (Optional)	AP-C-06 (Optional)	AP-C-07 (Optional)	AP-A-01	AP-C-04

Apollo365

Repair Instruction
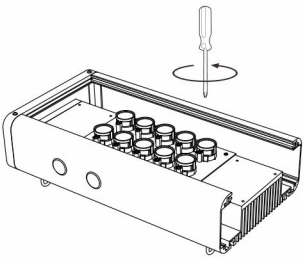
MUST KEEP THE POWER-OFF DURING THE WHOLE PROCESS
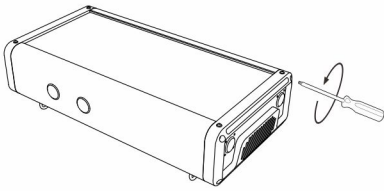
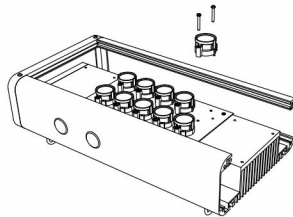❶ Use hex key to unscrew the screws counterclockwise and remove the side cover.
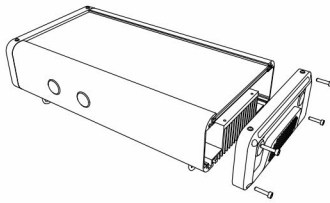
❷ Remove the side cover carefully and prevent the connecting cable from being pulled apart.
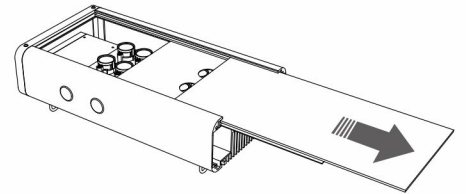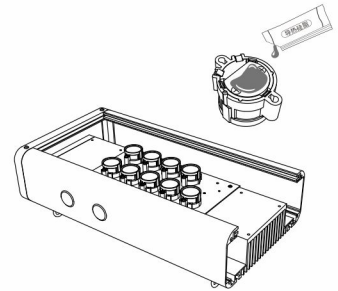
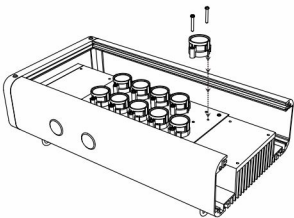❸ Pull out the protecting glass and the LED cover.

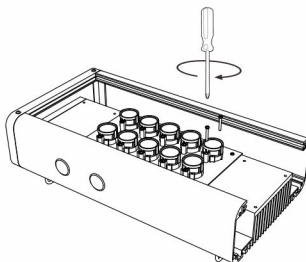❹ Use the phillips screwdriver to unscrew the broken LED module counterclockwise.

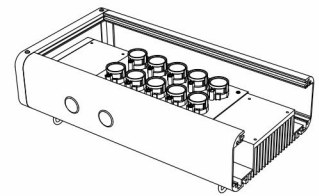❺ Remove the broken LED module vertically carefully.

❻ Apply the silicone thermal grease on the bottom of the new LED module, but keep the metal contact CLEAR (No grease on it). Clean the metal contact if needed.
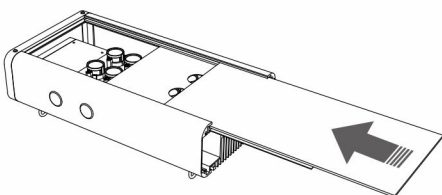
❼ Locate the check point and put the new LED module on the LED board.
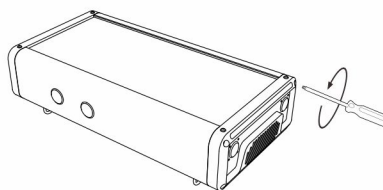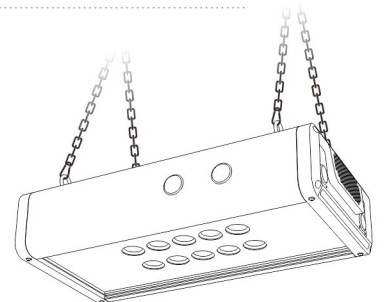
❽ Use phillips screwdriver to fix the new LED module.

❾ Turn on the lamp to check if the LED modules work.

❿ Put the LED cover and the protecting glass back to position.

⓫ Fix the side cover.

⓬ Check and test, done!