

# USER MANUAL



**200W LED BEAM Spot WASH Moving Head**

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Thank for your taking this product. In order to avoid potential hazards may cause bodily injury, property damage or product damage, please read carefully and fully understand all the guidance in this manual before any operation of this fixture. The Company does not undertake any direct loss and associated loss of the manual instructions pressed caused.

## Introduction:

200W LED SPOT

Parameter:

Technical Parameter

Voltage: AC100V-240V 50/60Hz

Power: 300W

Light Source: 200W white led source

Ballast: Electronic Ballast

Channels: DMX 18/20 Channels

Color wheel: 9 colors + open.

Gobo: One fixed gobo wheel with 9 gobos+ open

One indexing rotating gobo wheel with 7 replaceable gobos+ open

Prism: 3 facet prism and prism zoom

Frost: Gradually frost

**Dimmer:** 0~100% linear dimmer adjust.

Strobe: 0-13/sec variable strobe effect

**Zoom angle:** 7° ~21°

**Beam angle:** 0° ~5°

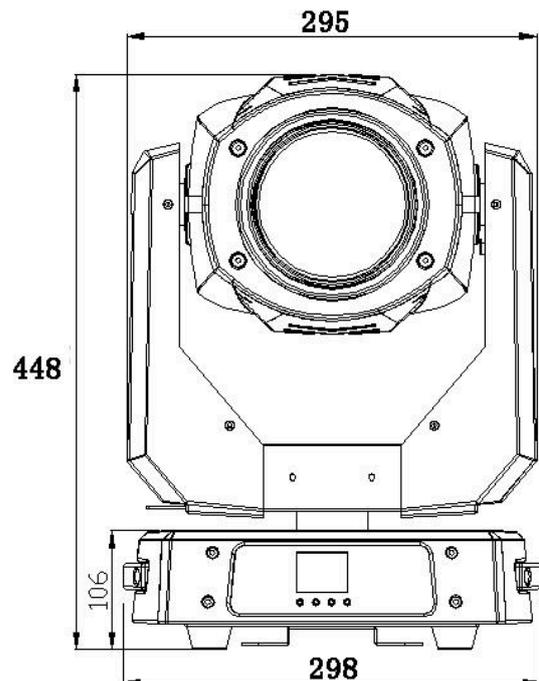
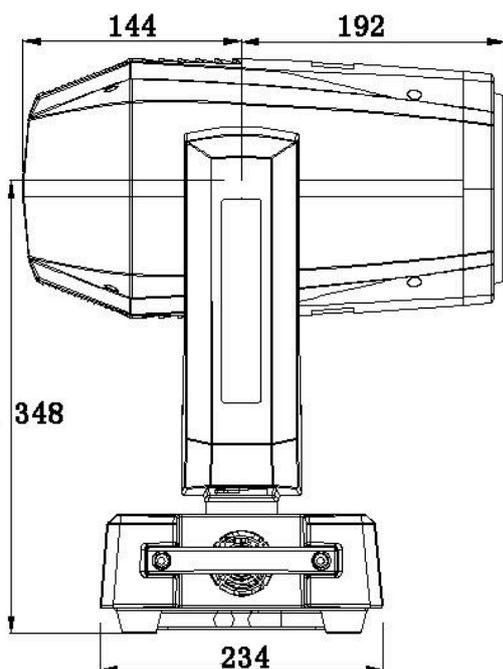
Movement: Pan 540° ,16 bit resolution

Tilt 270° ,16 bit resolution

IP Grade: IP20

Dimension: 525\*308\*335

Net Weight: 13.8KGS



## Safety Information

### WARNING:

Read the Safety Information Chapter before any installation, connection to power and maintenance of this product,



For Professional use only!

This product would cause serious injury or fatal electric shock, burning, lamp explosion, falling. Read the Safety Information Chapter before installation, power, and maintenance. Follow the safety guidance on light body



### Shock protection

- ◆ Disconnect the external power supply when open the cover or replacement parts, or lamps not in use.
- ◆ Ensure reliable equipment and used with overload protection and grounding and lighting that matches the AC voltage frequency
- ◆ Use 5A rated load over three-core power cable
- ◆ Before use, ensure that the cable is in a normal state and is suitable for the amount of current connected devices
- ◆ When power cable or plug is damaged, wet or power is overheating, disconnect power immediately
- ◆ Do not expose this product to rain or humid air
- ◆ Safely grounded



### Lamp Safety

- ◆ Prolonged exposure can cause eye and skin burns Before adding blocking ultraviolet discharge bulbs, do not look directly into the mouth and lit light bulb
- ◆ Cover, light barrier, lenses, protective screen or damaged insulation sheet lamps, do not use
- ◆ Protective screen on lamps, lenses or ultraviolet screens if produce visible damage, that damage to the extent of the failure, such as when cracks or deep marks, should be replaced
- ◆ Lamps should only be used with the full use of protective cover Strip
- ◆ Hot strong pressure discharge lamp may explode without warning phenomenon  
Therefore, maintenance or operation of the bulb inside the lamp body shall wear goggles and gloves and ensure adequate cooling fixtures
- ◆ Do not use defective, damaged or have any other defective bulb, the bulb is damaged or deformed, replace
- ◆ Monitor lamp usage time and the light fades, the specification or in front of the bulb manufacturer rated lamp life lamp replacement
- ◆ Bulbs installed to comply with the relevant safety requirements
- ◆ If the lamp is broken quartz sphere, will release a small amount of mercury and toxic gas. If you are in a small space, please evacuate and thorough ventilation of this space as soon as possible, collect the ruptured lamp should wear protective gloves, not to be thrown away when the light bulb scrapped, should these poisonous dangerous goods sent to specialized treatment institutions



### **Burns and fire prevention**

- ◆ Exterior lighting during use may be relatively high temperature, avoid contact with the human body or other object, please let the lamp to cool sufficiently before handling
- ◆ Ensure combustible materials (such as: fabric, wood, paper, etc.) at least 0.2 meters away from the lamps, flammable items away from the equipment as possible, to ensure that air inlet and outlet of at least 0.1 meters of space
- ◆ Do not directly irradiated surfaces within 10 m range
- ◆ During the day when the lens cover or turn the direction of the lens to avoid direct sunlight on the lens, because the lens can focus the sun causing a potential fire hazard
- ◆ When the ambient temperature exceeds 40 ° C (104 ° F). Do not start to use
- ◆ Do not modify the fixture anyway, do not install non-original parts, not paste any filters on the lens or other optical accessories, pictures
- ◆ Do not attempt to short-circuit fuse or thermostat switch



### **Avoid falling damage**

- ◆ Don't operate alone when handling fixture A
- ◆ On the hanger to be used both uniform light hook, shall use a separate light hook
- ◆ When the clip the device to TRUSS rack or other vertical hanging bracket and is not, please change the lamp with butterfly buckle hook, hook may not use G-shaped lights and quickdraw lights and other lights hook attachment is not completely surround the lighthouse after the installation.
- ◆ Ensure support and hanging system can support more than 10 times the weight of the fixture.
- ◆ Enhance safety rope hanging lamps and the focal point of the lamps shall handle
- ◆ Install insurance rope, safety rope must be able to withstand 10 times the weight of the lamp
- ◆ Make sure the external accessories and fastening spreader complete
- ◆ Installation, maintenance, and mobile lighting should have a stable platform, which should have a security fence just below
- ◆ Related operations are not described in this article, please consult an authorized after-sales department

## INSTALLATION

### WARNING:



Install the safety hinge when hanging the fixture to avoid any mal-function of the clamp.

Safety hinge must be tied to the hole of the fixture. Can't tie to the handle.

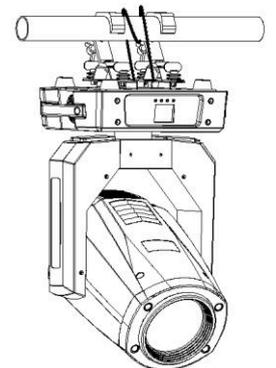
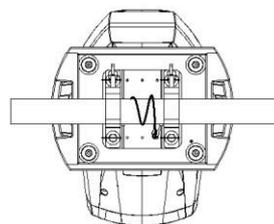
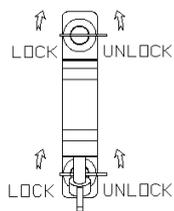
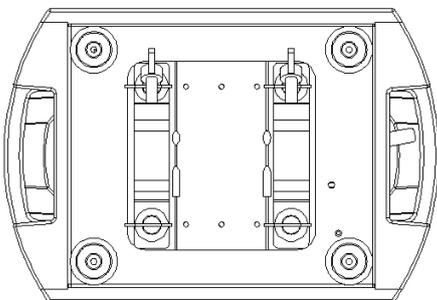
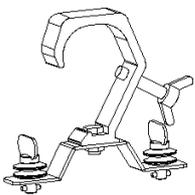
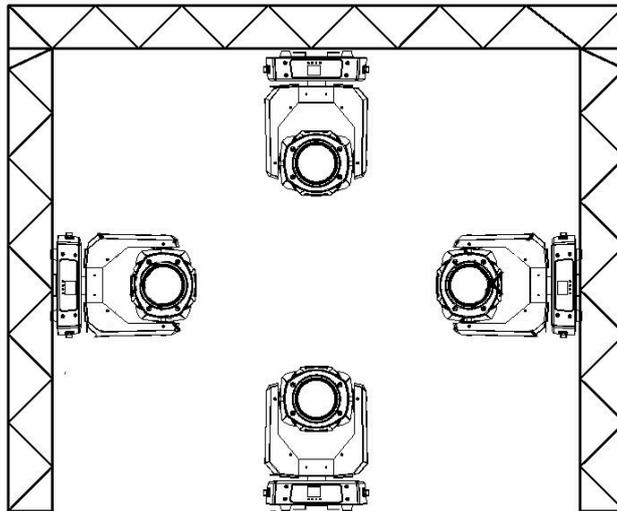
The moving of the head might make the base moving when the light is not properly placed.



Never turn on the fixture before making sure the fixture is properly placed or hanged.

Cover the lens or void sunlight shoot directly on the lens when it is moving in day time.

### Installation:



## 1. Hanging

1. OMEGA bracket lamp installed on the hook and tightens the screws
2. The OMEGA bracket to lamp base, clockwise tightening fast lock
3. Lamps on each side of a person lift the fixture, the lamp poles and locking snap hook
4. The insurance rope through the base hole, and tied to a pole

### Installation Notes:

1. Confirm hook hanging lamps and accessories undamaged and can withstand 10 times the total weight of the lamps and cables and accessories, etc.
2. Note that the lamp lighting the front direction of the bottom body portion of the base label
3. Installation, maintenance, and mobile lighting should have a stable platform, which should have a security fence just below.
4. The insurance rope through the rope hole lamp base, and tied to the lamp housing, shall not tied to the handle
5. Check the lamp housing do not have the range of combustible material within 0.2 meters, lamps light beam directed not to be blocked within 12 meters, and the neighborhood do not have flammable substances
6. Check the lamps are not likely to collide with each other at the time of exercise
7. Check other lamps are not directly irradiated on this fixture, a strong light can damage the protective shell lamps

Always make sure when you put the installation being installed in a horizontal plane, so as not to slip occurs when the shell running lamps

## Power Supply

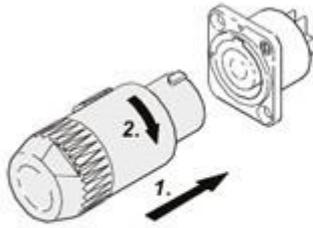
<b>WARNING:</b>	
	<b>To prevent electric shock, lamp must be grounded, the main power circuit breaker must have insurance and switches and ground fault protection</b>
	<b>Please fixtures directly connected to an AC power source, not connected to the silicon box to prevent damage to the lamp</b>

### Power Input

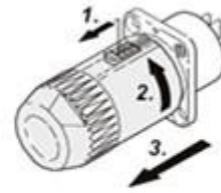
Lamps internal switching power supply with PFC power supply voltage AC100V-240V 50 / 60Hz

### Power Connection:

Plug the power cord has been installed a lighting power connector with mating plug the other end should install an appropriate power plug, three-pin plug with grounding. Must follow the manufacturer's instructions to install. The following table shows some plug pin connector recommendations. If you are unsure or have questions, please consult a qualified electrician. To power, the power switch should pull to the position "I".



plug the power cable



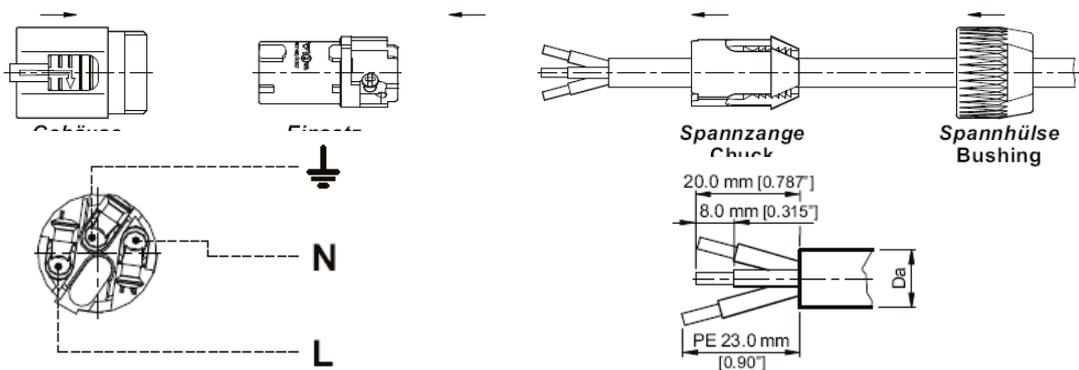
unplug the power cable

Cable color	Plug	Mark
Brown	Live Wire	L
Blue	Neutral Wire	N
Yellow/Green	Ground wire	



When the power cord is scratched lines skin, the outer protective skin breakage or length is too short and should be replaced

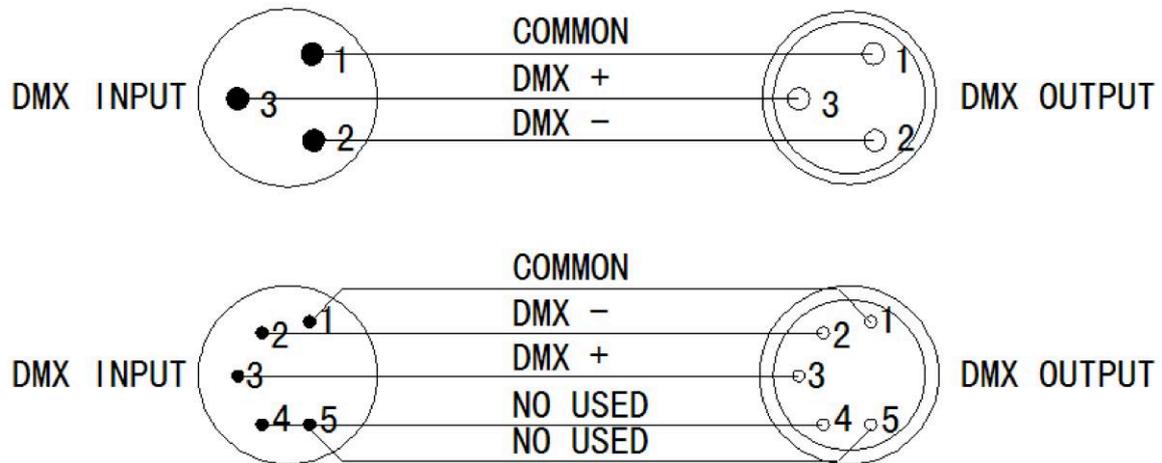
### Replace wire



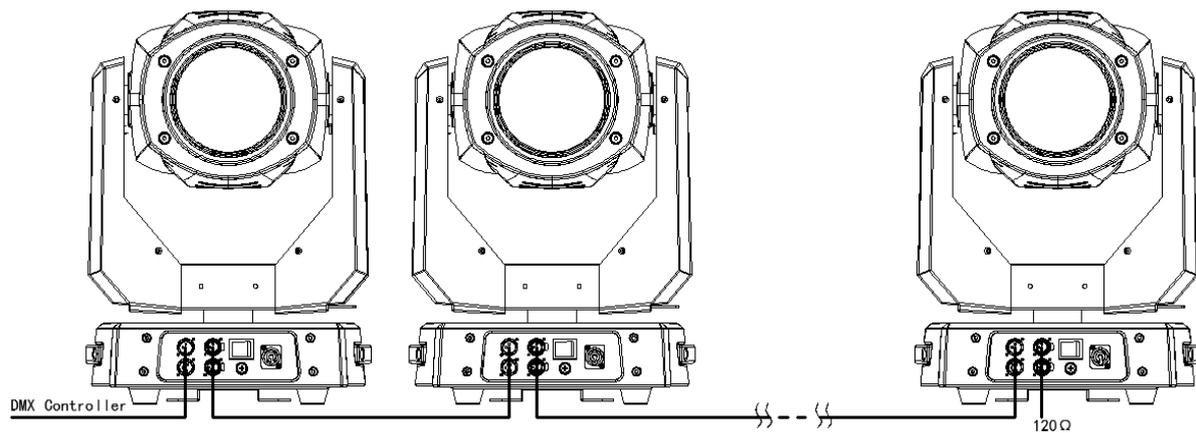
1. Remove the original power cord
2. Clipping about a 1 m long, 3\*1.5 square specifications for cable
3. The size of the cable by stripping the figure above, through the plug end caps and fasteners
4. The core plug in the correct position in pressing on L- Brown N- blue - yellow / green
5. The plug assembled and tighten the end cap
6. Connect the other end of the power cord right with grounded three-prong plug connector

## Signal Connection

Lighting by XLR plug XLR DMX input and output signals, defined as follow:



3 core and 5 core plug and socket adapter, 5-pin XLR pin 4 and Pin 5 is not used



## Data Connection:

- 1 Connect a DMX signal cable from the controller to the lighting signal input port
- 2 Connect a DMX signal cable from the lamp signal output port to the next fixture
- 3 fixtures DMX signal line only series, for use in parallel signal distributor
- 3 In the last fixture between the signal output 2 feet and 3 feet of a termination resistor connected across

### Reliability Tips

Use for RS-485 shielded twisted-pair design: standard microphone cable is not suitable for long-distance data transmission, cable transmission 24AGW the distance over 300 meters (1000 feet), while long-distance transmission lines to be thicker diameter cable, and preferably with a signal amplifier branching drive (signal in parallel) need to use signal splitter last fixture between the signal output terminal 2 feet and 3 feet spanning a 120 ohm quarter watt resistor, so to avoid interference signal reflection, empathy, such as the use of the dispenser, also need to take in their terminal on this resistance

## Fixture Setting:

### MENU:

Menu			
UP			
Down			
Enter	Address		
	Work Mode	DMX Ctrl	
		Auto Run	
		Sound Ctrl	
		Master-slave	On
			Off
		Light Switch	On
			Off
		Channel mode	Mode 1
			Mode2
	Display	Lanaguage	中文
			English
		Screen saver	Mode1
			Mode2
			Mode3
			Close
		Screen rotate	On
			Off
		Sensor Correction	Open
			Close
		Touch Enable	On
			Off
	Test Mode	01 Pan	
		02 Pan Fine	
		03 Tilt	
		04 Tilt Fine	
		05 PT Speed	
		06 Strobe	
		07 Dimmer	
		08 Color	
		09 Col Fine	
		10 Gobo	
		11 Rot Gobo	
12 Gobo R			

	13 Prism	
	14 Prism R	
	15 Frost	
	16 Zoom	
	17 Focus	
	18 Focus F	
	19 None	
	20 Reset	
Advanced	Pan Invert	On
		Off
	Tilt Invert	On
		Off
	P/T Rectify	On
		Off
	Pan Offset	
	Tilt Offset	
	Lamp when	Power on
	Data hold	On
		Off
	Factory Setting	
Status		
Escape		

## **Setting:**

Open fixture, press Menu enter into setting. Press Up&Down to select, press ENTER to enter into the selected item. Press ENTER to save after setting, press MENU to go back. Press ENTER to view the display when it is disconnected with power supply. Display will automatically close when setting is finished.

### **◆DMX ADDRESS**

DMX address, press up&down and select the number between 1-512, press ENTER to save. Press MENU to return to main menu.

### **◆SYSTEM SETTING**

#### **1: Channel Mode**

Standard mode: 20 channels

#### **2: Backlight Setting**

Set the back light to auto or all on. Display will flash when doesn't receive signal.  
Default setting is Auto.

#### **3: System reset** Manual reset part of full of fixture function

#### **4: Channel control** Manual control fixture function

### **◆AUTO TEST**

Fixture auto test built-in program

### **◆OPTIONS**

#### **1: Pan-Tilt Setting**

Set Pan invert, Tilt invert, Pan-Tilt channel swap, press ENTER to save every setting.

#### **3: Display setting**

Set the display Normal or Turnover, press ENTER to save.

### **◆LANGUAGE** Chinese & English, press ENTER to save.

## Channel List

CH1	X-axis	0-255	0-540
CH2	X-axis fine-tuning	0-255	
CH3	Y-axis	0-255	0-270°
CH4	Y-axis fine-tuning	0-255	0-1°
CH5	XY Speed	0-255	Fast to slow
CH6	Strobe	0-3	Open
		4-127	Slow to fast, pulse strobe
		128-191	Slow to fast, gradual strobe
		192-255	Slow to fast, random strobe
CH7	Dimming	0-255	0-100% dimming
CH8	Color	0-127	Linear color
		128-135	Color 1
		136-142	Color 2
		143-149	Color 3
		150-156	Color 4
		157-163	Color 5
		164-170	Color 6
		171-177	Color 7
		178-184	Color 8
		185-191	Color 9
		192-222	Rotating from fast to slow
		223-225	Stop
226-255	Reversal from slow to fast		
CH9	Color fine-tuning	0-255	
CH10	Fixed Gobo	0-9	White Light
		10-19	Gobo 1
		20-29	Gobo 2
		30-39	Gobo 3
		40-49	Gobo 4
		50-59	Gobo 5
		60-69	Gobo 6
		70-79	Gobo 7
		80-89	Gobo 8
		90-99	Gobo 9
		100-109	Slow to fast dither Gobo 1
		110-119	Slow to fast dither Gobo 2
		120-129	Slow to fast dither Gobo 3
		130-139	Slow to fast dither Gobo 4
		140-149	Slow to fast dither Gobo 5
		150-159	Slow to fast dither Gobo 6
160-169	Slow to fast dither Gobo 7		

		170-179	Slow to fast dither Gobo 8
		180-191	Slow to fast dither Gobo 9
		192-223	Rotating from fast to slow
		224-255	Reversal from slow to fast
CH11	Rotating Gobo	0-9	White Light
		10-19	Gobo 1
		20-29	Gobo 2
		30-39	Gobo 3
		40-49	Gobo 4
		50-59	Gobo 5
		60-69	Gobo 6
		70-79	Gobo 7
		80-89	Slow to fast dither Gobo 1
		90-99	Slow to fast dither Gobo 2
		100-109	Slow to fast dither Gobo 3
		110-119	Slow to fast dither Gobo 4
		120-129	Slow to fast dither Gobo 5
		130-139	Slow to fast dither Gobo 6
		140-149	Slow to fast dither Gobo 7
		150-200	Rotating from fast to slow
		201-255	Reversal from slow to fast
CH12	Gobo rotation	0-127	0-400°
		128-190	Rotating from fast to slow
		191-192	Stop
		193-255	Reversal from slow to fast
CH13	Prism	0-127	
		128-255	Insert prism
CH14	Prism rotation	0-127	0-400°
		128-187	Rotating from fast to slow
		188-195	Stop
		196-255	Reversal from slow to fast
CH15	Frost	0-127	
		128-255	Insert Frost
CH16	Enlarge	0-255	Enlarge
CH17	Zoom	0-255	Zooming from far to near
CH18	Zoom fine-tuning	0-255	
CH19	Empty	0-255	
CH20	Reset	0-239	
		240-255	Reset for more than 3 seconds

## Maintenance cleaning

Lamps need daily cleaning. Time factor depends on the environment and cleaning cycles related to the following:

- Used with smoking machine, frog machine
- High rate of local wind speed (eg: air inlet and outlet)
- Dust(Such as stage effect )
- If one or more of the above factors, the lamp after 100 hours of operation or need to check the cleaning, and then periodically checked

Contact technician if any repairs are not mentioned here.



### **WARNING:**

**Before opening the lamp housing, disconnect the AC power and allow the lamp to cool completely**

Be careful when cleaning optical components, and want a clean and bright place operations. Optical Coating fragile and easy to scratch the surface. You can not use solvents will damage plastic or colored surfaces.

To maintain proper cooling, it is necessary to periodically dust on the fan and vents

#### ➤ **Clean Optical parts**

1. Cut off power supply and cool the fixture completely. Open the cover shell
2. Clean the dust with air compressor.
3. With tissue paper stained glass cleaner or pure water, wipe out stubborn stains. But can not scrape the surface should be rubbed gently repeat. ◦
4. Cotton with alcohol to remove the soot debris. Also available glass cleaner, but use pure water to clean the residual. Slowly circle clean from the inside to the outside.
5. With a clean and soft cloth or air compressor to dry.

#### ➤ **Clean the fan and vents**

With a soft brush, cotton, vacuum cleaner or an air compressor, fan and vents to remove dust.