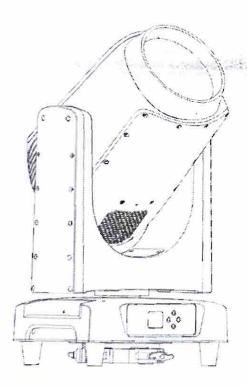


Laser Beam



Catalogue

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Thank you very much for purchasing this product. Before you use our product, please carefully read carefully and fully understand all the safety instructions recorded in this book to avoid the potential dangers that may cause bodily injury, property damage or damage to the product. The Company shall not be liable for any direct losses and associated losses caused by the failure to operate as instructed in the instructions.

SAFETY GUIDE



Please read the instruction manual carefully, which contains important information about installation, operation, maintenance, etc

This product is intended for professional use only and is prohibited for family use

Please keep this manual for future reference, if you sell the machine to another user, please ensure that the user also gets this manual.

- Open the package before use and carefully check if the machine is damaged during transportation.
- Non-professional operators are not allowed to install and operate the machine.
- Disconnect the external power supply when opening the housing or replacing the parts, or when the lamp is not in use.
- Ensure that the equipment is reliable and use the AC power supply matching the lamp voltage frequency with overload and grounding protection.
- Before use, ensure that the cable is in normal condition and suitable for the flow of the connected equipment.
- Avoid having the power cord going around with the surrounding cables.
- Ensure that the equipment is reliably grounded.
- If the power cable or plug is damaged, the lamp is wet or the power supply is obviously overheated, please disconnect the power supply immediately.
- Avoid any flammable liquid, water, or metal material from entering the machine. Once it happens, please cut off the power supply immediately.
- Do not look directly into the light port and the illuminated light source.
- Do not use damaged housing, light shield, lens, protective screen, or heat lamps.
- If the protective screen, lens or ultraviolet screen on the lamp produces visible damage, that is, the damage to the degree of failure, such as cracks or deep marks, should be replaced in time.
- Do not use when the ambient temperature exceeds 40°C.
- ◆ When the external temperature of the lamps during the use is 65°C, to avoid contact with the human body or other objects.
 Please cool the lamps fully before handling.
- Ensure that combustible materials (such as fabric, wood, paper, etc.) away from the lamps at least 0. 5 meters, flammable
 items as far as possible away from the equipment, ensure that the inlet and outlet at least 0. 5 meters of space
- Do not directly illuminate surfaces within 10 meters.
- During the day, cover the lens or turn the lens direction to prevent direct sunlight from reaching the lens, as it can focus on the sun and create a potential fire hazard.
- In any case, do not modify the lamp, do not install non-original parts, do not paste any filter paper on the lens or other
 optical accessories.
- Disconnect the power supply before maintaining the clean lamps.
- Do not attempt to short circuit the fuse or the temperature control switch.
- Do not carry the lamps and lanterns alone when working at a height.
- Use two evenly distributed lamp hooks on the hanger, and do not use a single lamp hook.
- Ensure that the support and hanging system can support more than 10 times the weight of the lamp.
- When used, a safety rope must be installed, which must be able to withstand 10 times the weight of the lamp.
- Ensure that the external fittings and hangings are fully fastened.
- For installation, maintenance and moving lamps, stable platform shall be provided with safety fence.
- For related operations not described in this article, please consult the Authorized after-sales department.

Specification parameters

Voltage: AC100-240V 50 / 60Hz

Maximum power: 400W

Light source: a 300W white laser light source

Light source life: 12,000 hours

Control: 14 / 16 channel, DMX512, RDM.

Color: one color plate, 14 colors + white light, half-color and two-way color rainbow

effect

Pattern: a fixed pattern plate, 19 kinds of patterns + white light, running water, jitter

effect

Prism: 8 prism + 24 prism: can be two-way rotation, can switch independently, can

stack

Optics: high-precision glass optical lens, optical diameter of 165mm, electric focus

Effect: nebulization effect

Movement: horizontal 540 degrees, 8 / 16 Bit resolution, 360 degrees infinite rotation

252 degrees vertical, 8 / 16 Bit resolution

Vertical magnetic encoder; three-phase stepper motor

Display: 1.7-inch display screen, touch button, Chinese and English interface.

Software upgrade: Software can be updated through a DMX connection

Waterproof power supply connector input / output

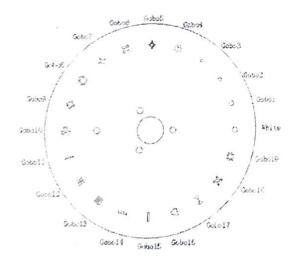
Three-core / five-core waterproof Canon head socket

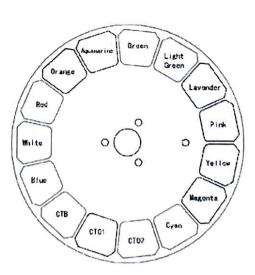
Fold hook is free

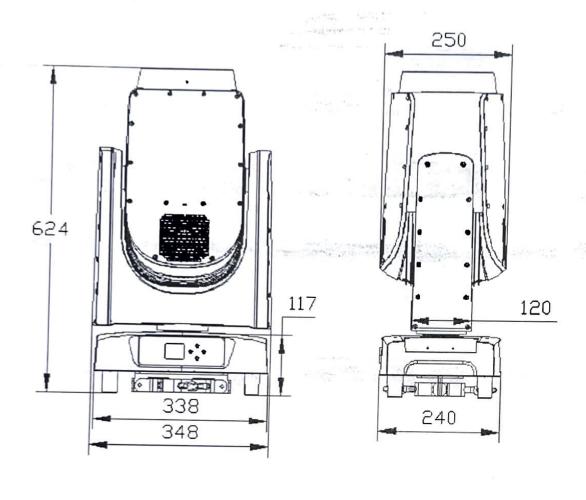
Protection level: IP66

Dimensions: 348 * 250 * 624mm

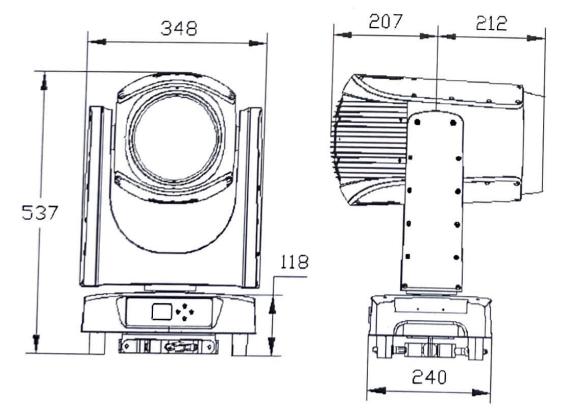
Net weight: 21.6Kg







Service -



INSTALL

Δ

WARMING:

When hanging lamps, additional safety rope must be installed to prevent the failure of lamp hook,

The safety rope must be attached to the mounting position of the safety rope, and must not be installed on the handling handle

When the lamp is not placed steadily, the movement of the lamp head may drive the movement of the base,

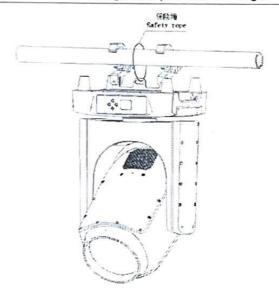
Therefore, do not start the lamp without confirming the stable placement or hanging of the lamp.



Do not hang the side installation and use of lamps!

Cover the lens or turn the direction to avoid direct sunlight into the lens,

Because the camera can focus on sunlight as a potential fire danger.



Installation considerations:

- Confirm that the hanging lamp hook and accessories are not damaged and can withstand 10 times the total
 weight of the lamps, cables and accessories,
- 2. For installation, maintenance and moving lamps, stable platform shall be provided with safety fence
- 3. Tie the safety rope through the hole in the lamp base to the lamp holder, not to the handle
- Check that there is no combustible material within 0. 5 meters of the lamp shell, do not be blocked within 10
 meters of the lamp column directly, and no flammable substances nearby
- 5. Check that the lights are not possible to collide with each other during movement
- 6. Check that the other lamp has not directly illuminate on the lamp, the strong light will damage the protective shell of the lamp
- 7. Make sure that the installation surface is horizontal, so as to avoid sliding when the lamp is running

warn:

To prevent electric shock, the lamp must be grounded, and the main power supply must be safe and disconnected

Switch and ground protection

Carrie

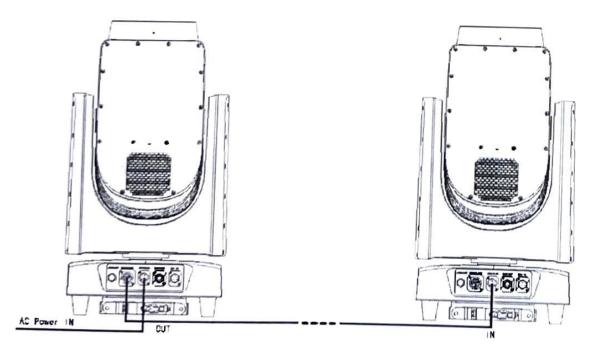
Please connect the lamp directly to AC power supply, not the silicon box to avoid damage

lamps and lanterns

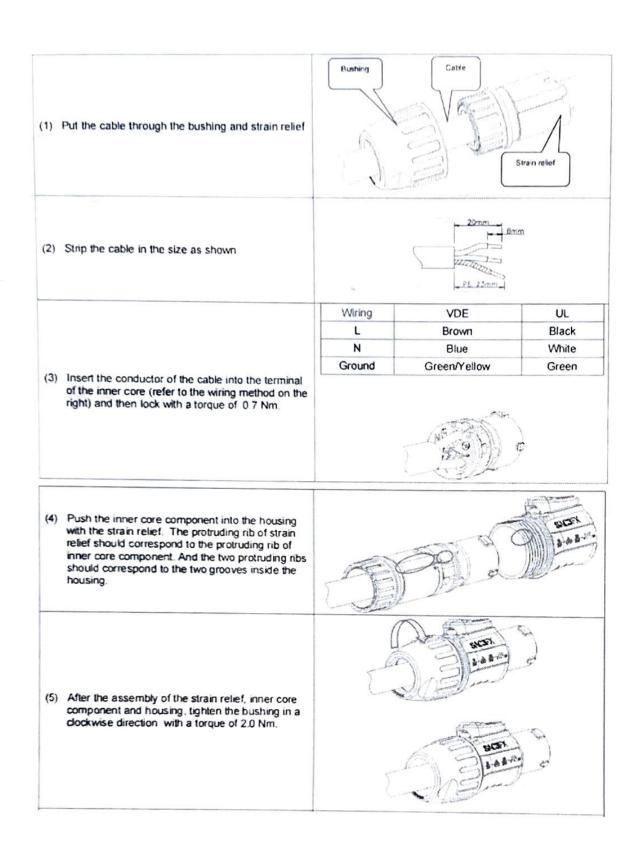
When the power supply of the lamps is connected in series, the maximum current of the power supply seat shall not be greater than 1 6 A

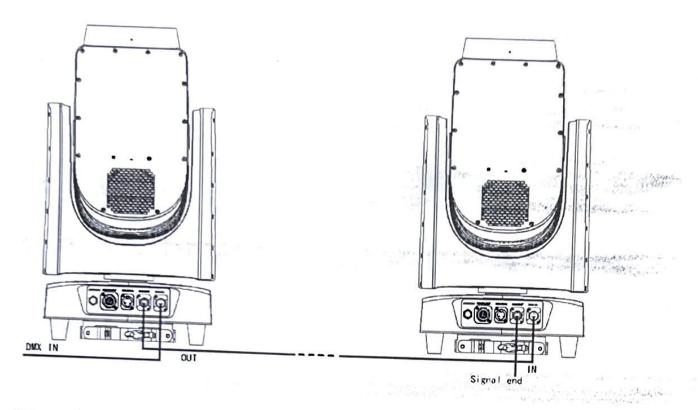
Power connection

A plug matching with the lamp power interface has been installed on one end of the power cord, and a suitable power plug with grounding shall be installed on the other end. Installation must follow the manufacturers instructions. The table below gives some tips for plug and pin connections. If not sure or questionable, consult a qualified electrician.



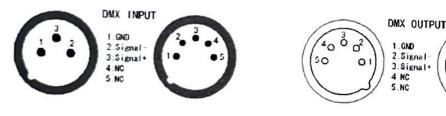
AC100V The power cord can connect up to 4 lamps in series AC220V The power cord can connect up to 8 lamps in series





Signal connection

DMX signal via XLR Cannon insert, defined as follows:

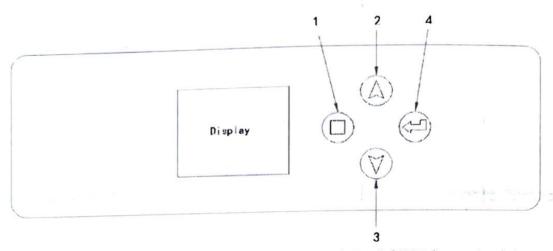


- 1. Connect a DMX signal line from the controller to the lamp signal input port
- 2. Connect one DMX signal line to the next lamp from the lamp signal output port
- 3. The DMX signal line can only be connected in series. In parallel, please use the signal distributor
- 3. Interspan a terminal resistance between the 2 and 3 feet of the last lamp signal output

Reliability tips

- Using a shielded twisted pair designed for RS-485, the connection distance of the signal is generally 150 meters, and a signal amplifier is used for long-distance transmission
- Branch driver (signal in parallel) requires a signal distributor
- A 120 ohm 1 / 4 watt resistance is crossed between the 2 and 3 feet of the last lamp signal output to avoid signal reflection interference, so that the resistance should be connected to the respective terminals

Lighting setting



- 1--MENU (menu key) 2--UP (upper key) 3--DOWN (lower key) 4--ENTER (confirmation key)
- Key lock: touch the menu button and confirmation button in 3 seconds

Menu structure

DMX地址			
DMX Addr	红色背景时地址码加减1,黑色背景时地址码按通道模式加减		
通道模式	16		
Channel Mode	14		
	DMX	I TO THE STATE OF	
\- \(\t - \t + \t - \t \)	用户		
运行模式	User		
Run Mode	自走		
	Auto		(hing in
		否	
	锁定手控	No	
	Lock Manual Ctrl	是	
		Yes	
	X轴		
	Pan		
手控	Y轴		
Manual	Tilt		
	X轴旋转		
	Pan Rot		
	颜色		
	Color		
	频闪		
	Strobe		

	调光			
	Dimmer			
	固图 Gobo	The second second	AL NO.	
	棱镜			
	Prism			
	棱镜自转 Prior Pri			
1 1	Prism Rot		2. UT-2882	Commercial
	雾化		4	
	Frost			
Land Control	调焦			No. 10 NOW NOW THE
	Focus	instant All .	25-1875 - An - 1875	A Company of the Comp
	整机复位			
67 (A)	Reset All			
复位	XY轴			
Reset	Pan Tilt			
	头部复位		Heigh	
	Head Reset			
		从机		
	主从模式 M/S Mode	Slave		
		主机		
		Master		
		v41 4	否	
		X轴反向	No	
	VV/+1 '/1 BB	Pan Reverse	是	
	XY轴设置		Yes	
	Pan/Tilt Settings	V44 F 4	否	
		Y轴反向	No	
		Tilt Reverse	是 	
运行设置		AD Att	Yes	
Run Settings		线性 Linear		F3
Kun Settings				
		对数		
	44 th 北田;	Log		
	调光曲线 Dim Curve	S曲线		
	Dim curve	S-Curve		
		开方		
		Square Root		
		平方		
		Square		
	LED模式	标准 Standard		
	LED Mode	高亮		
	LLD MODE	High Light		
		HIPH LIGHT		

	静音 Silent		
自编程 User Program		步数01 Step01 · · · · · · · · · · · · · · · · · · ·	通道03 Chn03 通道04 Chn04 通道05 Chn05 通道06 Chn06 通道07 Chn07 通道08 Chn08
	录制DMX Record	选择步数 Select Step 时间 Time	01012
	全部清零 Clear	Record 密码 Input PSW	
无信号时 If No DMX	开机时 Power On	居中 Middle 无效果	

		Control of the least of the lea	No Effect	
			- 用户	
			User	100
			自走	Carlo Adversary
			Auto	44301.4
			保持	
		170	Keep	11 11 11 11 11 11 11 11 11 11 11 11 11
		运行时	闭关	e denouares
		Run Time	Shutter	7 Sayout Say 10
			Off	
(E) 2/2-0	偏移量	密码		Jan
	Adj Offset	Input PSW	000	Office of the second
			30秒	
			30Sec	
			2分钟	
		休眠	2min	
		Sleep	10分钟	
			10min	
			无	
	显示屏		No	
	LCD Display		否	
		翻转 Flip	No	
高级设置			是	
Advanced			Yes	
Settings		自动锁屏 Auto Lock	是	
Beccings			Yes	
			否	
			No	
		码盘波形	否	
	忽略错误	Raster	No	
	Ignore Err	Waveform	是	
	- 一八里	密码	Yes	
	工厂设置	16-3/41 - 3		
	Factory Setting	Input PSW 密码		
	微调恢复 Adj Recover	五吗 Input PSW		
	恢复出厂设置	密码	(A)	
	Restore Defaults	Input PSW	221	
	光源使用时间	input 10"		
	Lamp Hours			
设备信息	设备使用时间			
Device Info	Fixture Hours			
20.100 11110	光源时间清零	密码		
	,	Input PSW		

	头部风机01			
	Head Fanl			
	头部风机02			
	Head Fan2			
	头部风机03			11.7
	Head Fan3			=
	激光温度			
	Laser Temp	The state of the s	1	
	色轮温度	a.		
	Color Wheel Temp			140
	DMX值			
	DMX Value	Mark to the second	<u>i</u>	200
	错误			Strong of Tolk Strong
	Error			
		加热棒 Heating Rod	关	i mer
			0ff	
			开	
			0n	THE TOTAL STATE
			风机01	
			Fan01	0-101%
			风机02	
	测试模式		Fan02	0-101%
	Test Mode		风机03	
		风机测试	Fan03	0-101%
	<u>.</u>	Fan Test	风机04	1 (5 m)
			Fan04	0-101%
-			风机05	
			Fan05	0-101%
		Ī	风机06	
-			Fan06	0-101%
语言 (Lang)	中文			
44	English			

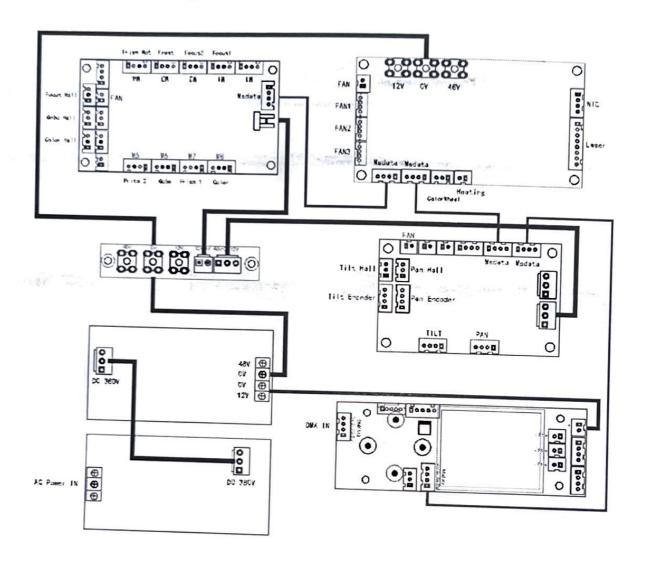
Channel data

14CH	16CH	FUNCTION	VALUE	The second secon
			0-4	WHITE
		58	WHITE+RED	
			9-12	RED A SEPTEMBER OF STATES
			13-17	RED+ORANGE
			18-21	ORANGE
			2225	ORANGE+AQUAMARINE
			2629	AQUAMARINE
			30-34	AQUAMARINE+GREEN
			35-38	GREEN
			39-42	GREEN+LIGHT GREEN
			4346	LIGHT GREEN
			4751	LIGHT GREEN+LAVENDER
			5255	LAVENDER
			5659	LAVENDER+PINK
			6063	PINK
1	1	颜色	6468	PINK+YELLOW
		Color	69-72	YELLOW
			7376	YELLOW+MAGENTA
			77—81	MAGENTA
			8285	MAGENTA+CYAN
			8689	CYAN
			9093	CYAN+CTO 260
			9498	CTO 260
			99-102	CTO 260+CTO 190
			103-106	CTO 190
			107—110	CTO 190+CTB 8000
			111-115	CTB 8000
			116-119	CTB 8000+BLUE
			120-123	BLUE
			124-127	BLUE+WHITE
154	~	128-255	ROTATION SLOW-FAST	
			03	CLOSED
			4103	STROBE SLOWFAST
2 2	频闪 Strobe	104107	OPEN	
		108207	PULSATION SLOWFAST	
		208212	OPEN	
			213251	RANDOM STROBE
			252255	OPEN
3	3	调光 Dimmer	0255	DIMMER 0100%
4	4	图案	0-3	OPEN

		Gobo	47	GOBO1
			811	GOBO2
			12-15	GOBO3
			16—19	GOBO4
			2023	GOBO5
			2427	GOBO6
			2831	GOBO7
			32-35	GOBO8
		w.	36-39	GOBO9
			4043	GOBO10
			4447	G0B011
			4851	G0B012
			5255	GOBO13
			5659	G0B014
			60—63	G0B015
			6467	G0B016
			68-71	G0B017
		· · · · · · · · · · · · · · · · · · ·		G0B018
			76—79	G0B019
			80117	ROTATION FASTSLOW
			118-121	STOP
		91	122—159	ROTATION SLOWFAST
			160—165	GOBO2 SHAKE
			166-171	GOBO3 SHAKE
			172-177	GOBO4 SHAKE
			178—183	GOBO5 SHAKE
			184—189	GOBO6 SHAKE
			190—195	GOBO7 SHAKE
			196-201	GOBO9 SHAKE
			202-207	GOBO10 SHAKE
			208-213	GOBO11 SHAKE
			214219	GOBO12 SHAKE
			220225	GOBO13 SHAKE
			226-231	GOBO15 SHAKE
			232237	GOBO16 SHAKE
			238243	GOBO17 SHAKE
			244249	
			250255	GOBOLO GUARA
			0-63	GOBO19 SHAKE
			64—127	OPEN
_		棱镜	128—191	PRISM1
5	5	Prism	120-191	PRISM2
		TIISM	192255	PRISM1+PRISM2

			0-63	POSITION INDEX
		64-127	CCW FASTSLOW	
	4±+4++++	128-191	CW SLOWFAST	
6	6	棱镜旋转	192-207	ROTATE BACK AND FORTH 90 °, SLOWFAST
		Prism Rot	208223	ROTATE BACK AND FORTH 180°, SLOWFAST
			224239	ROTATE BACK AND FORTH 270°, SLOWFAST
			240255	ROTATE BACK AND FORTH 360°, SLOW-FAST
			0-15	UNUSED RANGE
		130	16-55	PRISM 1 FREE SWITCHING, SLOWFAST
			56-95	PRISM 2 FREE SWITCHING, SLOWFAST
			96135	PRISM 1 AND 2 FREE SWITCHING, SLOWFAST
	7	棱镜宏 Prism Macro	136—175	PRISM 1 SELECTION, PRISM 2 FREE SWITCHING, SLOWFAST
		Trism macro	176—215	PRISM 2 SELECTION, PRISM 1 FREE SWITCHING, SLOWFAST
			216255	PRISM 1 AND PRISM 2 SWITCH TO EACH OTHER, SLOWFAST
_	0	雾化	0-127	OPEN
7	8	Frost	128-255	FROST INSERTED
8	9	调焦 Focus	0-255	FARNEAR
9	10	水平 Pan	0—255	PAN MOVEMENT
10	11	水平微调 Pan Fine	0255	PAN MOVEMENT FINE
11	12	垂直 Tilt	0-255	TILT MOVEMENT
12	13	垂直微调 Tilt Fine	0—255	TILT MOVEMENT FINE
			0-127	UNUSED RANGE
		水平旋转 Pan Rot	128—189	CCW FASTSLOW
13	14		190-193	STOP
			194—255	CW SLOWFAST
		复位	0—25	UNUSED RANGE
			2676	EFFECT RESET
14 15	Reset	77—127	P/T RESET	
			128-255	RESET ALL
			050	UNUSED RANGE
		1-4-4H-4	51—100	Silent, Stop for 3 seconds and enable
	16	运行模式 Run Mode	101-150	Standard, Stop for 3 seconds and enable
			151-200	High Light, Stop for 3 seconds and enable
			201255	UNUSED RANGE

Control line diagram



MAINTIAN

Lamps require daily cleaning. The time depends on the following factors related to the use environment and the cleaning cycle:

- Use a smoke machine, a fog machine
- High wind speed (e. g. inlet and outlet)
- Dust (e. g. stage effects, the structure of the building, and occasions required to simulate the natural outdoor environment)
- If one or more factors exist, check whether the lamp is cleaned after 100 hours of operation and check it periodically

All repairs not mentioned here shall be consulted by the technician.



WARN:

Disconnect the AC power supply before opening the lamp housing and cool the lamp completely

- Be careful when cleaning the optical components, and work in a clean and bright place. Optical coated surfaces are fragile and easy to wipe flowers. Do not use solvents that can damage the plastic or colored surfaces.
- . To maintain proper cooling, the fans and vents must be removed periodically
- Clean optical parts
- 1. Cut off the power supply and cool the lamp completely. Open the lamp enclosure.
- 2. Spray the air compressor.
- 3. Touch cotton paper with glass cleaner or pure water on cotton paper to wipe away stubborn stains. But can not wipe the surface, should gently repeat wipe.
- 4. Remove lampblack debris with alcohol cotton cloth. Glass cleaners can also be used, but use pure water to clean up the residue. Slowly clean from inside to outside.
- 5. Blow it dry with a clean and soft cloth or an air compressor.
- · Clean the fan and air vents
- Use soft brushes, cotton cloth, vacuum cleaner or air compressor to remove dust from fans and vents.