GRACE LITES CORPORATION GRACE LITES CORPORATION GRACE GREET CORPORATION TO SELITES CORPORATION TO S GRACE LITES CORP GRACE LITES CORPORATION" GRACE LITES CORPORATION WWW.GUTES.COM GRACE LITES CORPORATION GRACE GRACE LITES CORPOR ઌૢૺઌૢૺઌ૽ૺૢ૽ઌ૽ૢ૽ૢઌૢ૽ઌ૽ઌ૽ૢઌ૽ૺૢઌ૽ૺૢ૾ઌ૽૽ GRACE LITES CORPORATION GRACE LITES CO GRACE LITES CORPORATION GRACE LITES CORPORATION GRACELI GRACE LITES CORPORATION GRACE LITES CORPOR GRACELITES CORPORATION GRACELITES CORPORATION GRACE LITES CORPORATION GRACE LITES CORPORATION 180X3W (RGB) TES CORPORATION GRACE LITES CORPORATION



## 1. GENERAL INFORMATION

*INTRODUCTION:* Congratulations, you have just purchased one of the most innovative and reliable LED fixtures on the market today. Our company has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

**Notice:** As part of our ongoing commitment to continuous products update, company will keep the right to improve this products, the information in this menu may be changed in the future, the company reserve the right to change the data without any advises.

UNPACKING: Thank you for purchasing our company products. Every product has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for damage and be sure all accessories necessary to operate the fixture have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Inside the box you should find: the fixture, a DMX XLR cable, a power cable, and this user manual.

Please do not discard the shipping carton in the trash. Please recycle whenever possible.



## 2. SAFETY INSTRUCTIONS

**Notice:** To guarantee proper and consistent operation, it is important to follow the guidelines in this manual. Our company will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

- 1. In order to ensure the light could operate normally, the ambient temperature couldn't be higher than 35°C.and no lower than 2°C.
- 2. Under normal condition, the highest sectional surface temperature may be up to 50°C.
- 3. These projectors are designed depends on the electric shock protection, the projector should be connected with the power supply system which connected ground enough. The projector's ground cable should be connected with the ground cable of the power supply system as well. The ground mark of the light metal cover should be connecting with the installation bricked steadily.
- **4.** Connecting the main power supply should be done by the professional person.
- **5.** Please check the voltage, frequency data of power supply system is suitable for the mentioned on the projector. Please do avoid the different voltage between them and burn the projector.
- **6.** Do not attempt to operate this fixture if the power cord has become damaged or frayed.
- 7. Never open this fixture while in use.
- 8. Never look directly into the light source. You risk injury to your retina, which may induce blindness.
- **9.** Please be aware that damages caused by modifications to the device are not subject to warranty.



## 3. PERFORMANCE TRAIT AND SKILL SPECIFICATIONS

- Lighting equipment use the LED illuminant with high performance and super luminance.
- High performance and energy saving permanent current LED driving circuit and software control system, with perfect dimmer color system and splendid performing function.
- The fixture's out shape adopt pressed construction design and strong wind refrigeration system which be know as a good cooling system.
- High precision temperature monitor function: monitoring the phosphor board and PCB board simultaneously.
- Wind speed automatic adjustment: The fixture can control the wind speed according to the temperature and inner intelligent setting function.
- Default scene after power: the fixture can automatically adjust the default scene after power according to the inner setting.
- Automatic run function: Support 4 automatic run procedures, support the Menu and controller scene edit function. The most can be 100 scenes.
- Automatic distinguish function: It support DMX control signal priority.
   Regardless of any state, the fixture will automatically switch to the DMX controlled state once receiving DMX signal, if no DMX signal, the fixture can automatically switch to the DMX signal control, black scene, the default scene and automatic run procedures state according to its inner setting.
- Address code function: Each fixture can set IP address separately, the most can be setting 64 IP (0 is a common IP and is available for all the IP.). That means the biggest IP range is 512\*64.
- Application places: suitable for the building wall, square, Bridges, large specific landscape lighting forest scenic spots.
- Projection distance 10-40 meters best effect.

Voltage: AC100-240V/50-60Hz

LED QTY: 24R + 24G + 36B + 36W + 60A

LED power: 3W



Power: 454W

Body size: 523 x 418 x 513(mm)
 Carton size: 605 x 370 x 670 (mm)

N.W.: 21.8kg
G.W.: 24.8kg
Lens angle: 45°

DMX channel support three channels mode.

Standard DMX-512.

• Color mixing: unlimited color mixing system

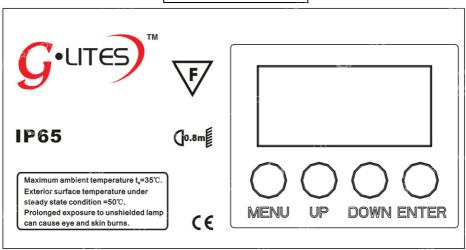
• Dimmer: continuous dimming 0~100%.

Shutter: electronic shutter 0~18 fps.

• LED life: 100,000 hours rated life.

• Single carton size: 260 x 260 x 450 (mm)

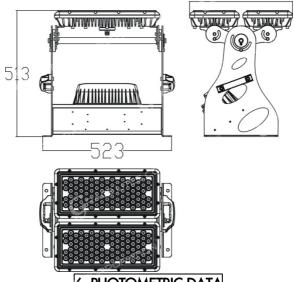
## 4. OPERATION PANEL





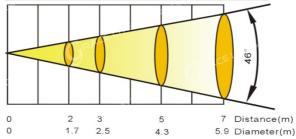
## 5. DIMENSIONAL DRAWINGS





## 6. PHOTOMETRIC DATA

R	938	560	285	80 LUX
G	1350	780	290	150 LUX
В	2810	1640	670	360 LUX
W	2450	1410	560	330 LUX
Α	1610	910	360	170 LUX
RGB	5100	2900	1170	640 LUX
RGBW	4770	4240	1720	930 LUX
ALL	9150	5190	1980	1180LUX





## 7. MOUNTING AND INSTALLATION

### Cautions:

For added protection mount the fixtures in areas outside walking paths, seating areas, and away from areas were unauthorized personnel might reach the fixture. Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight. Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable. To avoid injury, never stand directly below the device when mounting, removing, or servicing the fixture.

## Mounting points:

Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury. Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.



### CAUTION!

Be sure a qualified electrician performs all electrical connections.

## Mounting

Our company is fully operational in any mounting position, hanging upside-down, side mounted, or set on a flat level surface, etc. Be sure this fixture is kept at least 0.5m (about 1.6feet) away from any flammable materials (decoration etc.).

## 8. POWER SUPPLY AND SIGNAL CONNECTION

## 1. Power supply

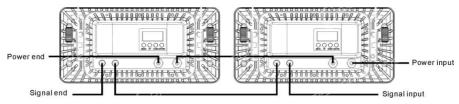
Use the professional plug to connect the projector and main power supply. Please pay attention to the voltage, frequency the same as the mentioned on the projector. Suggest each light has separately switched of the power supply so that



could turn on or turn off each projector desultorily.

## 2. Signal connection

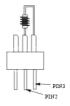
Please use the round 3-pin XLR plugs & sockets offered by menu facture to connect the first projector's output to the second projector' input and connect the second projector's output to the third device's input. And in the same way for the rest, eventually connect the last device's output, all the devices are together as the following figure.



The devices' control signal output or input by using the 3-pin XLR plug and socket. If need to long then the communication cable, please make sure the both side of 3-pin plug is one to one (one to one, two to two, three to three). Otherwise, the communication cable will be interrupted. The communicate cable is 2-pin shielded cable  $75\Omega$ 

Resistance with each core is at least a 0.5mm diameter. (Caution: All the inside leading wire of 3-pin XLR plug couldn't touch each other or plinth).

Recommend to use the DMX signal terminator for the installation to avoid the electronic noise damage the digital control signal. Simply speaking, DMX terminator is an XLR connector with a  $120\Omega~1/2w$  resistor connected across pin 2 and 3 which is then plugged into the output socket on the last projector in the chain. Refer to the connection as above: (Picture). We suggest using the DMX signal distributor when the distance of the lights over 15meter, in case of effect the light communication because of the signal feeble.





## 3. Light power connection:

After doing the above operation and making sure all the devices had been installed with natural operate, press the power switch to check whether everything is working normally.

## 9. DISPLAY MENU

Power, press the ENTER button to enter the menu settings:

**ESC:** Exit Button; **UP:** Page up or increase;

DOWN: Page down or reduce: ENTER: OK button

Main			. 0. 1				F .:	
Menu	J	Menu	J	Menu	Menu	Menu	Function	
				A.001				
		ADDR	$\rightarrow$	$\downarrow$	Adjusting DMX addressing data			
				A.512				
				HOLD	•		er the last state to	
					maintain c			
				BLK	DMX signo	ıl is off ,LE	D turn off all light	
				D.SCN	•		insferred to the	
				D.5CI 4	default scene			
				SCN.1	DMX signal is off, transferred to			
DMX.S	$\rightarrow$	DMX.F	$\rightarrow$	3CIN.1	user-define	ed scene 1		
				SCN.2	DMX signal is off, transferred to			
				3CI 4.2	user-defined scene 2			
				SCN.3	DMX signal is off, transferred to			
				5014.5	user-define	ed scene 3		
				SCN.4	DMX signo	ıl is off, tro	insferred to	
				JC14.4	user-define	ed scene 4		
				14CH 14-channel mode				
		MODE	$\rightarrow$	10CH	10-channe			
				09CH 9-channel mode				
A A -		Т		TI	т	II	17	



								I
				R.000			nnel values	
				G.000			nannel values	
				B.000			innel values	
				W.000	The	white ch	annel values	
				A.000	The	amber c	hannel values	
				F.000	Sof	speed cl	hannel values	
				C.000	Cho	nnel valu	ue of the macro	
				C.000	fund	ction		Press
				D.000	Dim	mer chai	nnel values	ENTER
		LIST		S.000	shu	tter chani	nel values	button
DMX.S	$\rightarrow$	LIJI	ĺ	000	The	second s	shutter : slake hold	to editing
					time	e channel	values	status
				/.000	The	The second shutter: off to light		
				7.000	by t	he time c	channel values	
				000	The second shutter: Brightness			
				.000			annel values	
				\.000	The	second s	shutter: light to off	
					•		channel values	
				1.000	Sele	ect chann	el sub-code	
				ST.00	Sav	e the cur	rent channel data to	the
		EDT.S	$\rightarrow$	$\downarrow$	scer		rem enamer data to	IIIC
		200		ST.99	3001		<u> </u>	
				T.HRS	$\rightarrow$	0000	Device power on to	otal
		P.TIM		1.1110		0000	time(unit: hours)	
		1.1111	ĺ	R.HRS	$\rightarrow$	0000	Reset after power of	on
INFO	$\rightarrow$			IX.I IIXO	,		time(unit: hours)	
				T.TMS	$\rightarrow$	0000	The total number o	f device
		P.TMS	$\rightarrow$	1.1/10	.1M3 →		power on	
				R.TMS	$\rightarrow$	0000	Reset after power of	on



			number

Mair		I		II		III		V		
Meni		Menu	J	Menu		Men	J	Menu	Function	
		L.TIM		T.HRS → 0000 LED lig					diation board	
		L. H/M	$\rightarrow$	R.HRS	$\rightarrow$	0000		Reset after LED light time(unit: hours)		
				CUR.T	$\rightarrow$	000C		tempera	iture of the er board	
		TEM1	$\rightarrow$	MAX.T	$\rightarrow$	000C	Driv		temperature	
INFO	$\rightarrow$			MAX.R	$\rightarrow$	000C		et the mo perature	aximum	
				CUR.T	$\rightarrow$	000C		The temperature of the current radiation board		
		TEM2	$\rightarrow$	MAX.T	$\rightarrow$	000C		Radiation board temperature record		
				MAX.R	$\rightarrow$	000C	Reset the maximum temperature			
		VERS	$\rightarrow$	MCU.V	$\rightarrow$	V*.**		U softwa nber	re version	
		OPEN	Disp	olay board	Ofter	bright				
		OPN.D	Full-screen flicker when DMX is off , often bright when has DMX						oright when	
DISP	$\rightarrow$	CLOS	Disp	olay board	often	off			. (10	
		SHU.D	Full-screen flicker when DMX is off often off when						ff when has	
		CLS.D	ofte	n bright(.) v	vhen	DMX is o	ff ,flic	ker(.) wł	nen has DMX	



Mair	1	I		II		III		V	Function
Menu	J	Menu	Menu Men			Menu		Menu	
		L.DEF	$\rightarrow$	0000		Password	"111	1″	Scene data reset
			$\rightarrow$	D.SCN	$\rightarrow$	ST.00	scer	ect the ne after nal is off	default the r the DMX
						STA.S	$\rightarrow$	ST.00	Start program step
			<b>→</b>	SCN.1		END.S	$\rightarrow$	ST.00	End of the program step
AUTO	$\rightarrow$	EDIT		JCIN.1		SPED	$\rightarrow$	000P	Program speed (time = parameter value *0.1S)
						STA.S	$\rightarrow$	ST.00	Start program step
			$\rightarrow$	SCN.2	$\rightarrow$	END.S	$\rightarrow$	ST.00	End of the program step
						SPED	$\rightarrow$	000P	Program speed (time = parameter



			value *0.1S)

Main		I		II		III		V	Function
Menu		Menu		Menu		Menu		Menu	Toricion
									Start
						STA.S	$\rightarrow$	ST.00	program
									step
									End of the
						END.S	$\rightarrow$	ST.00	program
			$\rightarrow$	SCN.3	$\rightarrow$				step
									Program
									speed (time
						SPED	$\rightarrow$	000P	= parameter
AUTO	$\rightarrow$	EDIT							value
7.010	,	LDII							*0.1S)
									Start
						STA.S	$\rightarrow$	ST.00	program
									step
									End of the
			$\rightarrow$	SCN.4	$\rightarrow$	END.S	$\rightarrow$	ST.00	program
									step
									Program
						SPED	$\rightarrow$	000P	speed (time
									= parameter



							value *0.1S)
	CLID		ID.00	Slave c	ode set	ID	
	SL.ID	$\rightarrow$	↓ ID.64				

Main		I		II		III		V	Function
Menu		Menu		Menu		Menu		Menu	Function
		FADE	$\rightarrow$	F.100 Soft parameters from fast to slow set (default is 100)					slow set
		FANS	,	AUTO	Αυ	tomatic fan	spee	d control	operation
PERS		FAINS	$\rightarrow$	MAX Maximum wind speed fan operation				peration	
FLRS		OSC.C	0000		$\rightarrow$	S000	Send crystal calibration signal		calibration
		030.0	$\rightarrow$	→ CALI → C000				eption cr	·
REST	$\rightarrow$	ENT	Dri	iver reset	equi	valent to re-	pow	er)	
LOAD	$\rightarrow$	0000		Passwo	rd "1	111″			actory while device



### Status menu:

NO.	Status Information	Explain
1	A001-A512	DMX addressing data
2	SLAV	Sub-light status
3	ST.00-ST.99	State of the main light self-propelled

## Information menu:

NO.	Information	Explain
1	NO.ER	No error
2	ERR.T	Temperature error
3	ERR.D	DMX signal line error
4	ERR.M	Memory data error

# 10. DMX TRAITS

function	DMX values and effect	Remarks		
	ana errecr			
RED	0-255	From dark to light dimming, color macro		
KLD	0 233	function in adjustment phase		
GREEN	0-255	From dark to light dimming, color macro		
GKLLIN	0-233	function in adjustment phase		
BLUE	0-255	From dark to light dimming, color macro		
DLUE	0-255	function in adjustment phase		
WHITE	0-255	From dark to light dimming, color macro		
VVIIIE	0-255	function in adjustment phase		
AMBER	0-255	From dark to light dimming, color macro		
AWIDER	0-255	function in adjustment phase		
FADE	0-255	Adjust the speed from fast to slow soft		
COLOR	0-3	No macro function		
COLOR	4-67	Fixed the macro function, alternating from		

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	slow to fast RGB, white and amber can be individually controlled
68-131	Fixed the macro function, alternating from slow to fast RGBWA
132-255	Phase macro functions, from slow to fast, and with the use of 1,2,3, 4 and 5-channel

function	DMX values and effect	Remarks			
DIMMER	0-255	From dark to light dimming			
0-1		Open light			
	2-64	Slow to off quick open (from slow to fast)			
SHUTTER	65-127	Slow to open quick off (from slow to fast)			
SHUTTER	128-190	Random shutter(from slow to fast)			
	191-253	from slow to fast			
	254-255	Open light			
CLOSE	0-255	The second shutter : slake hold time 0-3s			
C_TO_O	0-255	The second shutter: off to light time 0-3s			
OPEN	0-255	The second shutter: Brightness hold time			
		0-3s			
O_TO_C	0-255	The second shutter: light to off 0-3s			
	0-2	All IDs are efficient lighting its own ID to 0, the channel set to any value is valid			
	3-5	ID:1 effective			
SLAVE	6-8	ID:2 effective			
SLAVE					
	192-194	ID:64 effective			
	195-197	ID is(2*n)+1 effective,(n=0-31)			
198-200		ID is(2*n)+2 effective,(n=0-31)			



201-203	ID is(3*n)+1 effective,(n=0-21)
204-206	ID is(3*n)+2 effective, (n=0-20)
207-209	ID is(3*n)+3 effective, (n=0-20)
210-212	ID is(4*n)+1 effective, (n=0-15)
213-215	ID is(4*n)+2 effective ,(n=0-15)
216-218	ID is(4*n)+3 effective, (n=0-15)
219-221	ID is(4*n)+4 effective,(n=0-15)
222-224	ID is(5*n)+1 effective,(n=0-12)

function	DMX values	Remarks			
TUTICIION	and effect	Remarks			
	225-227	ID is(5*n)+2 effective,(n=0-12)			
	228-230	ID is(5*n)+3 effective, (n=0-12)			
	231-233	ID is(5*n)+4 effective, (n=0-12)			
	234-236	ID is(5*n)+5 effective,(n=0-11)			
	237-239	ID is(6*n)+1 effective,(n=0-10)			
SLAVE	240-242	ID is(6*n)+2 effective,(n=0-10)			
	243-245	ID is(6*n)+3 effective,(n=0-10)			
	246-248	ID is(6*n)+4 effective,(n=0-10)			
	249-251	ID is(6*n)+5 effective,(n=0-9)			
	252-254	ID is(6*n)+6 effective,(n=0-9)			
	255	All IDs are valid			

## Note: (1) 14 channel modes channel order

	. (0.01 (1) 1 1 0.10.11.01.01.01.01.01.01.01.01.01.01.01					
1CH	RED	6CH	FADE	11CH	C_TO_	
					0	
2CH	GREEN	7CH	COLOR	12CH	OPEN	
3CH	BLUE	8CH	DIMMER	13CH	O_TO_ C	
4CH	WHITE	9CH	SHUTTER	14CH	SLAVE	
5CH	AMBER	10C	CLOSE			

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			Н			
<b>(0)</b>	 -	-				

## (2) 10 channel modes channel order

1CH	RED	5CH	AMBER	9CH	SHUTTER
2CH	GREE	6CH	FADE	10CH	SLAVE
	Ν				
3CH	BLUE	7CH	COLOR		
4CH	WHIT	8CH	DIMMER		
	E				

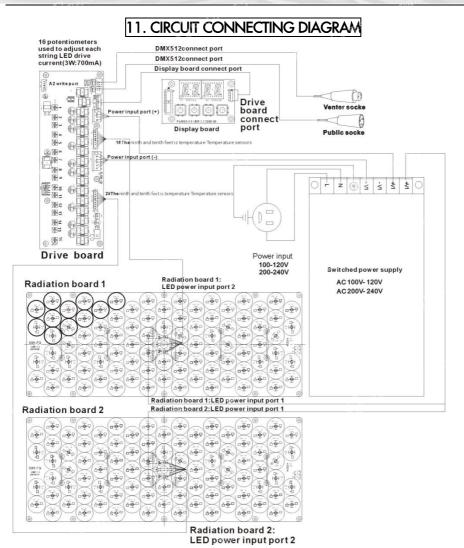
## (3) 9 channel modes channel order

1CH	RED	4CH	WHITE	7CH	DIMMER	
2CH	GREE	5CH	5CH AMBER		SHUTTER	
	Ν					
3CH	BLUE	6CH	COLOR	9CH	SLAVE	

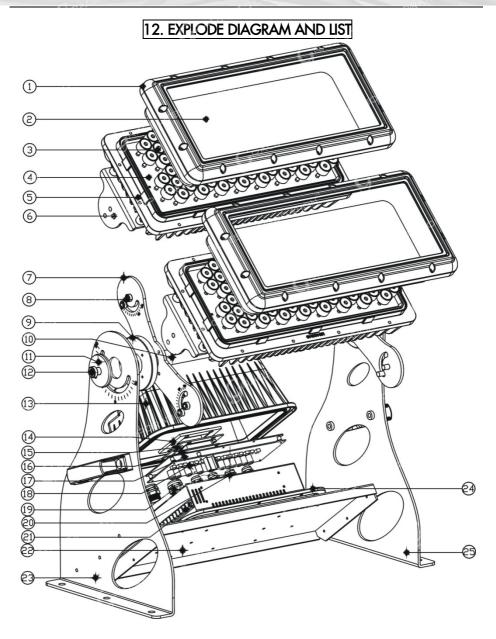
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No.	Inquire number	No.	Inquire number
1	M0400150	15	M0101965
2	M0600825	16	Z0600300002
3	M0600930	1 <i>7</i>	M01019123
4	Z0600742	18	Z0600100011
5	M0400149	19	M1300768
6	M01019122	20	M1300767
7	M01019121	21	M1000933
8	M21008005	22	M01019118
9	M0201928	23	M01019119
10	M0201929	24	M0300789
11	M0201930	25	M01019120
12	M21008011		
13	M0400151		
14	M0300768		

## 13. TROUBLE DISPOSE

It is recommended some solution for some normal trouble shooting. Any electrical problems should always be handling by the professional person. Disconnect the power supply before maintenance the light.

### • LED off:

- 1. Please check if install the suitable voltage
- Please check whether the led will reach the end of their life can explode; please replace a same description led.
- 3. Please check if the power supply is enough.
- 4. Please check whether the DMX 512 controller pass the "turn on" order.
- Though the light is lighting, but it couldn't accept the control order:
  - 1. Please check the start code address and the function option are correct.
  - 2. Please check whether the communicate control cable is on good

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- connection or the cable is too long or interrupt.
- 3. Please check the control system is not valid, check the signal amplifier of chain connected is valid.
- 4. Please check whether the communicate cable is too long or the other equipment is mutually conjugate.
- 5. Please arrange the wire well, shorter the signal cable, put the high voltage cable and low voltage cable separately.
- 6. Add the signal amplify isolator.
- 7. Signal cable is used the excellent screening doublet (Resistance 75 OHM)
- 8. The end of the light end and the end resistance.

## • The light can't move:

- 1. Please check if the power supply is suitable for the light voltage data.
- 2. Please check the fuse of input voltage is defective.
- 3. Please check the light if they are deformation, inside parts is broken, become wet etc., will lead the loose contact.

## 14. CLEANING AND MAINTENANCE

- 1. In order to ensure the projector could work normally. It should be kept clean always .The lens should also be regularly cleaned to maintain an optimum light output. Do not use any type of solvent on lens. It will damage the projector.
- 2. Suggestion: The continue usage of the light don't exceed 4 hours. Or it will shorter the usage of the lamp. Please use the alternative operation to solve this problem.
- 3. Please disconnect the power supply when begin to maintenance take down the light. Please let the parts cool down 10 minute at least then begin to install.
- 4. Please inspect the lens or other moving parts timing and keep them clear and static. If find anything damaged or looseness must change a lamp or fix the lamp in order to avoid the accident.



### CAUTION!

Disconnect from mains before starting maintenance operation.

## 15. DUTY EXONERATIVE AND COPYRIGHT PROTECTION

- Any products broken that didn't according to the instruction is not guarantee to keep it in good repair.
- The commentary for all the instruction belongs to the supplier in final.
- No authorize can't copy.