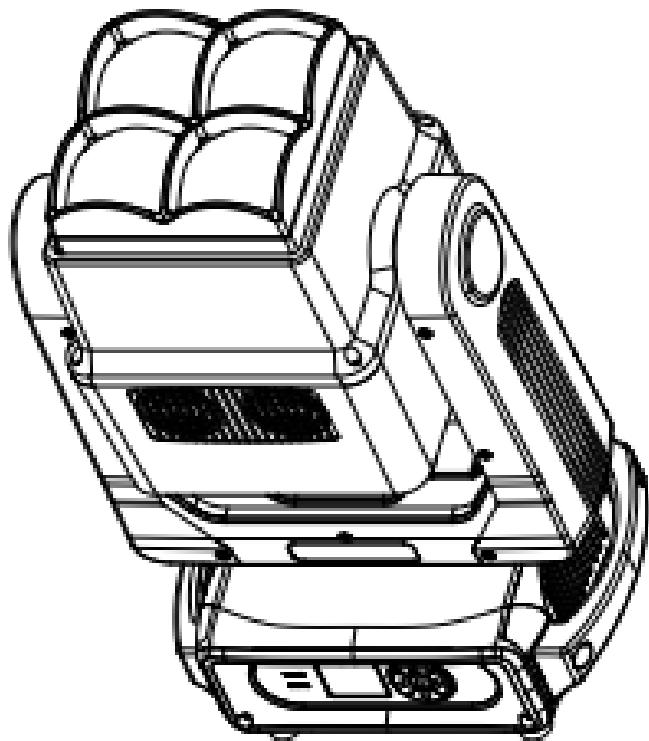


# DOUBLEFACE 460 PXL



CE   IP20 LED D---0.2m  ta 40°C tc 150°C

## User Manual

**KEEP THIS MANUAL FOR FUTURE NEEDS**

## **1. Unpacking**

Thank you for choosing our fixture. For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

Our LED dyeing lamp uses a new type of beautiful high temperature resistant engineering plastic shell and high hardness metal body. This product is designed and produced in strict accordance with CE standards, in line with the international standard DMX512 signal protocol, can be used alone control, can also be used online, with fast rotation, low noise, powerful features, suitable for small and medium-sized concerts, theaters, studios, nightclubs and bars and other places.

This product uses high brightness stable LED. Please remove the package carefully, check whether the product is damaged during transportation, and check whether the following contents are complete.

Moving Head-----One

Signal Cable----One

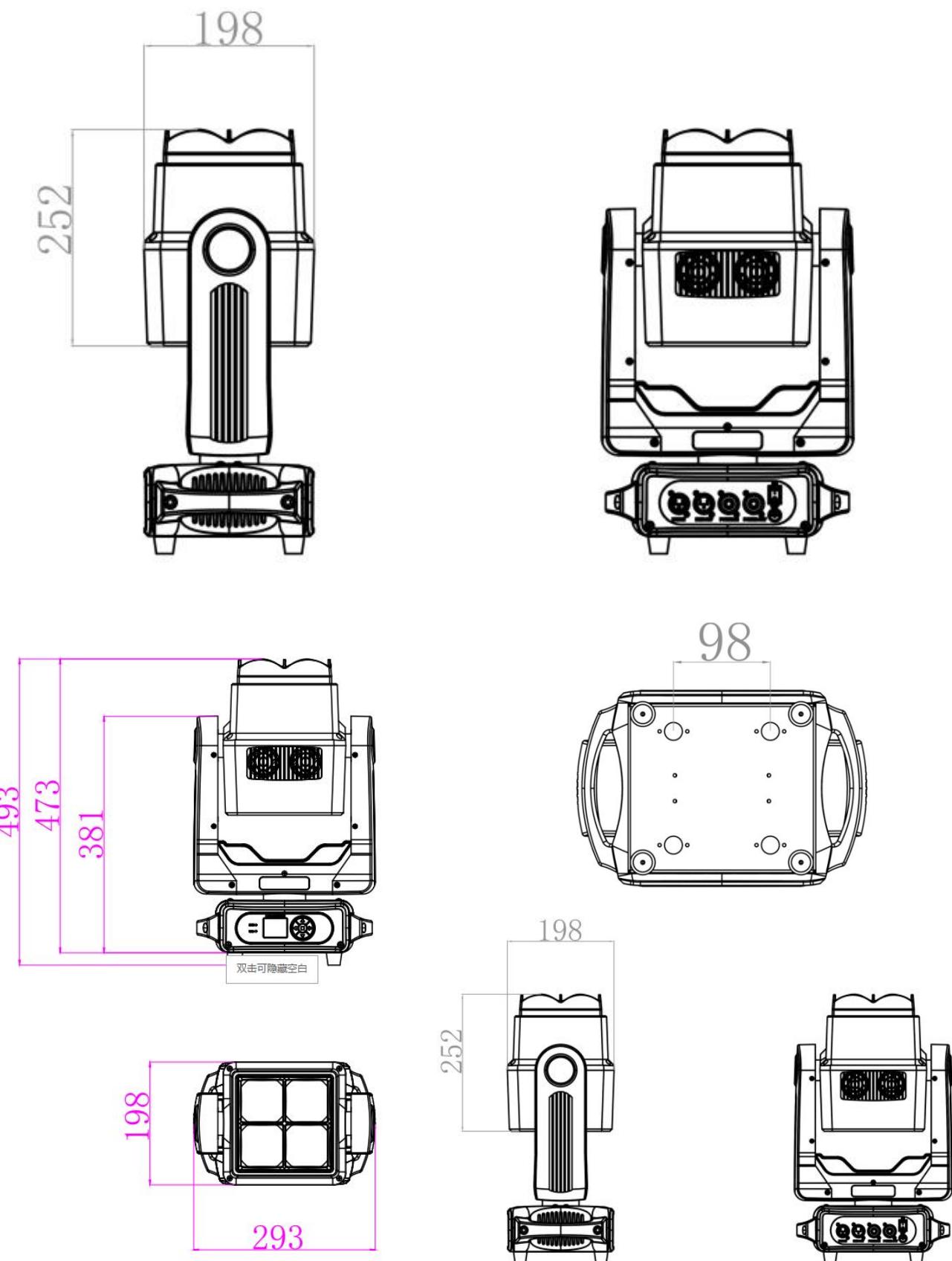
Hanging Bracket----Two

Power Cable----One

Safety Cable-----one

User Manual----One

## 2. Product Dimension (mm):



### 3. Safety Instructions



#### CAUTION!

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

 Important: Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the product has been exposed to extreme unstable temperature conditions (e.g., after transportation), do not supply the product immediately because water drops due to temperature changes may damage the product. Please use the product has returned to normal temperature.

This product can be used in the 90-240V voltage range and is intended for indoor use. Please ensure that the ground voltage is not higher than the tolerable range of the product!! The power plug must be plugged into a protective class I socket. Green or tea-cyan conductors must be grounded.

Please check the product power cord frequently. Ensure that the power cord is not folded or damaged and not connected to other wires! Special attention is required when connecting the power cord or the related wiring. Unplug the power supply without using the product or before cleaning.

Before using the product, please get familiar with the operation function of the product. Please do not expose children or no professionals to the product.

Please do not shake this product. Do not use brute force when installing or operating the product. Do not allow unprofessionals to operate the product.

The product is not equipped with relevant repair accessories. Product maintenance and repair can only be carried out by professionals! Please do not change this product without authorization, otherwise the product may be damaged, so the damage caused is not covered by the warranty. Also, unprofessional operations can lead to short circuits, burns or electric shocks, and so on.

#### **4. Operating instructions**

- -This product is dyeing beam lamp, used to create light beam and dyeing performance effect.
- -If the product after a large temperature difference (for example, after transportation), do not immediately start the product, because the heat account cold shrinkage will damage the product. Please wait until the device reaches the normal room temperature before starting the product.
- -Pay attention to the shock. Avoid strong collisions during product installation.
- -Please do not raise the whole product through the lamp head, because the mechanical nature of the equipment may be damaged.
- -Make sure the product is not exposed to overheated, wet, or dusty places.  
Please do not place any wires on the ground or you may be in danger of suffering an electric shock.
- -Before installing the product, please ensure the installation point of safety
- -Please attach the product to the safety rope and check that all the screws are correct during installation
- -Please make sure that the lens is in good condition. Replace the lens when the lens is damaged or scratched.
- -It is recommended that the technicians familiar with the product operate the product. Non-technical personnel are prohibited from operating this equipment because many losses are the result of non-professional operations.
- -Please keep the packing materials properly for secondary transportation as required.
- -Do not change the product without the guidance from the manufacturer or distributor.
- -Any equipment failure caused by failing to use the equipment is not covered by the warranty. And any accident caused by short circuit, injury, electric shock, ultraviolet light caused by injury, bulb explosion accidents are not within the scope of warranty.

## **5. Product hanging and installation**

Note: For more safety, install this product away from the walkway, seating area, or accessible area.

Before hanging the product, ensure that the installation point supports 10 times the weight of the product.

Product installation must have a double protection device, such as a safety rope.

When hanging, removing or repairing the product, it is forbidden to stand under the installation point

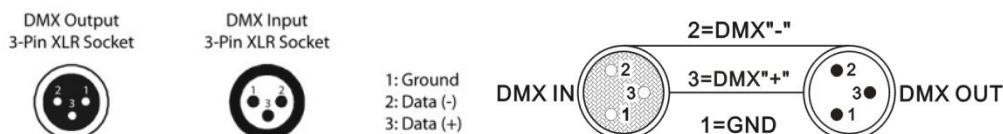
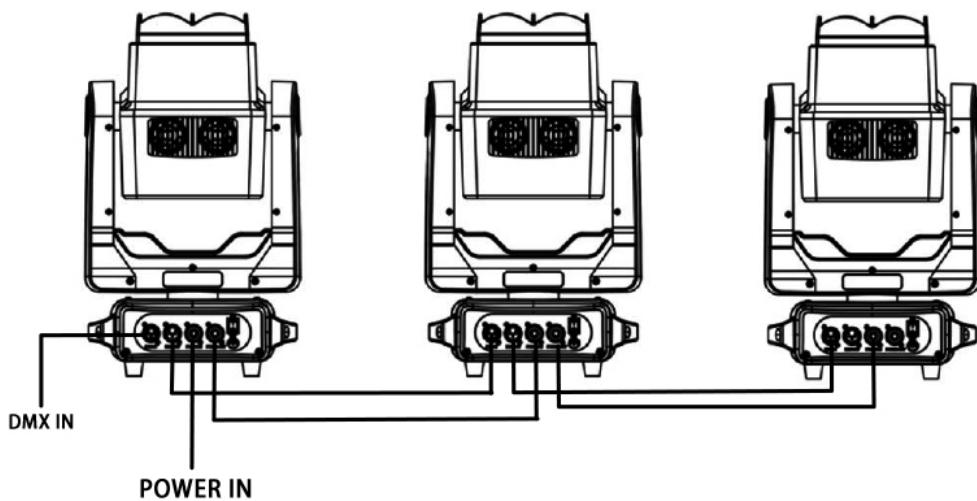
Please ensure that this product should be installed at least 0.5 meters away from the flammable materials.

Please remember to use the safety rope as a safety guarantee in case of accidents.

Hanging point: the top hanging requires that the installation personnel must be experienced, including calculating load-bearing requirements, installation materials used, periodic inspection of the safety status of installation materials and products. If you lack this knowledge, please do not try to install it yourself. If not correctly, it may lead to serious consequences such as personal injury.

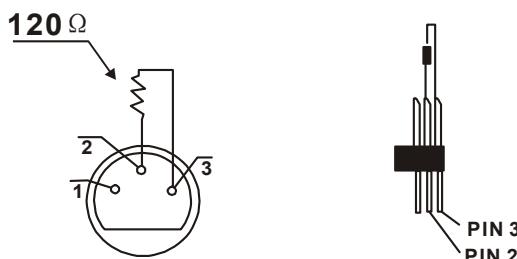
## 6. DMX-512 control connections

Please plug the male header of the XLR signal line into the signal output port of the controller and the master head into the signal input port on the back board of the product. You can connect multiple products in series, take the 3 pin signal cable as an example, the signal cable needs to be 3 core, shielded, with XLR input and output connectors. Please refer to the figure below.(Five-core, same connection method)



### DMX-512 connection with terminal (loop connection)

During installation, a DMX terminal (loop connection) is recommended if the signal line is laid over a long distance, or in noisy environments, such as dance halls. This avoids the digital control signal opacity due to electrical noise. The DMX terminal consists of a simple XLR connector 2 and 3 cores connecting a  $120\ \Omega$  resistor. Please insert the terminal into the XLR output port of the last product, please refer to the following figure.



## 7. Key features:

**Voltage: AC100~240V 50 / 60 HZ**

**Power: 400W**

**Light source: 4pcs\*60W high brightness RGBW led ; 9pcs\*10W high brightness White led; 108pcs RGB led; 96pcs white led.**

**Control mode: DMX512, Auto-run, Master-slave, Sound activated, with RDM function.**

**Channel: CH20, CH34, CH93**

**Dimming: 32bit 0~100% Linear dimming**

**Features: XY moving head + beam + flash + XY infinite + auxiliary light**

**Operating temperature: -30 degrees ~50 degrees**

**Strobe: 1-25HZ**

**Appearance: metal, black**

**Connection mode: DMX512 input / output / power input / output.**

**IP rate: IP20**

**Fixture size: 29\*20\*49cm Net weight: 10.8kg**

## 8. DMX Channel

**20CH**

CH	DMX Value	Details
1	000-255	X rotation
2	000-255	X fine
3	000-255	X infinite rotation
4	000-255	Y rotation
5	000-255	Y fine
6	000-255	Y infinite rotation
7	000-255	XY infinite rotation
8	000-255	Focus
9	000-255	Dimming
10	000-255	Strobe
11	000-255	Main light R
12	000-255	Main light G
13	000-255	Main light B
14	000-255	Main light W
15	000-255	LED W
16	000-255	Auxiliary light R
17	000-255	Auxiliary light G
18	000-255	Auxiliary light B
19	000-255	Auxiliary light W

20	000-255	Reset
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## 34CH

CH	DMX Value	Details
1	000-255	X rotation
2	000-255	X fine
3	000-255	X infinite rotation
4	000-255	Y rotation
5	000-255	Y fine
6	000-255	Y infinite rotation
7	000-255	XY infinite rotation
8	000-255	Focus
9	000-255	Dimming
10	000-255	Main light strobe
11	000-255	Main light R
12	000-255	Main light G
13	000-255	Main light B
14	000-255	Main light W
15	000-255	Main light effect
16	000-255	Main light effect speed
17	000-255	Main light background color
18	000-255	Main light background dimming
19	000-255	LED strobe
20	000-255	LED W
21	000-255	LED effect
22	000-255	LED effect speed
23	000-255	LED strobe
24	000-255	LED R
25	000-255	LED G
26	000-255	LED B
27	000-255	LED W
28	000-255	Auxiliary light RGB effect
29	000-255	Auxiliary light RGB effect speed
30	000-255	Auxiliary light W effect
31	000-255	Auxiliary light W effect speed
32	000-255	Auxiliary light background color
33	000-255	Auxiliary light background dimming
34	000-255	Reset

## 93CH

channel	The channel	basic function
1	000-255	X rotation
2	000-255	X fine
3	000-255	X infinite rotation
4	000-255	Y rotation
5	000-255	Y fine
6	000-255	Y infinite rotation
7	000-255	XY infinite rotation
8	000-255	Focus
9	000-255	Dimming
10	000-255	Main light strobe
11	000-255	Main light R1
12	000-255	Main light G1
13	000-255	Main light B1
14	000-255	Main light W1
15	000-255	Main light R2
16	000-255	Main light G2
17	000-255	Main light B2
18	000-255	Main light W2
19	000-255	Main light R3
20	000-255	Main light G3
21	000-255	Main light B3
22	000-255	Main light W3
23	000-255	Main light R4
24	000-255	Main light G4
25	000-255	Main light B4
26	000-255	Main light W4
27	000-255	Main light effect
28	000-255	Main light effect speed
29	000-255	Main light background color
30	000-255	Main light background dimming
31	000-255	LED strobe
32	000-255	LEDW1
33	000-255	LEDW 2
34	000-255	LED W3
35	000-255	LEDW 4
36	000-255	LEDW 5
37	000-255	LEDW 6
38	000-255	LEDW 7
39	000-255	LEDW 8
40	000-255	LEDW 9
41	000-255	LED mode
42	000-255	LED speed
43	000-255	Auxiliary light strobe
44	000-255	Auxiliary light R1
45	000-255	Auxiliary light G1

46	000-255	Auxiliary light B1
47	000-255	Auxiliary light R2
48	000-255	Auxiliary light G2
49	000-255	Auxiliary light B2
50	000-255	Auxiliary light R3
51	000-255	Auxiliary light G3
52	000-255	Auxiliary light B3
53	000-255	Auxiliary light R4
54	000-255	Auxiliary light G4
55	000-255	Auxiliary light B4
56	000-255	Auxiliary light R5
57	000-255	Auxiliary light G5
58	000-255	Auxiliary light B5
59	000-255	Auxiliary light R6
60	000-255	Auxiliary light G6
61	000-255	Auxiliary light B6
62	000-255	Auxiliary light R7
63	000-255	Auxiliary light G7
64	000-255	Auxiliary light B7
65	000-255	Auxiliary light R8
66	000-255	Auxiliary light G8
67	000-255	Auxiliary light B 8
68	000-255	Auxiliary light R 9
69	000-255	Auxiliary light G9
70	000-255	Auxiliary light B9
71	000-255	Auxiliary light W1
72	000-255	Auxiliary light W2
73	000-255	Auxiliary light W3
74	000-255	Auxiliary light W4
75	000-255	Auxiliary light W5
76	000-255	Auxiliary light W6
77	000-255	Auxiliary light W7
78	000-255	Auxiliary light W8
79	000-255	Auxiliary light W9
80	000-255	Auxiliary light W10
81	000-255	Auxiliary light W11
82	000-255	Auxiliary light W 12
83	000-255	Auxiliary light W13
84	000-255	Auxiliary light W14
85	000-255	Auxiliary light W15
86	000-255	Auxiliary light W16
87	000-255	Auxiliary light RGB effect
88	000-255	Auxiliary light RGB effect speed
89	000-255	Auxiliary light W speed
90	000-255	Auxiliary light W effect speed
91	000-255	Auxiliary light background color
92	000-255	Auxiliary light background dimming
93	000-255	Reset

## 9. Display instruction

Menu	Sub-Menu	Menu function description	
System Settings	1. DMX address	Change DMX address code (address code optional range 001-512), confirm key save, default 001.	
	2. Encoder	Up or down to modify the encoder on / off, confirm the key to save, turn on by default.	
	3. X reverse	Up or down X reverse on / off, confirm the key is saved, off by default.	
	4. Y reverse	Up or down Y reverse on / off, confirm the key is saved, off by default.	
Running mode	1. Operation mode	Up or down select running mode DMX / voice / automatic, confirm key save, default DMX.	
	2. Channel selection	Select channel CH20, CH34, CH 93, confirm key save, default CH34.	
Manual control	1. X	Up or down, modify the operation parameter value of X fine motor (adjustable range 000-255), confirm the key save, default 000.	
	2. X fine	Up or down to modify X fine tuning motor operation parameter value (adjustable range 000-255), confirm the key save, default 128.	
	3. X rotation	Modify the X rotation parameter value up or down (adjustable range 000-255), confirm the key save, default 000.	
	4. Y	Modify the Y-axis parameter value up or down (adjustable range 000-255), confirm the key save, default 128.	
	5. Y fine	Modify Y fine parameter value up or down (adjustable range 000-255), confirm key save, default 000.	
	6. Y rotation	Modify the Y rotation parameter value up or down (adjustable range 000-255), confirm the key save, default 000.	
	...	...	
	34. Reset	The parameter value is reset in 150-255, and the console parameter value must be pulled below 10, and then pushed to 150-255 to be useful. The parameter value is useless in 000-149, which cannot be reset.	
Display settings	1. Language selection	Select CH/EN (English) up or down, confirm the key to save, default Chinese.	
	2. Reverse setting	Select off / On up or down, confirm that the key is saved and close by default.	
	3. Screen protection	Up or down, confirm the key to save, open by default.	
	4. Software version	06X A program ID code, not modifiable.	
Factory setting	Show: Please enter the password! Change up or down to 138, and then press the confirm key to enter the factory setting.	1. X-axis calibration	Modify parameters up or down (range 000-255), confirm key save, default 128.
		2. Y axis calibration	Modify parameters up or down (range 000-255), confirm key save, default 128.
		3. Zoom calibration	Modify parameters up or down (range 000-255), confirm key save, default 128.
		4. Focus adjustment schedule	Modify parameters up or down (range 000-255), confirm key save, default 128.
		20. Temperature	Modify temperature parameters up or down (range 40-70), confirm key save, default 060.
		21. Temperature-fan	Select Off / open temperature-Fan control, confirm key save, off by default.

## **10. Product maintenance and cleaning**

The following points have to be considered during the inspection:

1. All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2. There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
3. Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
4. The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



### **CAUTION!**

Disconnect from mains before starting maintenance operation.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions". Should you need any spare parts, please order genuine parts from your local dealer