

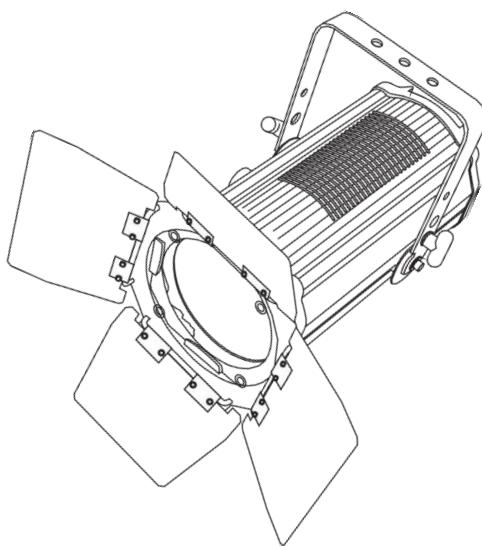



## User Manual: Squared Lumino 600W DualWhite

# **SquareLED Lumino**

## **600W LED Fresnel**

### **Dualwhite**



CE RoHS  IP20

## **User Manual**

# 1

## 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 device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device.

Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must be carried out by a qualified person. The device shall only be used with rated voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

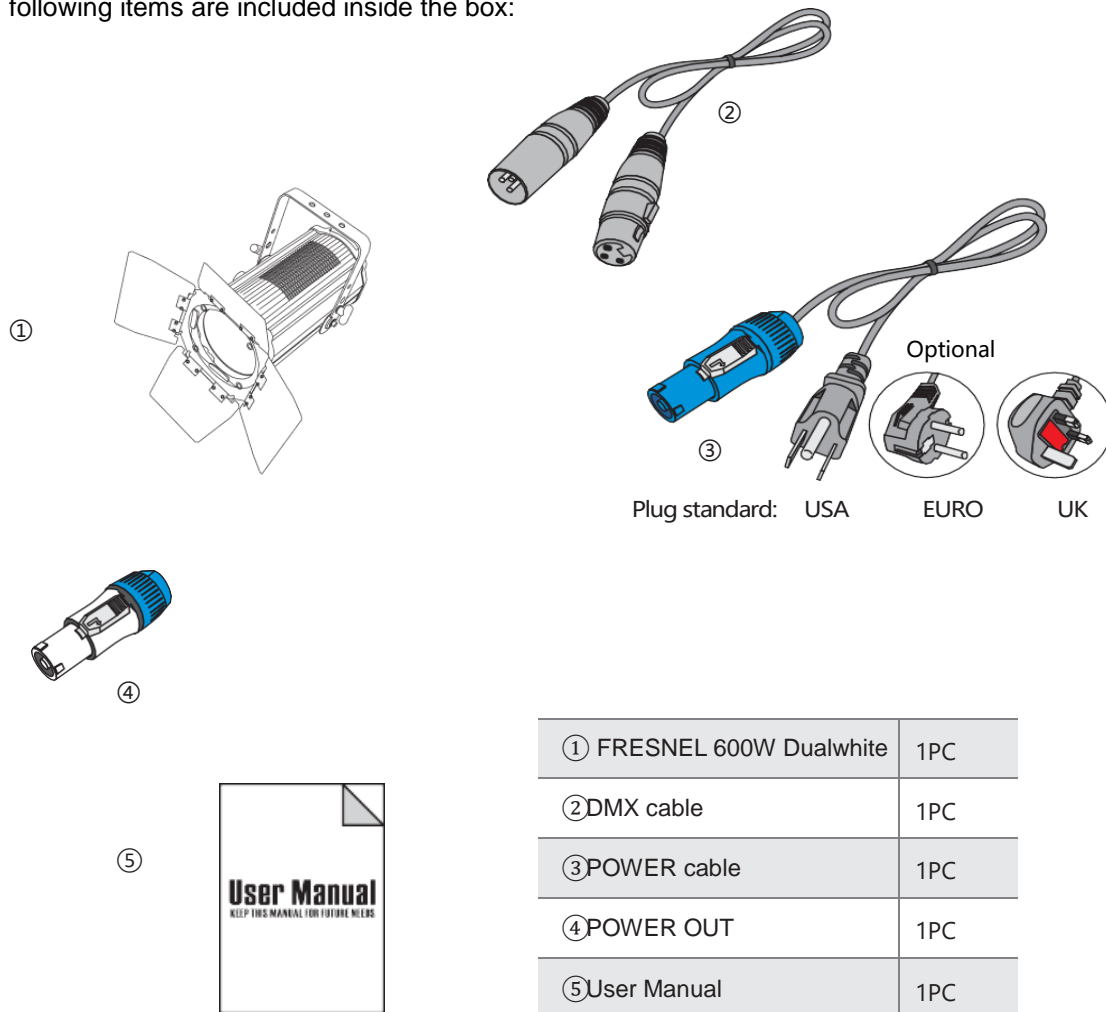
If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

## 2 Unpacking

Thank you for choosing SquareLED Lumino 600W LED Fresnel Dualwhite. 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.

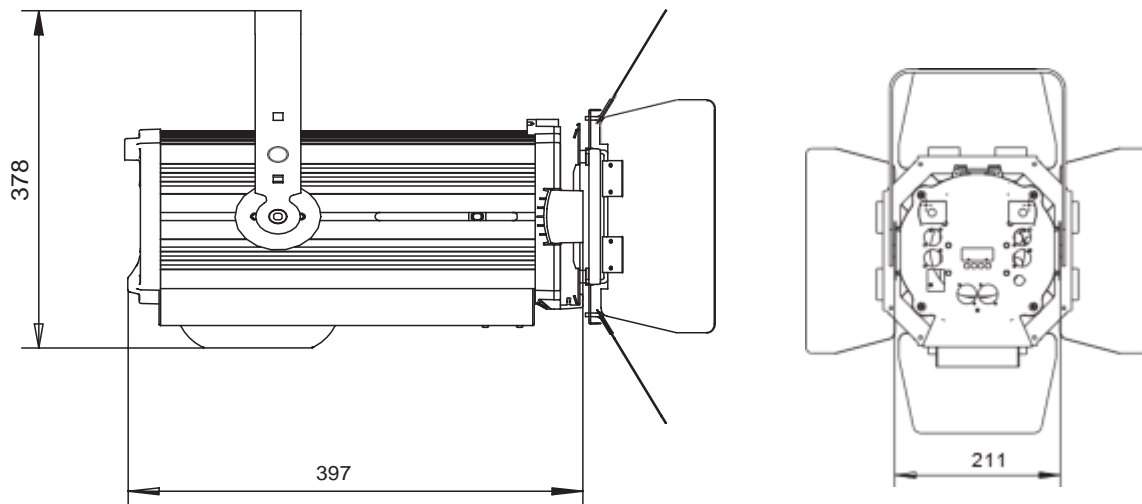
The SquareLED Lumino 600W LED Fresnel Dualwhite is made of a new type of high temperature strength of cast aluminum alloy casing with nice outlook. The fixture is designed and manufactured strictly following CE&RoHS standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

The SquareLED Lumino 600W LED Fresnel Dualwhite adopts 1PC 600W COB LED (CW+WW) which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:



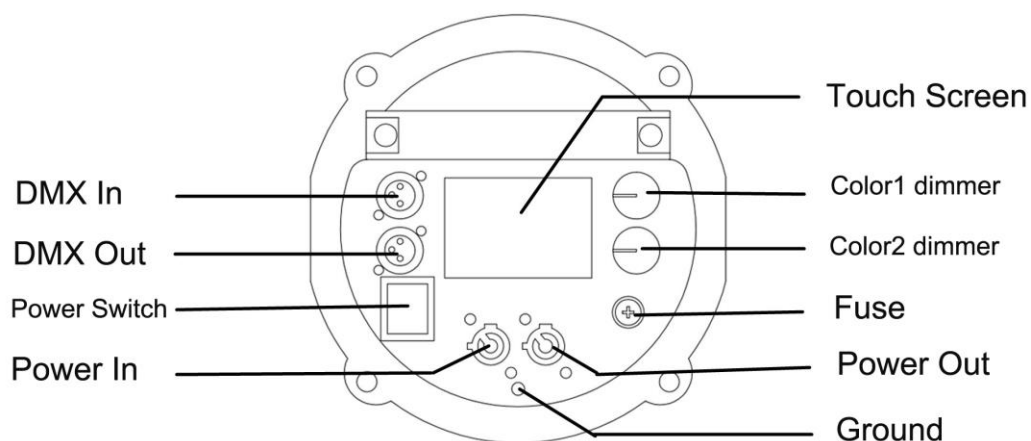
### 3 FEATURES & SPECIFICATIONS

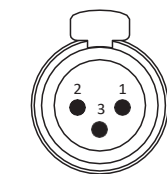
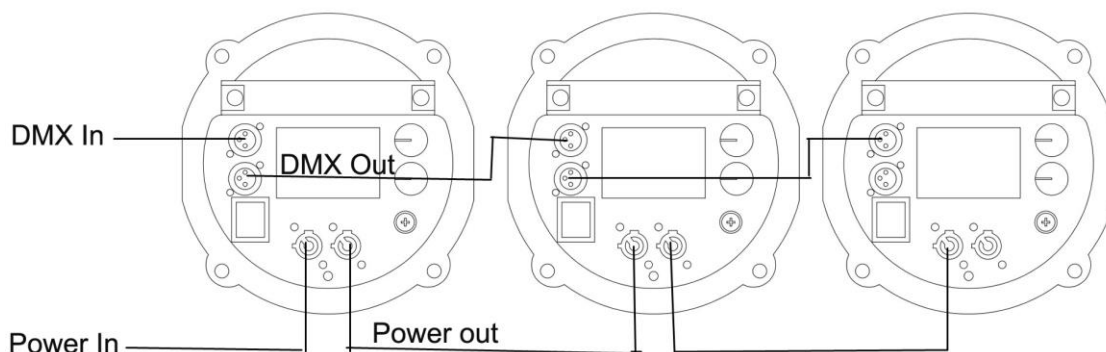
Feature:
*CW+WW(2in1 300W) COB LED, LED POWER: 600W
*50,000 hours life time and low power consumption
*Color Rendering Index(CRI): Ra≥90
*High efficiency fresnel lens
*Soft and even field of light
*Auto zoom system from 15°-50°
*Aluminum alloy housing
*Thermally insulated rear handle
*High-strength single handle design
*Barn door included
*4 kinds of dimming curve
*Dimming Frequency: 500HZ - 25000HZ optional
*4 DMX channels
*Control Protocol: RDM / DMX , Master/Slave, Auto run and Sound mode
*LCD with touch screen
*Low noise fan with copper liquid cooling system
*Working Temperature: -10°C~40°C
*IP20 protection rating
Specifications:
*Input Voltage:AC100-240V 50/60Hz
*Max. Power: 300W
*Dimensions: 397(D)*211(W)*378(H)mm
*Packing Size: 580(D)*325(W)*320(H)mm
*Net Weight: 9kg
*Gross Weight: 11.5kg



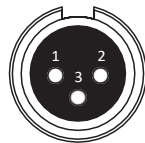
## 4 DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.  
DMX-512 connection with DMX terminator



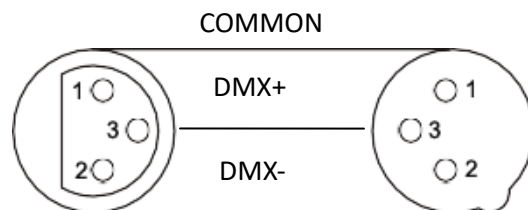


DMX Output  
3-Pin XLR



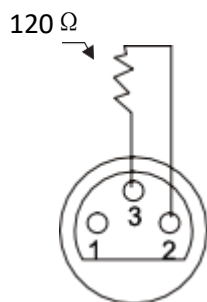
DMX Input  
3-Pin XLR

- 1:Ground
- 2:Data(-)
- 3:Data(+)



DMX512 Out  
3-Pin XLR

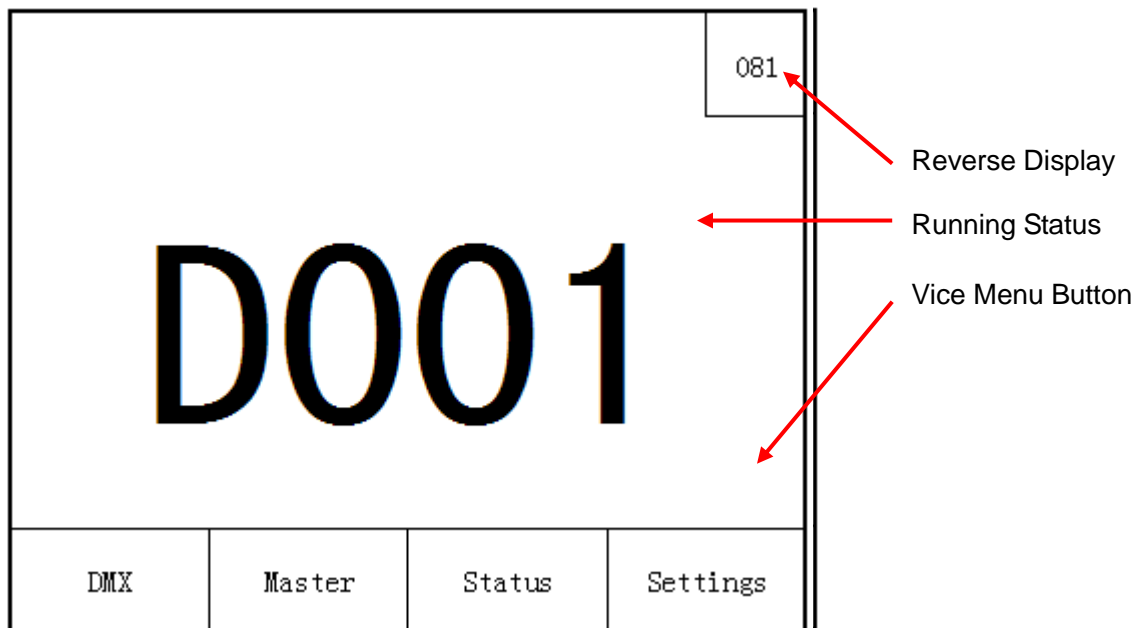
DMX512 In  
3-Pin XLR



For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120  $\Omega$  resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.

## 5 Main Menu

### 5.1 Main Menu



### 5.2 Operation Status

Mode	Display	Description
DMX Mode	Dxxx	"D"stand for DMX mode
Temperature Mode	M-WP	"M"stand for stand Master, "WP"stand for"White Point"



## 6 DMX Menu



Enter DMX mode:

1. If you are in DMX mode, the main menu will turn into DMX menu automatically after 5 seconds
2. Menu of DMX address (DMX mode) will turn into DMX menu automatically after 5 seconds

Quit DMX mode

1. Screw mode: Press knob 2.
2. Touch mode: Touch any area out of "DMX" in DMX menu (press "DMX" is enter the menu for setting DMX address)

DMX Menu Operation:

1. DMX mode: When the DMX 512 signal is connected correctly and the data of channel 1 which is bigger than 0, use the received DMX data value for dimmer and temperature control (See the channel data sheet). This moment knob 1 and knob 2 can not be used in dimmer; knob 1 only use for menu operation. For example, Changing the DMX address: press knob 1 to enter or exit the editing status. (Turn left or right for changing the dm x address)
2. Screw mode: When disconnect DMX signal or the channel 1 data is 0, can use knob 1 for the dimmer, knob 2 for color temperature.

## 7 Vice Menu

### 7.1 Master Mode:

Menu	State	Operation
Intensity	Dimmer (0~100%)	Press knob 1 to enter or exit the editing of address data. (Turn left or right for changing the data)
White Point	Color temperature (3000~6000K)	
Focus(Zoom)		

### 7.2 Status

Software	Name of software
Version	Version
Temperature	Show the current temperature of the fixture
DMX Status	Show“OK” (Slave, with DMX signal) , “NONE” (Slave, without DMX signal) 、 “Master” (Master)
.....	(other)

### 7.3 Setting

Menu	State	Option	Mark
Touch Screen Calibration	Touch Screen Calibration		
Dimmer Frequency	Choose the dimmer frequency	500HZ	Increase or decrease with data of 100HZ
		.....	
		25000HZ	
Dimmer Curve	Choose the dimmer curve	Standard	
		Incandescent	
		Linear	
		Quick	
Over Temperature	Set the protect temperature	45~95	Increase or decrease with data of 5
Backlight	Adjust the Backlight brightness	10%~100%	Increase or decrease with data of 5%
Backlight Timeout	Set the screen protect time	screen protect or screen protect after 5~60 seconds	Increase or decrease with data of 5
Load Factory Settings	Reset		

## 7.4 Screw operation

For example of “changing the brightness under the master mode”

1. In main menu, turn the knob 1 and choose “Master”, press knob 1 for enter.
2. In the menu of “white point”, turn the knob 1, choose the “Intensity”
3. Press knob 1 enter editing status.
4. Turn knob 1 for choosing the brightness (Long press for increase or decrease continuously)
5. Press knob 1 exit edit status.

## 8 DMX CHANNELS

Channel	Data	Function	Mark	Channel 2 data mnemonic	
1	0	Screw Mode	Knob 1 is for dimmer		
	1~255	Dimmer			
2	0~11	3000K	Color temperature 1	$8 = 1 \times 8$	Totally 31 kinds of color temperature. Quick color: If you need the color of N, then take the data value of $N \times 8$ . For example you need the color 1: $1 \times 8$ , to push the channel data in 8.
	12~19	3100K	Each 8 data is for a color temperature	$16 = 2 \times 8$	
	20~23	3200K~5800K		$(V = N \times 8)$	
	236~243	5900K		$240 = 30 \times 8$	
	244~255	6000K	Color temperature 31	$248 = 31 \times 8$	
3	0~255	Focus(Zoom)			
4	0~255	Speed of Focus(Zoom)	255 is the fastest		

## 9

## OPERATION & SPECIFICATIONS

- The SquareLED Lumino 600W LED Fresnel Dualwhite is an LED fresnel light for on-site decoration purpose.
- Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be keep away from strong shaking during any transportation or movement.
- Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
- Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make sure the installation place is in good safety condition before installing the fixture.
- Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
- Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
- Make sure the fixture is operated by qualified personnel who knows the fixture before using.
- Keep the original packages if any second shipment is needed.
- Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
- It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

## 10

## INSTALLATIONS

For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas where the fixture might be reached by unauthorized personnel.

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.

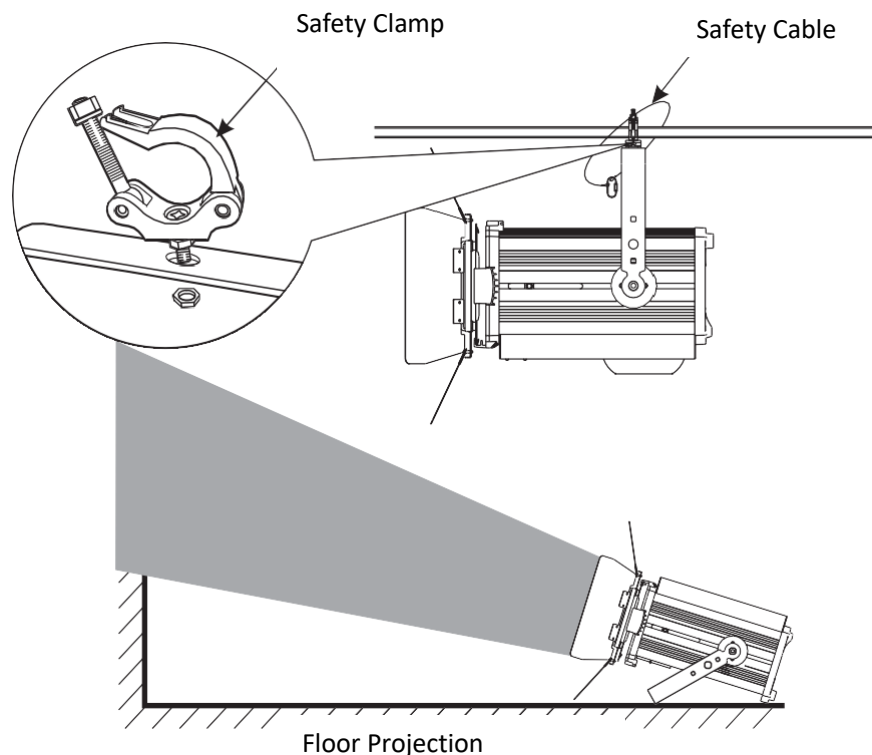
Never stand directly below the device when mounting, removing, or servicing the fixture.

From a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.).

Please ensure that the led fresnel spotlight is hung using the appropriate "C" clamp or half cheeseboro. A safety chain or cable should also be used as a secondary point of holding the fixture in case the clamp comes loose. Never hang the fixture without a safety chain or cable. There is an eye-bolt on the back of the fixture to which the safety chain or cable can threaded through and then hung from the secondary point. Make sure the Gel frame (Gel holder) is clipped into position correctly and cannot come loose.

If you are not qualified or have any doubts about hanging the led fresnel spotlight then do NOT hang it.

Do not clamp the safety cable to the U bracket or clamp. That is not a secondary safety point. A secondary safety point is any point that will adequately hold the led fresnel spotlight if the "C" clamp or half cheeseboro fails. Then the safety cable would be the backup and stop the fixture from falling to the ground. So do NOT fix the safety cable to the same place that the "C" clamp is attached



## **11** Cleaning and maintenance

Now ignoring maintenance and cleaning is very good way of creating problems "down the road" and many companies and installations do just that. However the net result is, no matter what the fixture, premature failure!

Changing the oil in a car, most people do on a regular basis.

So with the fixtures, regular maintenance is an excellent practice, if you want the fixtures to last.

So what is the maintenance for the fixture?

### **Clean the fans!**

Turn off the led fresnel spotlight.

Using a small vacuum cleaner, suck the dust and "fur balls" out.

Do not use a can of  $\text{CO}_2$ . That will just blast the dust and dirt everywhere!

The fans keep the LED cool and keep the electronics cool too.

Without the fan working efficiently and dust free, the fixtures will fail and that will be a lot more costly than having someone

vacuum the fixtures on a regular basis.

How often should the fans be cleaned? It depends on where the fixtures are; in a very dusty atmosphere once a week. So

check the fans on a regular basis, they may not need cleaned every week but a quick "visual inspection" should be done.

The front lens should be cleaned so the light output is maintained.

The shutter blades sometimes require cleaning as well.

With the led fresnel spotlight turned off, use only a moist lint-free cloth. Never use alcohol or solvents to clean the fixture.

Never spray anything onto the fixture at the front or in any place on the fixture.



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