

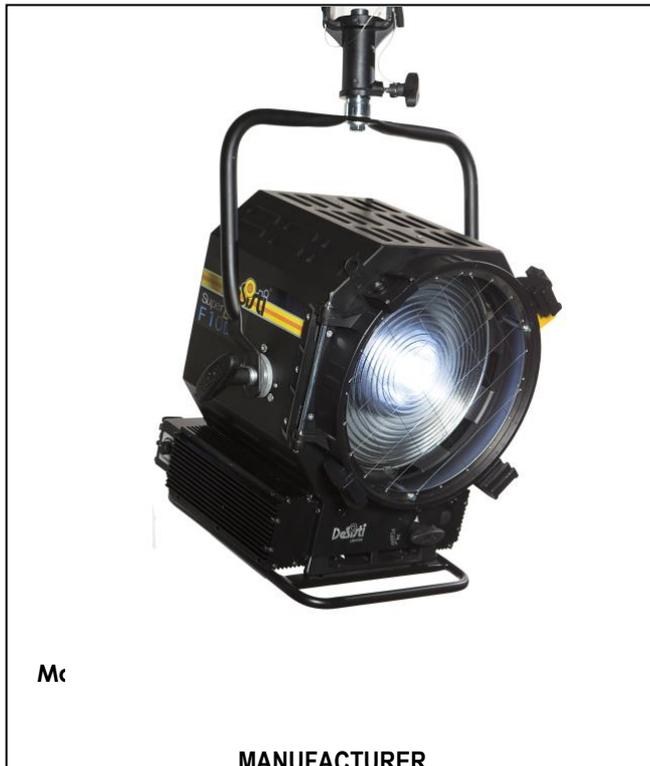


SUPER LED F10HP

330W LED Fresnel SPOTLIGHT 90-240V 50-60 Hz

(white light, either Tungsten or Daylight balanced Correlated Color Temperature)

INSTRUCTION MANUAL



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1. INTRODUCTION

Congratulations on your purchase of a SUPER LED F10 HP lighting fixture.

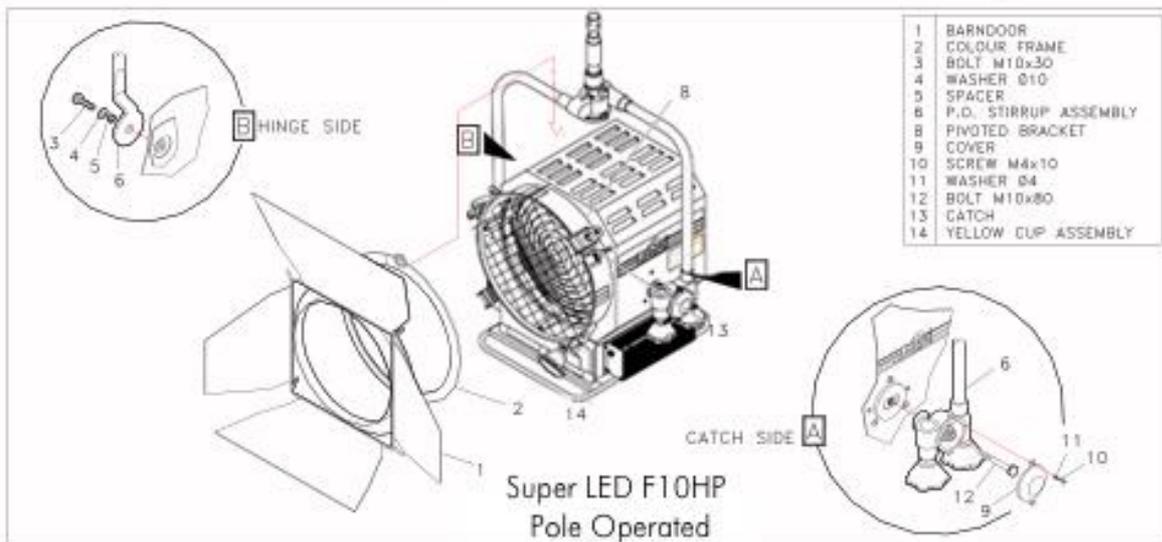
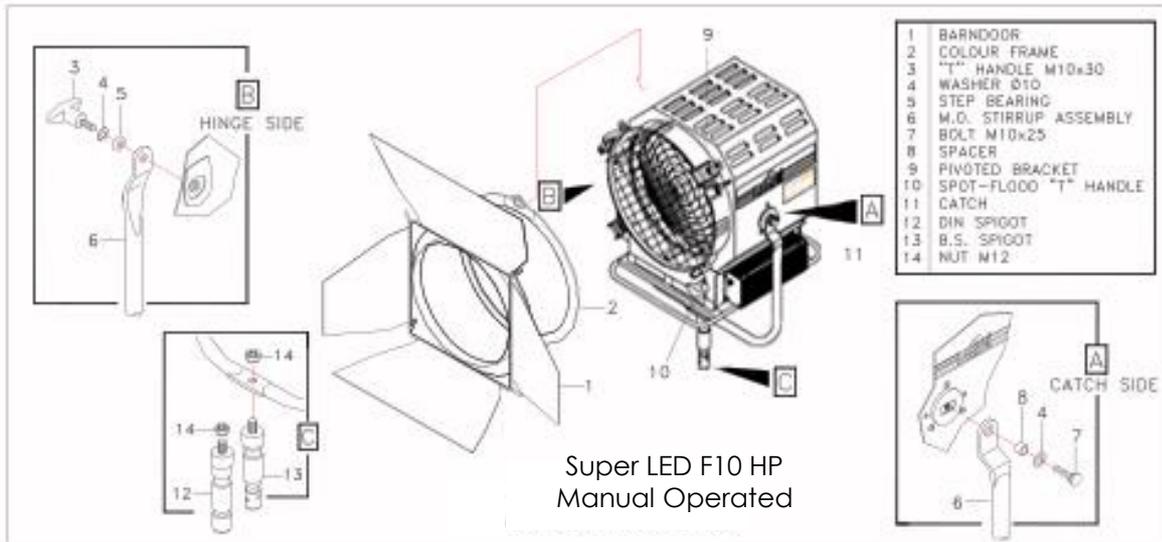
Our commitment to Total Customer Satisfaction and our consolidated experience and leadership in design innovation and manufacturing of lighting products for the professional Entertainment Industry means you can depend upon the quality of this product.

The SUPER LED F10 HP is a compact, highly efficient Fresnel lens spotlight using a LED ARRAY combined with the DE SISTI Patented optical system to optimize the photometric performances of LED ARRAYS when utilized in combination with either Fresnels or Plano Convex lenses.

The Lighting Fixture is DMX Controlled and includes a number of parameters that can be set locally, it is equipped with power supply for AC feed (90-240V 50-60Hz) and it is available with either Tungsten or Daylight Balanced CCT with high power and high CRI.

It utilizes Standard accessories from the DE SISTI range of equivalent Fresnel Lens size, such as Barndoor, Colour Frame, Cones, scrims.

2. YOKE AND ACCESSORIES ASSEMBLY



3. POWER AND DMX DAISY CHAIN



The SUPER LED F10 HP permits both POWER and DMX DAISY CHAIN. In fact each Fixture is respectively equipped with:

For DMX:

- 1 XLR5 pin Panel Mount Male (DMX IN)

- 1 XLR5 pin Panel Mount Female (DMX OUT)
- For Mains Supply
- 1 20A Powercon NAC3MPA BLUE (POWER IN)
 - 1 20A Powercon NAC3MPB WHITE (POWER OUT)

It is recommended to Daisy Chain a Max of 10 fixtures, even if the limitations imposed by DMX Standards are for an higher q.ty of units and even if the Powercon Connections are rated for 20A max.

4. CHARACTERISTICS AND PERFORMANCE DATA

DESCRIPTION	VALUE	DESCRIPTION	VALUE	
LED Power	330W – DC Current to the LED – flicker free	Protection Type	IP22	
Power Consumption	400 W @230V / 400W @120V	LED array lifetime	50.000 hours with 70% lumen maintenance. The LED Arrays are tested and certified up to LM80	
Power Connection	powerCON IN & OUT	Max Housing temperature	70° C	
DMX Data Link USITT DMX512-A	This product uses a 5-pin XLR for DMX input and output. Use a shielded data cables. Do not overload the daisy chain. Up to a maximum of 32 devices can be used on a single DMX chain.	Weight of Fixture	M.O.	P.O.
			13,5 kg. (29.7 lbs)	14,8 kg. (32.5 lbs)
DMX Channels	1 @ 8bit / 2 @16bit	Weight of barndoor	4 leaf	8 leaf
			1,4 kg. (3.09 lbs)	1,65 kg (3.64 lbs)
Protection class	Class 1– ground connection required	Size of scrims & color frame	Seat Diameter	Acc.ies Diameter
			306 mm. (12")	305 mm. (12")
Lens diameter	250 mm. / 10"	Size of barndoor ring	Seat Diameter	Ring Diameter
			314 mm. (12 1/3")	313 mm. (12 1/3")

5. SAFETY INSTRUCTIONS

⤷ **Professional use:** This luminaire has been designed for professional use and must be operated by qualified personnel only. Not for residential use.

⤷ **Grounding:** WARNING: THIS LUMINAIRE MUST BE GROUNDED

⤷  **WARNING: Disconnect Power CORDS before any maintenance work or opening the FUSE HOLDER. Risk of serious injury.**

⤷ **Electrical connections:** IMPORTANT The cores in this mains lead are colored in accordance with the following code:

	Europe	America
Ground	Green & yellow	Green or green & yellow
Neutral	Blue	White
Live	Brown	Black

In case the colors of the cores do not correspond to the colors of the connection points on your plug, please proceed as follows:

- the green or green and yellow core must be connected to the connection point marked with the letter E or with the  or colored in green or in green - yellow;
- the blue (or white) core must be connected to the connection point marked with the letter N or colored in black;
- the brown (or black) core must be connected to the connection point marked with the letter L or colored in red.

Working conditions

⤷ Working Position	Lighting fixture: Max. Tilting $\pm 90^\circ$ from horizontal			
⤷ Ambient Temperature, t_a at the place of installation and Storage	Minimum 10°C, maximum +40°C			
⤷ Humidity at the place of installation and Storage	25-80% (not condensing)			
⤷ Minimum distances from inflammable surfaces	Top	Back	Sides	Front
	0,3 m.	0,15 m.	0,15 m.	1 m.

The luminaire should never be OPERATED close to inflammable materials. The ones indicated in the above table are the minimum distances recommended. Other requirements for safe use are:

- A. Do not cover the apertures of the luminaire housing. They are essential for correct ventilation.
- B. Use only original accessories and spares from De Sisti Lighting.
- C. Before hanging the luminaire ensure that the suspension point (or the stand) is properly rated to accept the luminaire weight.
- D. In case of pole operated use, fit only a P.O. stirrup from De Sisti Lighting.
- E. A suitable secondary safety suspension device (safety cable, chain or equivalent) must be fitted between the suspension point and the eyelet at the front of the body.

WARNING : DO NOT MOUNT THE LUMINAIRE ON A NORMALLY FLAMMABLE SURFACE.

6. INSTALLATION INSTRUCTIONS

The following procedure should be adopted:

Before connecting the luminaire to the electrical mains ensure that:

- A. Earth line is present on the power socket.
- B. The mains voltage is within the rated range of the luminaire (see technical data on the rating label)
- C. The front safety shield is present and in good condition.
It consists of a fresnel lens made by borosilicate untoughened glass, with a Diameter = 250 mm , thickness = 7 mm typ (4 min).



WARNINGS:

- Do not operate the product if the ambient temperature exceeds 40° C
- Provide a minimum clearance of 0,1m (4 in.) around fans and air vents.
- SHIELDS, LENSES SAFETY OR DICHROIC GLASSES SHALL BE CHANGED IF THEY HAVE BECOME VISIBLY DAMAGED TO SUCH AN EXTENT THAT THEIR EFFECTIVENESS IS IMPAIRED, FOR EXAMPLE BY CRACKS OR DEEP SCRATCHES.
- THE LUMINAIRE SHALL ONLY BE USED COMPLETE WITH ITS PROTECTIVE SHIELD

D. Applying power:

Never connect to dimmer power. Install a power plug on the power cable using the following pin assignment:

1 : Neutral 2 : Live Green/Yellow : Ground - This fixture must be connected to ground.

Make sure the local power voltage is within the range specified. If so; connect the power cable and turn the power on.

E. Stand Alone operation:

Using the navigation buttons and display readout (refer to the “Local Menu” chapter) navigate to Manual and set the desired intensity (for additional operations see “Local Menu” chapter)

F. DMX operation:

Connect a DMX cable

Navigate to Address mode (Addr) and set the desired address, (refer to the “Local Menu” chapter).

Connect to DMX controller (refer to the “Channel Setting” in the “Local Menu” chapter) and Use it.

7. LOCAL MENU

The SUPER LED F10 HP has a GRAPHIC DISPLAY backlit, with two local knobs, each one having a push/click function in addition to the rotation:



KNOB 1

It is as a DEFAULT the CCT Variation Knob, By rotating it clockwise the CCT Changes from 2.750°K up to 6.900 °K. If such a knob is kept pushed, it provides a FAST ACTION on the KNOB 2 which is normally the DIMMING

Display

It is a Graphic, backlit LCD Display. It contains all the relevant information for the product setup and performances, such as CCT, DMX Address, DMX Level, LED Temperature and local dimming. When the local knobs are not used for more than 5 seconds the display back illumination will go OFF and the display itself will go in STAND BY Mode. It will go ON again anytime a KNOB is activated.

KNOB 2

It is as a DEFAULT the DIMMING Variation Knob, By rotating it clockwise the Dimming of the Light Changes from 0up to Full Light Output. If such a knob is pushed, it has the selection or enter function to, for instance, enter into a Menu

DEFAULT SETTINGS ARE INDICATED IN BOLD LETTERS ON THE FOLLOWING TABLE:

The following are the BASIC FUNCTIONS and COMMANDS that are provided on the LOCAL MENU of the LED FRESNEL. The unit is provided with a USER

MENU accessible instantly on the product.

1st menu displayed

2nd menu displayed

Explanation of each menu function



DMX ADDRESS

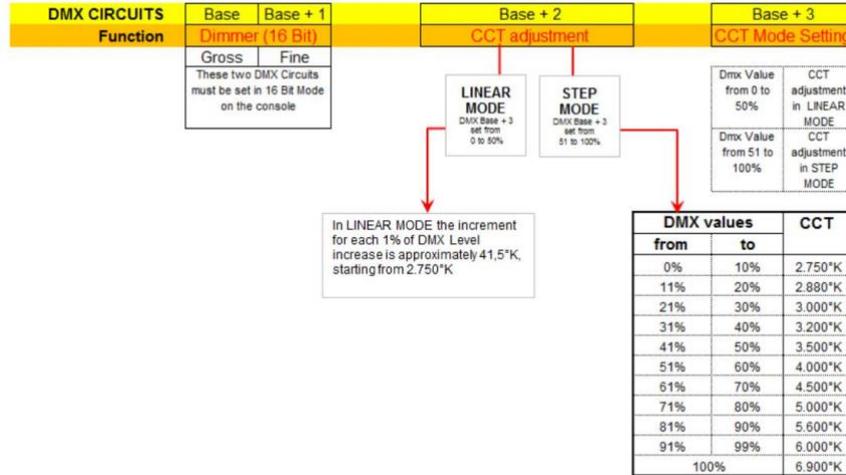
This Function is to SET the DMX address from 1 to 512. The Product is delivered with a default setting of the DMX address at 1. As indicated next to each picture, it is required to reach the DMX addr Menu, select the preferred base DMX Address and Select it.

Once the DMX Address is SET, in order to return to the MAIN MENU, it is necessary to rotate KNOB 2 counter-clock-wise to return to the EXIT item and then select it by pressing KNOB 2 itself.

The Product is delivered with a default setting of the DMX address at 1.

As indicated next to each picture, it is required to reach the DMX addr Menu, select the preferred base DMX Address and Select it.

Once the DMX Address is SET, in order to return to the MAIN MENU, it is necessary to rotate KNOB 2 counter-clock-wise to return to the EXIT item and then select it by pressing KNOB 2 itself.





CHANNEL SETTING (RESOLUTION & FUNCTION)

This function is to SET THE DIMMING RESOLUTION either at 8 bits or at 16 bits. Select DMX resol by rotating and pushing KNOB2, the following choices are available:

- 8 bits resolution (the display will show 8 bit). The fixture utilizes 1 DMX Circuit for the Light Dimming, which is the BASE CIRCUIT set in the ADDRESS.
- 16 bits: 16 bits resolution (the display will show 16 bit and this is the default setting).

The fixture utilizes 2 DMX Circuits:

The Base Circuit set in the address is the Coarse Dimming, the second Circuit (Base +1) is the Fine Dimming.

Of course the benefit of the 16 bits function the corresponding circuits on the DMX Lighting Board shall also be set at 16 bits.

The DMX channels Base +2 and Base +3 are dedicated to the CCT Variation Control as described previously.

LOCAL DIMMING CONTROL

This function is to LOCALLY DIM THE LED INTENSITY from 0 to 100%

(Product is delivered with default setting of the Dimmer at 0)

the right knob is doing the dimming action and it goes with a fine tuning in normal condition, or a fast dimming when rotating KNOB 2 while keeping KNOB 1 pressed in.



When the DISPLAY is in STAND BY Mode, please rotate KNOB 2 to act on the LIGHT INTENSITY Dimming...Clock Wise to increase the level and Counter Clock Wise to decrease it. Fine control: 1 full TURN of the KNOB 2 = 5% Dimming Variation

For faster Dimming Control keep KNOB 1 pressed and rotate KNOB 2: 1 full TURN of the KNOB 2 = 40% Dimming Variation 1 full TURN of the KNOB 2 = 5% Dimming Variation



LOCAL CORRELATED COLOR TEMPERATURE CONTROL

This function is to LOCALLY ADJUST THE CORRELATED COLOR TEMPERATURES from 2.750°K to 6.900°K (Product is delivered with default setting of the CCT at 2.750°K)

The rotation of KNOB 1 will display CCT increments according to the following table (STEP MODE)

LOCAL OR REMOTE CONTROL SETTINGS

The LED Fresnel has the facility to block the LOCAL DIMMING and CCT SETTINGS and maintain it when the POWER is turned off and then on again.

If a continuous CCT Adjustment is required (FINE MODE) it is necessary to operate through a DMX console, please see DMX level can be blocked, so that for instance a system lighting a SET can be operated by a remote switch or simple breakers by TURNING POWER ON.

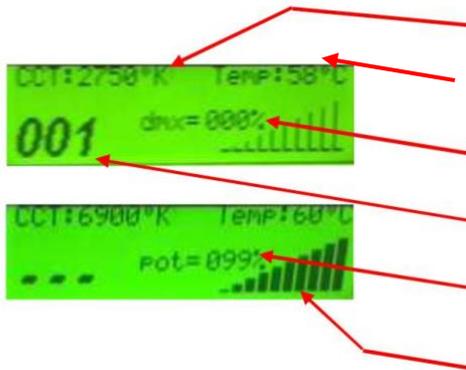
The machine is set to Auto save OFF as default: in this condition the Fixture can be controlled locally until a DMX device is connected to it. Once the Console will be acting it will take priority over any local control.

To turn the Auto save ON please follow these instructions:

- rotate KNOB 2 and select Auto save OFF
- press KNOB 2 to highlight the status of Auto save, in this case OFF
- rotate KNOB 2 to turn the status of Auto save to ON and press it
- leave the settings in this condition; the light will ignore any DMX Control. In this mode any local dimming setting will be maintained and will be automatically recalled after power off, when turning the power on again.

CCT
2.750°K
2.880°K
3.000°K
3.200°K
4.000°K
5.600°K
6.900°K

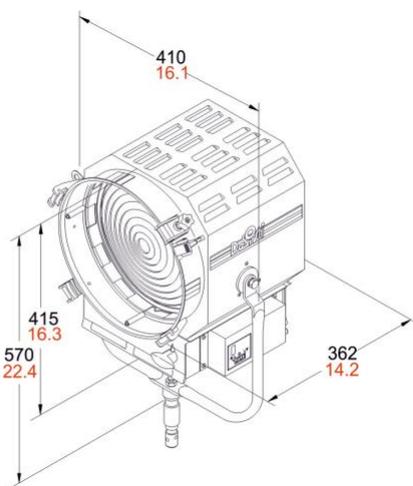
INFORMATION PROVIDED ON THE DISPLAY



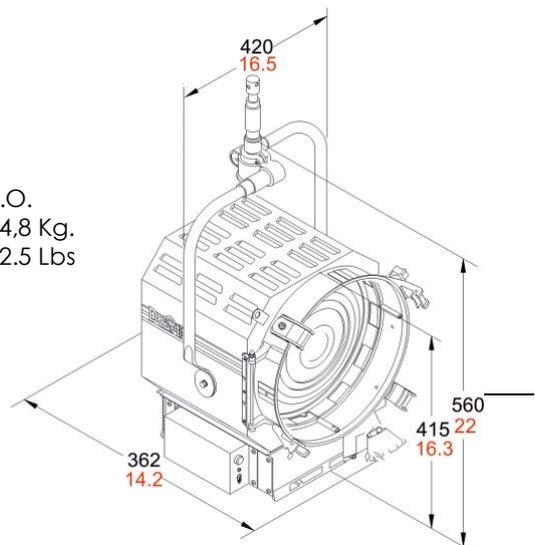
- Display of Correlated Colour Temperature
- Display of LED Case TEMPERATURE
- Display of DMX LEVEL
- DMX Address
- Display of local Potenciometer Level (when in local control or turned off DMX controller)
- Graphic Scale of Dimming

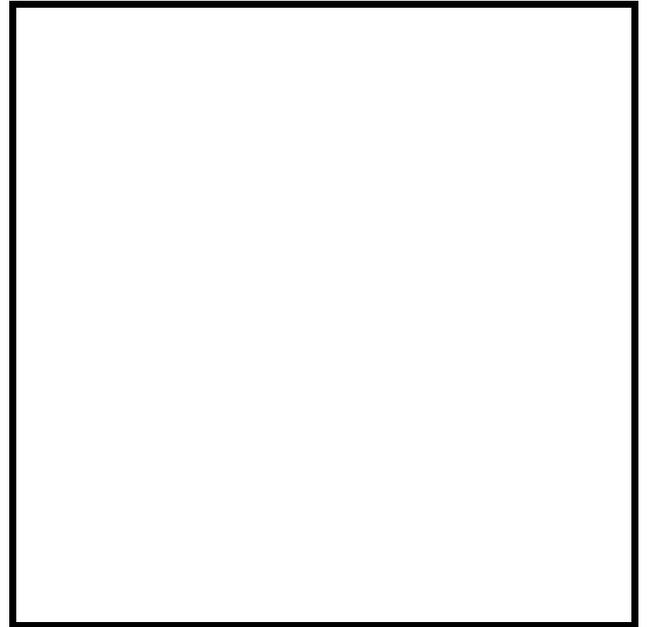
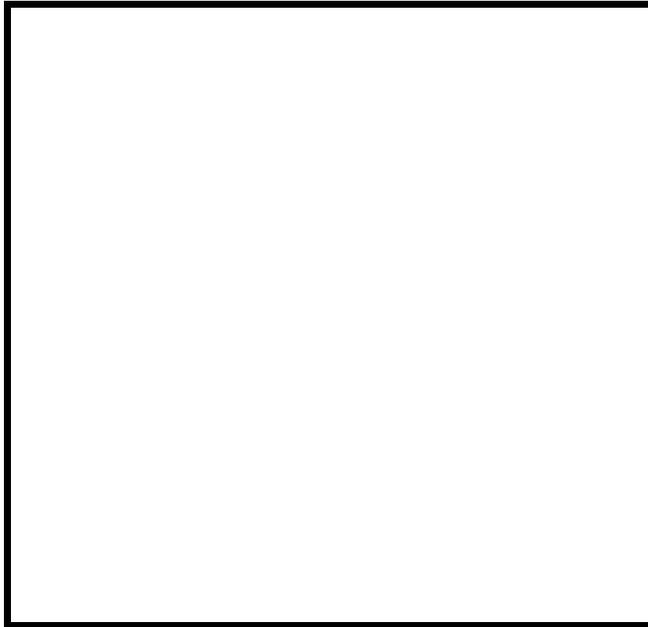
8. DIMENSIONS

M.O.
13.3 Kg.
29.07 Lbs



P.O.
14.8 Kg.
32.5 Lbs





9. PERIODIC INSPECTION & MAINTENANCE

This product requires very little routine maintenance, if any, but has special cleaning instructions: Disconnect fixture from power and allow it to cool for 10 min.

1. Vacuum or gently blow away any dust from fan blades and grills
2. Very gently clean the LED with Isopropyl alcohol.
3. Clean the lenses with a soft damp cloth.
4. Check the condition of the safety shield (see chapter: Installation Instructions) before every use.
5. Check Power supply cable and DMX control cable proper conditions

10. SAFETY STANDARDS

Europe: The product conforms the Applicable European Directives & Standards

- ⇒ Low Voltage Directive: 73/23/EEC (as amended by 93/68/EEC)
- ⇒ EMC Directive: 89/336/EEC (as amended by 92/31/EEC & by 93/68/EEC)
- ⇒ European Standards: EN 60598-2-17, EN 60598-1, EN 55015, EN 61547

Disposing of this product:

Help preserve the environment! Ensure that this product is recycled at the end of its life.

This product is in compliance with the RoHS and WEEE directives.
