

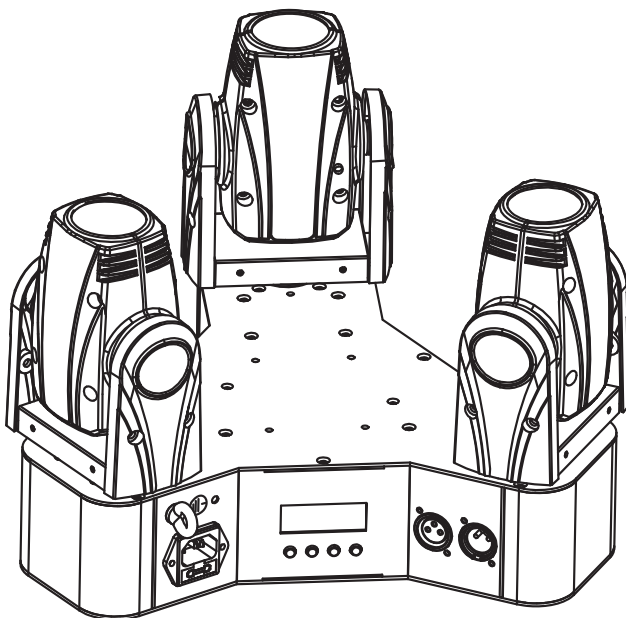


**soundSation**

# Axis III

3X10W 4IN1 CREE LED 3-HEAD MOVING LIGHT

---



## USER MANUAL

*Please read this manual carefully and proper take care of this manual.*



Dear customer,

First of all thanks for purchasing a SOUNDSATION® product. Our mission is to satisfy all possible needs of musical instrument, professional audio and lighting users offering a wide range of products using the latest technologies.

We hope you will be satisfied with this item and, if you want to collaborate, we are looking for a feedback from you about the operation of the product and possible improvements to introduce in the next future. Go to our website [www.soundsationmusic.com](http://www.soundsationmusic.com) and send an e-mail with your opinion, this will help us to build instruments ever closer to customer's real requirements.

One last thing: read this manual before using the instrument, an incorrect operation can cause damages to you and to the unit. Take care!

The SOUNDSATION Team

## TABLE OF CONTENTS

<b>1. INTRODUCTION.....</b>	<b>5</b>
<b>2. OVERVIEW.....</b>	<b>6</b>
<b>3. MAIN FEATURES .....</b>	<b>6</b>
<b>4. MAINS CONNECTIONS .....</b>	<b>6</b>
<b>5. DMX CONNECTION .....</b>	<b>7</b>
<b>6. FRONT &amp; REAR PANELS .....</b>	<b>8</b>
<b>7. DISPLAY OPERATION .....</b>	<b>8</b>
<b>8. DMX/Master/slave modes Operation .....</b>	<b>11</b>
<b>9. DMX CHANNEL MODES.....</b>	<b>12</b>
<b>10. TECHNICAL SPECIFICATIONS .....</b>	<b>13</b>
<b>11. WARRANTY AND SERVICE .....</b>	<b>14</b>
<b>12. WARNING.....</b>	<b>14</b>

## IMPORTANT SAFETY SYMBOLS



The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions, which may be sufficient to constitute the risk of electric shock or death.



The symbol is used in the service documentation to indicate that specific component shall be replaced only by the component specified in that documentation for safety reasons.



Protective grounding terminal



Alternating current/voltage



Hazardous live terminal

**ON**

Denotes the apparatus is turned on

**OFF**

Denotes the apparatus is turned off

**WARNING:**

Describes precautions that should be observed to prevent the danger of injury or death to the operator.

**CAUTION:**

Describes precautions that should be observed to prevent danger of the apparatus.



To protect the environment, please try to recycle the packing material as much as possible

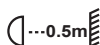


The projector is for indoor use only, IP20. Use only in dry locations.

Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other fluids, or metallic objects.



Don't throw this product away just as general trash, please deal with the product follow the abandon electronic product regulation in your country.



Locate the fixture in a well ventilated spot, away from any flammable materials and/or liquids. The fixture must be fixed at least 50cm from surrounding walls

## TAKING CARE OF YOUR PRODUCT

- ▶ Read these instructions
- ▶ Keep these instructions
- ▶ Heed all warning

- ▶ Follow all instructions

### **WATER / MOISTURE**

The apparatus should be protected from moisture and rain and can not be used near water; for example near a bathtub, a kitchen sink, a swimming pool, etc.

### **CONDENSATION**

To avoid condensation to be formed inside, allow this unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.

### **HEAT**

The apparatus should be located away from heat sources such as radiators, stoves or other appliances that produce heat. Don not use it when maximum ambient temperature is higher than 40°C.

### **VENTILATION**

Do not block areas of ventilation opening. Failure to do could result in fire. Always install according to the manufacturer's instructions.

### **OBJECT AND LIQUID ENTRY**

Objects do not fall into and liquids are not spilled into the inside of the apparatus for safety.

### **POWER CORD AND PLUG**

Protect power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two poles; a grounding-type plug has two poles and a third grounding terminal. The third prong is provided for your safety. If the provided plug does not fit into your outlet, refer to an electrician for replacement. Unplug the unit when it is not used for a longer time.

### **POWER SUPPLY**

In case of external power supply, the apparatus should be connected to the power supply only of the type as marked on the apparatus or described in the manual. Failure to do could result in damage to the product and possibly the user. Unplug this apparatus during lightning storms or when unused for long periods of time.

### **ELECTRICAL CONNECTION**

Always disconnect from the power source before servicing or replacing fuse and be sure to replace with same fuse size and type. Cut off power before moving, repairing and cleaning the unit. Improper electrical wiring may invalidate the product warranty.

To avoid electric shock, all fixtures must be connected to circuits with a suitable ground. Do not power on and power off the fixture in a short time.

### **DMX CONNECTION**

When use DMX controller, please make sure that there is no interference sources (e.g. intercom, high frequency radio waves and radiation source).

### **CLEANING**

Clean only with a dry cloth. Do not use any solvents such as benzene or alcohol.

### **SERVICING**

Do not implement any servicing other than those means described in the manual. Refer all servicing to qualified service personnel only. Only use accessories/attachments or parts recommended by the manufacturer.

## **I. INTRODUCTION**


Thank you for purchasing our AXIS III 3-head moving light. Enjoy your new equipment and make sure to read this manual carefully before operation!

This user manual is made to provide both an overview of controls, as well as information on how to use them. In order to help you to understand the connections between the various controls, we have gathered in groups according to their functions.

### **I.1. UNPACKING**

Your AXIS III was carefully packed to ensure safe transport. Despite this, we recommend you to carefully examine the package and its contents for any signs of physical damage, which can occur during transport. It is composed by following parts:

- ▶ 3-head moving light
- ▶ Power Cord
- ▶ D36mm adapter
- ▶ User manual

 **ATTENTION: Packaging bag is not a toy! Keep out of reach of children!!! Keep in a safe place the original packaging material for future use.**

If anything damaged during transport, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If the fixture must be returned to manufacturer, it is important that the fixture be returned in the original manufacturer box and packing. Please do not take any action without first contacting us.

### **I.2. Accessories**

SOUNDSATION can supply a wide range of quality accessories that you can use with your AXIS III 3-head moving light, like Cables, Splitters, DMX controllers, and a wide

range of other fixtures.

All products in our catalogue has been long tested with this device, so we recommend you to use Genuine SOUNDSATION Accessories and Parts.

Ask your SOUNDSATION dealer or check out our website [www.soundsationmusic.com](http://www.soundsationmusic.com) for any accessories you could need to ensure best performance of the product.

## 2. OVERVIEW

AXIS III 3-head moving light is part of a wider range of SOUNDSATION DMX intelligent LED Moving Head Lights. This lighting is compact and light weight and very easy to use. It is ideal for disco, clubs, parties and DJ moving shows. The unit can be controlled by any DMX controller or in standalone mode.

## 3. MAIN FEATURES

- ▶ 3 pieces of 10W RGBW 4in1 CREE high brightness LEDs
- ▶ LED lifetime between 80,000 and 100,000 hours
- ▶ 4 operation mode: DMX control, Master/slave, Auto run, Sound
- ▶ DMX Mode: 6CH, 9CH, 11CH and 21CH
- ▶ LED display, easy to control

### LUMINANCE

Red	3400 Lux @ 1m
Green	4900 Lux @ 1m
Blue	8200 Lux @ 1m
White	11000 Lux

## 4. MAINS CONNECTIONS

Connect the device to the mains with the supplied power cable. Please note that power voltage and frequency are the same as the marked voltage and frequency of device when connecting power.

Wire correspondence is as follow:

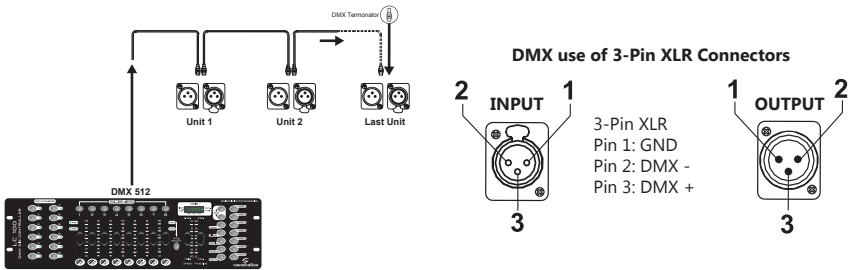
Cable (EU)	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	⊕

 **The earth must to be connected! Pay attention to the safety! Before taking into operation for the first time, the installation has to be approved by an**

expert.

## 5. DMX CONNECTION

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling.



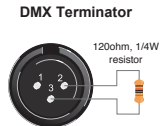
Connect fixtures using shielded 2-conductor twisted pair cable with 3-pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-), and pin 3 is Data positive (S+).

**CAUTION:** Wires must not come into contact with each other; otherwise the fixtures will not work at all, or will not work properly.

### 5.1. DMX Terminator

DMX is a resilient communication protocol, however errors still occasionally occur. In order to prevent electrical noise from disturbing and corrupting the DMX control signals, a good habit is to connect DMX output of last fixture in the chain to a DMX terminator, especially over long signal cable runs.

The DMX terminator is simply an XLR connector with a 120Ω (ohm), 1/4 Watt resistor connected across Signal (-) and Signal (+), respectively, pins 2 and 3, which is then plugged into the output socket on last projector in the chain. The connections are illustrated below.



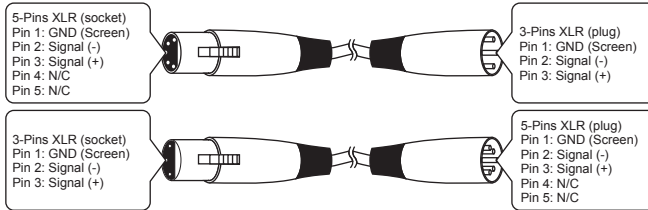
**Complimentary signal cable can transmits signals to 20 unit fixtures at most. Signal amplifier is a must to connect more fixtures.**

### 5.2.3-Pin vs 5-Pin DMX cables

DMX connection protocols used by controllers and fixtures manufacturers are not stan-

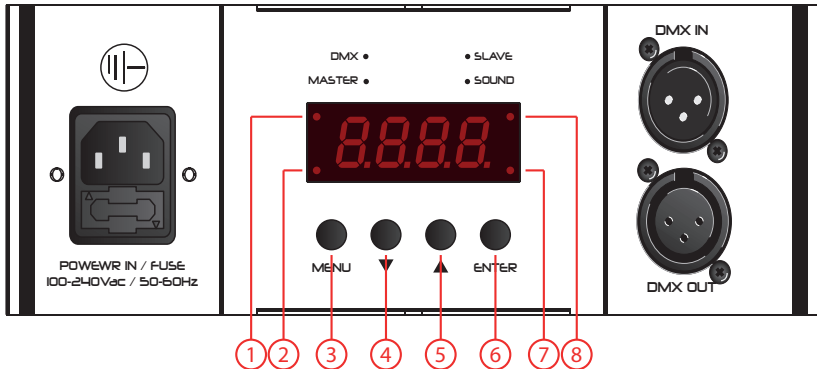
standardized around the world. However, two are the most common standards: 5-Pin XLR and 3-Pin XLR system. If you wish to connect AXIS III to a 5-Pin XLR input fixture, you need to use an adapter-cable or make it by yourself.

Following the wiring correspondence between 3-Pin and 5-Pin plug and socket standards



## 6. FRONT & REAR PANELS

Front panel is composed by a 4-digit LED display, four buttons MENU (3), DOWN (4), UP (5) ENTER (6), which help the user to adjust all functions described in the following paragraphs.



There are even 4 LEDs: DMX input monitor (1), Slave Mode (8), Master Mode (2), Sound Mode (7). Finally, there are following connections (starting from left side):

- ▶ AC MAINS Input connector with Fuse
- ▶ DMX IN & OUT: 3-poles XLR Male/Female connectors for DMX512 protocol communication

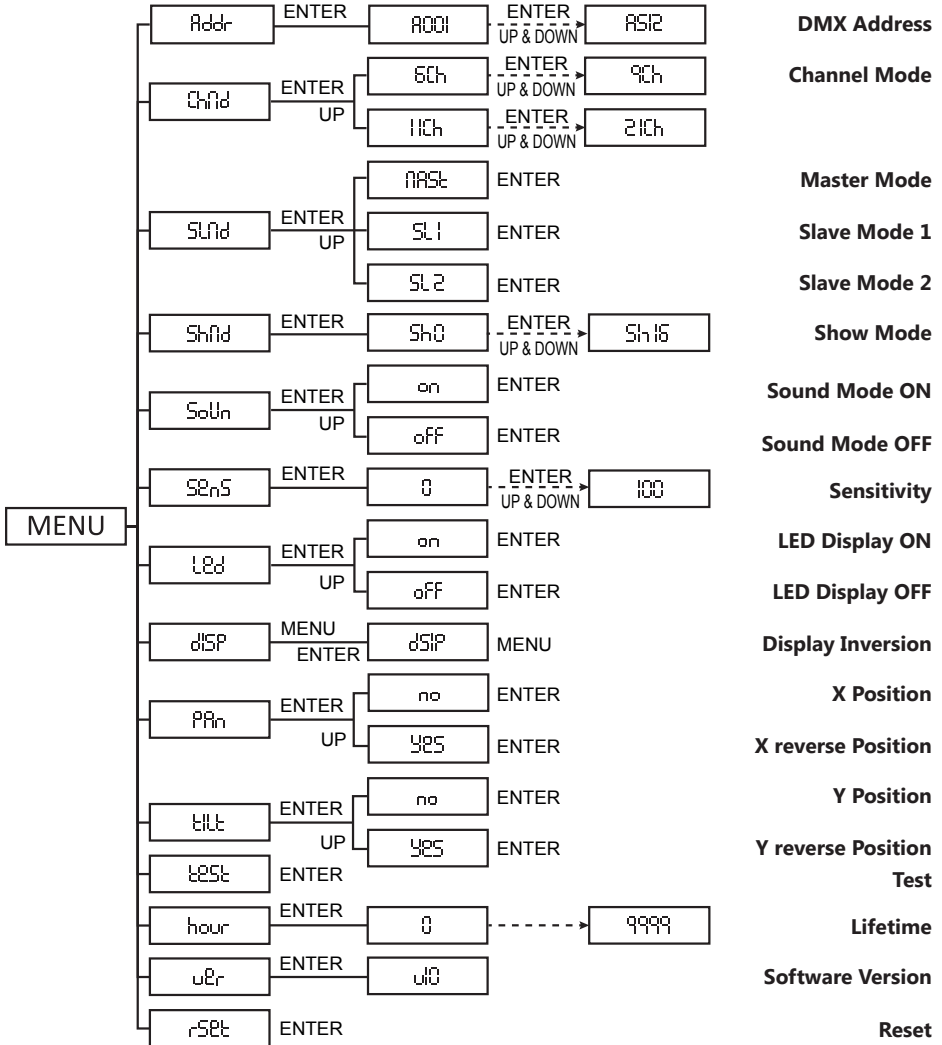
## 7. DISPLAY OPERATION

To access all functions of AXIS III, press **MENU** button, choose the desired function by scrolling the menu with **UP** and **DOWN** buttons. Press **ENTER** to choose it. LED display



flashes, then press **UP/DOWN** buttons to choose the desired value. Press **ENTER** button again to confirm, or wait for 10 seconds, or press the **MENU** long time to go back to main mode.

Main Function as follows:



**DMX512 ADDRESS SETTING**

Choose **Addr** and press **ENTER** button to confirm. Press **UP/DOWN** button to set DMX address, and press **ENTER** to save. Wait for 10 seconds or press **MENU** long time to

return to main menu.

### **CHANNEL MODE**

Choose ከብቻ and press **ENTER** button to confirm. Press **UP/DOWN** to choose the desired channel mode, like ፩ (6 channels), or ፪ (9 channels), or ፫ (11 channels), or ፬ (21 channels) mode. Press **ENTER** button to save. Wait for 10 seconds or press **MENU** long time to return to main menu.

### **SLAVE MODE**

Choose ስራ and press **ENTER** button to enter ስራ (Master) or ስራ 1 (slave 1) or ስራ 2 (slave 2) mode. Press **ENTER** button to save. Wait for 10 seconds or press **MENU** long time to return to main menu.

### **SHOW MODE**

Choose ስራ and press **ENTER** button to confirm. Press **UP/DOWN** to choose ስራ 0 (random show) or ስራ 1 (Show 1) or ስራ 2 (Show 2) or ... ስራ 1፩ (Show 16), and press **ENTER** button to save. Wait for 10 seconds or press **MENU** long time to return to main menu.

### **SOUND CONTROL**

Choose ስራ and press **ENTER** button to confirm. Press **UP/DOWN** button to choose ስራ or ስራ, then press **ENTER** to save. Wait for 10 seconds or press **MENU** long time to return to main menu.

### **SOUND CONTROL SENSITIVITY**

Choose ስራ and press **ENTER** button to confirm. Press **UP/DOWN** to adjust the sensitivity value from 0 to 100. After chosen, press **ENTER** button to save. Wait for 10 seconds or press **MENU** long time to return to main menu.

### **LED DISPLAY**

Choose ስራ and press **ENTER** button to confirm. Press **UP/DOWN** buttons to choose ስራ (light up) or ስራ (light off) mode. After chosen, press **ENTER** button to save. Wait for 10 seconds or press **MENU** long time to return to main menu.

### **LED DISPLAY INVERSION**

Choose ስራ and press **ENTER** button to confirm, then **UP/DOWN** to choose ስራ (display inverted). After chosen, press **MENU** to enter the mode. Wait for 10 seconds or press **MENU** long time to return to main menu.

### **PAN DIRECTION**

Choose ስራ and press **ENTER** button to confirm. Press **UP/DOWN** to choose ስራ (Pan normal direction) or ስራ (Pan reverse position). After chosen, press **ENTER** button to save. Wait for 10 seconds or press **MENU** long time to return to main menu.

### TILT DIRECTION

Choose **⬆** and press **ENTER** button to confirm. Press **UP/DOWN** to chose **↔** (Tilt normal direction) or **⬆** (Tilt reverse position). After chosen, press **ENTER** button to save. Wait for 10 seconds or press **MENU** long time to return to main menu.

### TEST

Press **MENU** button and scroll till **TEST** appears. Then press **ENTER** button; led display will flash. The fixture will run a built in program to test all functions. Press **MENU** to back to main menu.

### WORKING TIME

Press **MENU** button to **hour**, then press **ENTER** button. The led display will show current working time, press **MENU** back to main menu.

### FIRMWARE VERSION

Press **MENU** button to **ver**, then press **ENTER** button. The led display will show firmware version, press **MENU** back to main menu.

### AUTO RESET FUNCTION

Press **MENU** button to **reset** and press **ENTER** button to enter auto reset function.

## 8. DMX/Master/slave modes Operation

### 8.1. Master/Slave mode

Connect two or more lights in series. The first light controls the others in auto show, sound control show, and so on. This mode is specifically intended for instant show setup. First light must be set as master light. Show mode will be set as **5h 0** (Random show), or **5h 1** (Show 1) ... or **5h 16** (show 16). All other fixtures will be set all together as **5L 1** (Slave 1, normal) or **5L 2** (Slave 2, two light show). Slave LED will light up. If there are no incoming DMX signals on master fixture, master mode LED will light up, and sound control LED will flash according to music. All other lights will not work in slave mode.

### 8.2. Two Light Operation

In case of two slave lights, slave 1 (**5L 1**) runs same as master light; slave 2 (**5L 2**) runs against master light. If there are just two lights, you could set the second light as slave light **5L 2** for better show.

### 8.3. DMX Controller

If a group of AXIS III is controlled by a DMX controller, then you need to set the DMX

address code to control the light. The address code value ranges from 1 to 512. All fixtures in the same network must be set to same DMX address. Press **MENU** button and select **Addr** menu. Press **ENTER** button, address will flash. Use **UP /DOWN** to select DMX512 address. After chosen, press **ENTER** button to confirm (address stops flashing). If you wait for 8 seconds or more without changing value or pressing **ENTER** to confirm a change, the display will return to **Addr** menu without changing DMX address.

## 9. DMX CHANNEL MODES

### 6-CH MODE

Channel	Value	Function
CH1	000-255	Full dimmer, with red dimmer 1-100%
CH2	000-255	Strobe, slow to fast
CH3	000-007	No function
	008-022	Show mode 1
	023-037	Show mode 2
	038-052	Show mode 3
	053-067	Show mode 4
	068-082	Show mode 5
	083-097	Show mode 6
	098-112	Show mode 7
	113-127	Show mode 8
	128-142	Show mode 9
	143-157	Show mode 10
	158-172	Show mode 11
	173-187	Show mode 12
	188-202	Show mode 13
203-217	Show mode 14	
218-232	Show mode 15	
233-247	Show mode 16	
248-255	Sound control	
CH4	000-255	Show mode speed, slow to fast
CH5	000-014	LED color change
	015-255	Color fade
CH6	000-255	Color fade speed, slow to fast

### 9-CH / 11-CH / 21-CH MODE

9CH	11CH	21CH	Value	Function
	1	1	000-255	Full dimmer 0-100%
	2	2	000-255	Strobe, slow to fast
1	3	3	000-255	First head, Pan position
		4	000-255	First head, Pan fine
2	4	5	000-255	First head, Tilt position
		6	000-255	First head, Tilt fine

		7	000-255	First head driver speed, fast to slow		
3	5	8	000-007	Blackout	008-024	R
			025-041	G	042-057	B
			058-074	W	075-090	R + G
			091-107	R + B	108-123	R + W
			124-140	G + B	141-156	G + W
			157-173	B + W	174-189	R + G + B
			190-206	R + G + W	207-222	R + B + W
			223-239	G + B + W	240-255	R + G + B + W
4	6	9	000-255	Second head, Pan position		
		10	000-255	Second head, Pan fine		
5	7	11	000-255	Second head, Tilt position		
		12	000-255	Second head, Tilt fine		
		13	000-255	Second head driver speed, fast to slow		
6	8	14	000-255	Second head color change (see CH-3/5/8)		
7	9	15	000-255	Third head, Pan position		
		16	000-255	Third head, Pan fine		
8	10	17	000-255	Third head, Tilt position		
		18	000-255	Third head, Tilt fine		
		19	000-255	Third head driver speed, fast to slow		
9	11	20	000-255	Third head color change (see CH-3/5/8)		
		21	000-199	No function		
			200-209	Reset		
			210-240	No function		
			241-255	Sound mode		

## 10. TECHNICAL SPECIFICATIONS

Light Source	3 pieces of 10W RGBW 4in1 CREE high brightness LEDs
LED lifetime	Between 80,000 and 100,000 hours
Beam Angle	8°
Luminance (Lux @ 1m)	Red 9000, Green 14000, Blue 20000, White 26000
PAN	540°, 16bit fine
TILT	270°, 16 bit fine
Operation mode	DMX control, Master/slave, Auto run, Sound
DMX Mode	6CH, 9CH, 11CH and 21CH
Dimmer	Electronic Linear Dimming 0-100%
Voltage	AC 100-240V / 50~60Hz
Power consumption	50W
Fuse	F3A L250V (5x20mm)
Fixture Size (LxHxD)	34 x 25 x 34 cm
Fixture Weight	4 Kg
Packing Size (LxHxD)	42 x 30 x 42 cm
Packing Weight	5.15 Kg

Our products are subject to change. Modifications to technical features remain subject to change without notice.

## II. WARRANTY AND SERVICE

All SOUNDSATION products feature a limited two-year warranty. This two-year warranty is specific to the date of purchase as shown on your purchase receipt.

The following cases/components are not covered from the above warranty:

- Any accessories supplied with the product
- Improper use
- Fault due to wear and tear
- Any modification of the product effected by the user or a third party

SOUNDSATION shall satisfy the warranty obligations by remedying any material or manufacturing faults free of charge at SOUNDSATION's discretion either by repair or by exchanging individual parts or the entire appliance. Any defective parts removed from a product during the course of a warranty claim shall become the property of SOUNDSATION.

While under warranty period, defective products may be returned to your local SOUNDSATION dealer together with original proof of purchase. To avoid any damages in transit, please use the original packaging if available. Alternatively you can send the product to SOUNDSATION SERVICE CENTER – Via Enzo Ferrari , 10 – 62017 Porto Recanati - Italy . In order to send a product to service center you need an RMA number. Shipping charges have to be covered by the owner of the product.

For further information please visit [www.soundsationmusic.com](http://www.soundsationmusic.com)

## 12. WARNING

PLEASE READ CAREFULLY – EU and EEA (Norway, Iceland and Liechtenstein) only



This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2202/96/EC) and your national law.

This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (WEEE).

Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources.

For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or your household waste disposal service.



This product is imported in EU by  
Questo prodotto viene importato nella UE da  
FRENEXPORT SPA – Via Enzo Ferrari, 10 - 62017 Porto Recanati - Italy

[WWW.SOUNDSATIONMUSIC.COM](http://WWW.SOUNDSATIONMUSIC.COM)

Soundsation® is a registered trademark of FRENEXPORT SPA - Italy  
Soundsation® è un marchio di fabbrica registrato della FRENEXPORT SPA - Italy



[WWW.SOUNDSATIONMUSIC.COM](http://WWW.SOUNDSATIONMUSIC.COM)