



# sound<sup>s</sup>ation

## USER'S MANUAL

---

### MHL-230

BEAM 230 (7R) MOVING HEAD LIGHT



*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 and professional audio 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. GETTING STARTED .....</b>	<b>4</b>
1.1 Important Safety Symbols .....	4
1.2 Important Safety Instructions .....	4
1.3 Important Notes .....	6
1.4 Maintenance and Cleaning .....	8
1.3 Before You Start .....	10
1.4 Introduction .....	10
<b>2. Installation .....</b>	<b>11</b>
2.1 Machine Connection .....	13
2.2 Connection with the Mains .....	14
<b>3. DMX Channels .....</b>	<b>15</b>
<b>4. Addressing .....</b>	<b>19</b>
<b>5. Technical Specifications .....</b>	<b>20</b>
<b>6. WARRANTY AND SERVICE .....</b>	<b>22</b>
<b>7. WARNING .....</b>	<b>23</b>

## I. GETTING STARTED

### I.1 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.

### I.2 Important Safety Instructions

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

#### **WATER / MOISTURE**

This lighting is intended to indoor use only. To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable,

explosive or corrosive materials surrounded in 10 meters while operating.

### **HEAT**

The apparatus should be located away from heat sources such as radiators, stoves or other appliances that produce heat. Fixture may carry high heat, do not aim at objective exceeding 2 minutes.

### **VENTILATION**

The unit must be installed in a location with adequate ventilation, at least 5m away from adjacent surfaces. Be sure that no ventilation slots are blocked.

### **OBJECT AND LIQUID ENTRY**

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

### **INSTALLATION**

Always secure fixture using a safety chain and carrying handles. Never carry the fixture by its cord.

### **POWER CORD AND PLUG**

Protect the 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.

### **POWER SUPPLY**

Always make sure that you are connecting to the proper voltage and the line voltage not higher than stated on the decal or rear panel of the fixture. Unplug this apparatus during lightning storms or when unused for long periods of time.

### **FUSE**

To prevent the risk of fire and damaging the unit, please use only of the recommended fuse type as described in the manual. Before replacing the fuse, make sure the unit turned off and disconnected from the AC outlet.

### **ELECTRICAL CONNECTION**

Always disconnect from the power source before servicing or replacing fuse/lamp and be sure to replace with same fuse/lamp size and type. Cut off power before moving, repairing and cleaning the machine. 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 benzol or alcohol.

**SERVICING**

In case of failure or malfunction occurred, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Buy the same spare parts/components from manufacturer directly.

Any damage that caused by violating this manual is out of insurance, our company will not take the responsibility.

**WARNING**

Avoid direct eye exposure to the light source while it is on.

**1.3 Important Notes**

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

This device has left our premises in absolutely 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 STATEMENT**

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 drastic temperature fluctuation, (e.g. after transportation), do not open the light at once. The agglomeration of vapor is likely destroying your product. Do not open the product until it reach normal temperature.
- ▶ This device falls under protection class 1. The power plug must only be plugged into a protection class 1 outlet. Never let the power cord come into contact with other cables! Handle the power cord all connections with the mains with particular caution!
- ▶ Make sure that the available voltage is not higher than stated on the rear panel
- ▶ Make sure that the power-cord is never crimped or damaged by sharp

edges. Check the device and the power cord by the plug. Never pull out the plug by tugging the power-cord.

- ▶ 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 the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- ▶ **CAUTION!** During the operation, the housing becomes very hot.
- ▶ Never frequently open/close the lighting for reducing the life of the lamp
- ▶ Never look directly into the light source, as sensitive persons may suffer an epileptic shock (especially meat for epileptics)!
- ▶ Damages caused by non-observance are not subject to warranty.
- ▶ Keep away children and amateurs!

#### **OPERATING DETERMINATIONS:**

- ▶ This device is a moving-head spot for creating decorative effects. And was designed for indoor use only.
- ▶ This device is designed for professional use, for example, on stages, in discotheques, and theaters, etc.
- ▶ Lighting effects are not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- ▶ Do not shake the device. Avoid brute force when installing or operating the device.
- ▶ Never lift the fixture by holding it at the projector head, as the mechanic may be damaged. Always hold the fixture at the transport handles.
- ▶ When choosing the installation spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be cables lying around. Make sure the safety of others and yours.
- ▶ Always fix the fixture with an appropriate safety-rope. Fix the safety rope at the correct holes only.
- ▶ Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- ▶ The lamp must never be ignited if the objective lens or any housing cover is open, as discharge lamps may expose and emit a high ultraviolet, which may cause burn.
- ▶ The maximum ambient temperature must never be exceeded.

#### **CAUTION!**

The lens has to be replaced when it is obviously damaged, so that its function is impaired, e.g. dug to cracks or deep scratches.

- ▶ Operate the device only after you have familiarized with its functions. Persons not qualified are not allowed to operate the device. Most damages are

the result of unprofessional operation.

**CAUTION!**

The lamp has to be replaced when it is damaged or deformed due to the heat!

- ▶ Please use the original packing if the device is to be transported.
- ▶ Please consider that unauthorized modifications on the device are forbidden due to safety reasons.
- ▶ Never remove the serial bar code from the device as this would make the guarantee void.
- ▶ If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, lamp explosion, crash.

In case of failure or malfunction occurred, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Buy the same spare parts/components from manufacturer directly.

## 1.4 Maintenance and Cleaning

The operator must make sure that correlative safety equipment and an expert inspects machine's technical installations after every four years in the course of an acceptance test.

The operator must make sure that correlative safety equipment and machine's technical installations are inspected by a skilled technician once a year.

The following points need to be considered during the inspection:

1. All screws used for installing the devices have to be tightly connected and must not be corroded.
2. There cannot be any deformations on housing, fixations and installation spots (ceiling, suspension, trussing).
3. Mechanically moved parts like axles, eyes and others must not show any traces of wearing (e.g. material abrading or damages) and must not reate with unbalances.
4. The electric power supply cables must not show any damages, material fatigue (e.g. porous cables) 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.



**DANGER! HIGH POWER! DANGER TO LIFE!****DISCONNECT FROM MAINS BEFORE STARTING MAINTENANCE OPERATION!**

- ▶ We recommend an frequent cleaning of the device. Please use moist flax to clean. Never use alcohol or solvents.
- ▶ **CAUTION!** The lens has to be replaced when it is obviously damaged, so that its function is impaired, e.g. due to cracks or deep scratches!
- ▶ The objective lens will require weekly cleaning as smoke fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.
- ▶ The gobos may be cleaned with a soft brush. The interior of the fixture should be cleaned at least annually using a vacuum cleaner or an air-jet.
- ▶ The dichroic color filters, the gobo-wheel and the internal lenses should be cleaned monthly.
- ▶ To ensure a proper function of the gobo-wheel, we recommend lubrication in six-month intervals. The quantity of oil must not be excessive in order to avoid that oil runs out when the gobo-wheel rotates.
- ▶ There are no serviceable parts inside the device except for the lamp and the fuse. Maintenance and service operations are only to be carried out by authorized dealers. Please refer to the “inserting and exchanging lamp” chapter in this manual.

**REPLACING THE FUSE**

If the lamp burns out, the fine-wire fuse of the device might fuse, too. Only replace th fuse of same type and rating. Before replacing the fuse, unplug mains lead.

**Procedure:**

STEP 1: Unscrew the fuse holder on the rear panel with a fitting screwdriver from the housing (anti-clockwise).

STEP 2: Remove the old fuse from the fuse holder.

STEP 3: Install the new fuse in the fuse holder.

STEP 4: Replace the fuse holder.

- ▶ Should you need any spare parts, please use genuine parts.
- ▶ If the power supply cable of this device becomes damaged, it has to be replaced by authorized dealers only in order to avoid hazards.
- ▶ Should you have further questions, please contact your dealer.

We hope you will enjoy your lighting. We can assure you that you will enjoy this device for years if you follow the instructions given in this manual.

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

## 1.3 Before You Start


### 1.3.1 UNPACKING

Carefully unpack the box and check the contents to ensure that all parts are present and in good conditions.

If anything damaged during transit, 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.

### 1.3.2 GETTING STARTED

Make sure there is enough space around the unit for proper ventilation and prevent overheating; do not place the unit on top of hot devices such as radiators or power amplifiers. The console is connected to mains through the supplied cable. The product meets the required safety standards. Blown fuses must be replaced with fuses of the same type and specification.

 **Make sure that all units must be properly grounded. For your safety, you should never remove any ground connector from electrical devices or power cables, or make them inoperative.**

Our products are subject to a process of continual further development. Therefore modifications to the technical features remain subject to change without further notice.

## 1.4 Introduction

Thank you for choosing our moving head light. You acquired a versatile, powerful and intelligent lighting-effect. Please unpack your casing and make sure that there are no damages caused by transportation. Should there be any, please refer to your local dealer or our factory and do not take the device into operation.

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

### **MULTI D-FUNCTION MOVING HEAD LIGHT TRAIT:**

- ▶ Color system: One color wheel with fourteen kinds of different color diachronic filters plus white

- ▶ One gobo wheel with seventeen rotating metal gobos and one glass gobo.
- ▶ High speed rotating 8-facet prism
- ▶ Combined shutter/dimmer unit allowing very smooth dimming and strobe effect 1-10 flash/second
- ▶ The lighting of the stock size
- ▶ Addressing, special functions setting, effects calibration via control panel with 4-digit LED display
- ▶ Readout fixture and lamp usage, receiving DMX values, temperature, etc
- ▶ Macro-function for rotating gobo/rotating prism combinations
- ▶ Black out while the light head moving or gobo color changing
- ▶ Remote reset function
- ▶ Intelligent control panel with 4-digit LED display
- ▶ Silent fans cooling
- ▶ 16/20 DMX channels
- ▶ Pan movement rang 530°, Tilt movement rang 280°
- ▶ High luminous-efficiency parabolic mirror and double condenser system
- ▶ Mechanical multi-step focus
- ▶ Focus is controllable through the mechanization of DMX
- ▶ Preprogrammed changeable or stochastic grating pulse effect
- ▶ All lenses are anti-reflection coated
- ▶ 9 high quality stepper-motors for smooth movement
- ▶ Self-resettable thermal-fuse
- ▶ For Osram 7R 230W lamp

## 2. Installation

**DANGER!** Install the lamp with the device switched off or unplug from mains!

### **FITTING/EXCHANGING THE LAMP:**

Open the small lamp cover by loosening 3 screws, open the small back cover at the back panel from the lighting, and gently pull the lamp out. If you want to change the lamp, remove the old lamp from the socket.

Do not install the lamp with a higher wattage! If so, the lamp will generate high temperatures, and the device is not designed for that case.

Damages caused by non-observance are not subject to warranty. Please follow the lamp manufacturer's announcement! Do not touch the glass bald bare handed during the installation. Make sure that the lamp is installed tightly into the lamp holder. Reinstall the top cover of the head and tighten those 4 screws.

**DO NOT OPERATE THE FIXTURE WITH OPERATE HOUSING-COVER!**

The brightness of the lighting has been aligned at the factory. Due to the difference between lamps, fine adjusted may improve light performance. Strike the lighting, open the grating and the diaphragm, adjust the brightness to 100%, then focus the light on a flat surface (e.g. wall). Through using three "A/B/C" adjusting screws, you can make the light focus on the hot spot (the brightest of the light line), Rotate one screw once to drag the hot spot through projectile shadow in the direction of diagonal. If you cannot find the hot spot, adjust the lamp until the light line is even. Through adjusting three "A/B/C" screws at the same time and deasil 1/4 rotate until the light line distribute equably then pull the lamp into, doing so can reduce hot spot. If the light in the edge is brighter than in the center, or the light output is very low, it means the lamp is too back at the reflecting shelf. Through adjusting three "A/B/C" screws at the same time and deasil 1/4 rotate to push out the lamp until the light is bright and distribute equably.

**RIGGING AND HOOK:**

- ▶ Pay attention to the safety!
- ▶ Please respectively consider the EN 60598-2-17 and the national standard during the installation - The authorized dealer must only carry out the installation.
- ▶ The installation of the projectile shelf has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming demolition.
- ▶ The installation must always be secured with a secondary safety attachment, e.g.an appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.
- ▶ When rigging, derigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.
- ▶ The operator has to make sure that the safety measure and the machine's technical installation is approved by an expert before taking into operator for the first time and after changes before taking into operation anther time.
- ▶ The operator has to make sure that an expert approves safety measure and the machine's technical installation after every four years in the course of an acceptance test.
- ▶ The operator has to make sure that a technician approves the relative safety measure and the machine's technical installation once a year.
- ▶ Procedure: The projectile shelf should be installed outside areas where persons may walk by or be seated.

**IMPORTANT MATTER!**

Overhead rigging requires extensive experience, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury or property loss.

- ▶ The projectile shelf has to be installed out of the reach of people.
- ▶ If the projectile shelf shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The projectile shelf must never be fixed swinging freely in the room.

**CAUTION!**

Projectile shelf may cause severe injurers when crashing down. If you have doubted concerning the safety of a possible installation, do not install the projectile shelf!

- ▶ Before rigging make sure that the installation area can hold a minimum point load of 10 times the projector's weight.
- ▶ **DANGER OF FIRE!** When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) within a distance of minimum 0.5 meter.

**CAUTION!**

Use two appropriate clamps to rig the fixture on the truss. Follow the instructions mentioned at the bottom of the base. Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

- ▶ The moving head light can be placed directly on the floor or rigged in any orientation on a truss without altering its operation character rustics. There are two possibilities to fix the base of the lighting, Use the rigging clamp to merge M10 or M12 screw—please check the base. For overhead use, always install a safety rope that can hold at least 10 times the weight of the fixture. You must only use safety rope with screw on carabines.

## 2.1 Machine Connection

### 2.3.1 CABLE CONNECTORS

Cables must have a male XLR connector on one end and a female XLR connector on the other end.



**DMX-512 CONNECTION/CONNECTION BETWEEN FIXTURES**

The wires must not come into contact with each other; otherwise the fixtures will not work at all, or will not work properly.

Only use a stereo-shielded cable and 3-pin XLR-plugs and connectors in order to controller with the fixture or one fixture with another.

**OCCUPATION OF THE XLR CONNECTION**

DMX-output                      DMX-input  
 XLR mounting-socket    XLR mounting-plug:

- 1-Ground
- 2-Signal (-)
- 3-Signal (+)

If you are using the recommended controllers, you can connect the DMX-output of the controller directly with the DMX-input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-output, you need to use adapter-cables.

**BUILDING A SERIAL DMX CHAIN**

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

**CAUTION:** At the last fixture, the DMX cable has to be terminated with a terminator. Solder a 120-ohm resistor between Signal (-) and (+) into a 3-pin XLR-plug it in the DMX-output of the last fixture.

**3. DMX Channels**

**16 DMX CHANNEL DESCRIPTION:**

DMX Channel	Function	Data	Function Description
CH1	Color Wheel	0--4	White
		5--8	White, red
		9--12	Red
		13--17	Red, yellow
		18--21	Yellow
		22--25	Yellow, blue
		26--29	Blue
		30--34	Blue, green

		35--38	Green
		39--42	Green, deep yellow
		43--46	Deep yellow
		47--51	Deep yellow, magenta
		52--55	Magenta
		56--59	Magenta, UV
		60--63	UV
		64--68	UV, CTO
		69--72	CTO
		73--76	CTO, yellow green
		77--81	Yellow green
		82--85	Yellow green, brown yellow
		86--89	Brown yellow
		90--93	Brown yellow, cyan
		94--98	Cyan
		99--102	Cyan, amaranth
		103--106	Amaranth
		107--110	Amaranth, light bluish violet
		111--115	Light bluish violet
		116--119	Light bluish violet, CTB
		120--123	CTB
		124--127	CTB, white
		128--192	Clockwise rotate, form fast to slow
		193--255	Anti-clockwise rotate, form slow to fast



CH2	Strobe	0--2	No brightness
		3--103	Form slow to fast
		104--107	Strobe stop
		108--207	Form slow to fast, strobe effects
		208--212	Strobe stop
		213--251	Strobe random
		252--255	Strobe stop
CH3	Dimmer	0--255	From dark to bright
CH4	Gobo Wheel	0--3	White
		4--7	Gobo1
		8--11	Gobo2
		12--15	Gobo3
		16--19	Gobo4
		20--23	Gobo5
		24--27	Gobo6
		28--31	Gobo7
		32--35	Gobo8
		36--39	Gobo9
		40--43	Gobo10
		44--47	Gobo11
		48--51	Gobo12
		52--55	Gobo13
		56--59	Gobo14
		60--63	Gobo15
		64--67	Gobo16
		68--71	Gobo17
72--117	Clockwise rotate, form fast to slow		
118--159	Anti-clockwise rotate, form fast to slow		
160--166	Gobo1 shaking		

		167--172	Gobo2 shaking
		173--179	Gobo3 shaking
		180--185	Gobo4 shaking
		186--192	Gobo5 shaking
		193--198	Gobo6 shaking
		199--204	Gobo7 shaking
		205--211	Gobo8 shaking
		212--217	Gobo9 shaking
		218--223	Gobo10 shaking
		224--230	Gobo11 shaking
		231--236	Gobo12 shaking
		237--242	Gobo13 shaking
		243--245	Gobo14 shaking
		246--249	Gobo15 shaking
		250--255	Gobo16 shaking
		CH5	Eight-Facet Prism
128--255	Eight-facet prism		
CH6	Prism Rotation	0--7	No function
		8--127	Index
		128--192	Anti-clockwise rotate, form fast to slow
		193--255	Clockwise rotate, form slow to fast
CH7	Macro	0--255	Macro
CH8	Frost	0--127	No function
		128--255	Frost
CH9	Focus	0--255	Focus
CH10	Pan	0--255	Rotate 450 degrees
CH11	Pan Fine	0--255	0--2.1 degrees
CH12	Tilt	0--255	Rotate 270 degrees
CH13	Tilt Fine	0--255	0--1.0 degrees
CH14	Pan / Tilt Speed	0--255	Form fast to slow

CH15	Reset	255	Renew factory state
CH16	Lamp Off / Lamp On	0--62	No function
		63--65	Lamp off
		178--180	Lamp on

## 4. Addressing

The control board on the front side of the base allows you to assign the DMX fixture the address, which is defined as the first channel. For example, if you set the address to channel 5, this lighting will use the channel 5 to 16 for control


Please be sure that you do not have any overlapping channels in order to control each lighting correctly and independently from any other fixture on the DMX data link.

### ADDRESSING SETTING:

1. Turn on the moving head, wait till finishing the reset (RST flashes on the display).
2. The main menu is accessed by pressing the [MODE] key –press this one until the display shows message“R001”. Press [ENTER] to confirm.
3. Use the [UP] and [DOWN] keys to select the required address.
4. Press [ENTER] to confirm or press [MODE] to cancel.

### CONTROLLING:

After having addressed the lighting, you may now start operating these via your lighting controller.

 **Note: After switching on, the lighting will automatically detect whether DMX512 signal is received or not. If there is no signal received at the DMX input, the display will not flash.**

This situation can occur if:

- The three-pin XLR plug (cable with DMX signal from controller) is not connected with the input of the moving head light.
- The controller is switched off or defective, if the cable or connector is defective or the signal wires are swap in the input connector.

 **Note: It's necessary to insert the XLR termination plug (with 120 Ohm) in the link in order to ensure proper transmission on the DMX data link.**

## 5. Technical Specifications

Power Supply:	Europe voltage: 208/230/240V AC, 50/60HZ Fuse: T5A, 250V The USA voltage: 100/115/208/230V AC, 50/60HZ Lamp: Osram 7R 230W Fuse: T10A Power consumption: 300W
Optical System:	High luminous efficiency parabolic mirror and double condenser system All lenses are anti-reflection coated
Color:	fourteen different colors, interchangeable dichroic filters plus white, color wheel with variable rotation speed
Gobo Rotation:	seventeen interchangeable gobos plus white: seventeen metal gobos, one glass gobo
Strobe	Strobe effect with variable speed (1-10 flashes per second)
Dimmer:	Smooth dimmer from 0-100%
Prism:	8-facet prism rotating in both directions at different speed
Focus:	Can be controlled through DMX Mechanical multi-step focus with three different angles (15 degree, 18 degree and 22 degree).
Shutter:	Mechanical (non step can be adjusted) shutter are suitable for different line angles
Effect:	Seven big prism gobos Preprogrammed and changing shutter pulse effect
Motor:	9 high quality stepping-motor controlled by microprocessors
Electronics:	Digital serial input DMX512 Pan movement range 530 degree Tilt movement range 270 degree
Rigging:	Stands directly on the floor Use two clamps to install Two truss orientation Safety chain/cord attachment point
Temperature:	Maximum ambient temperature ta: 40 degree Maximum housing temperature tb: steady state: 80 degree

**PHYSICAL PARAMETERS**

Dimensions and Weight:	Length of base (including handles): 470 mm Width: 330 mm Height (head horizontal): 440 mm Weight (net weight): 16 kg Shipping weight: 18 kg
------------------------	---

*Our company reserves the right to change technical parameters without notice.*

## 6. 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)

## 7. 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  
FRENEXPOR SPA – Via Enzo Ferrari, 10 - 62017 Porto Recanati - Italy

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

Soundsation® is a registered trademark of FRENEXPOR SPA - Italy



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