

WARRANTY & 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.soundsationmus



MHL-60 MKII ZOOM



USER MANUAL

PRO-LIGHTING



Dear customer,

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

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 for possible improvements to introduce in the next future. Go to our website 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

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. Contents and images shown on this manual can be changed without any notice. Please visit our website www.soundsationmusic.com to check latest version.

DESIGNED IN ITALY BY SOUNDSATION®



MADE IN CHINA

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Specification:

Voltage : AC110V-240V

Frequency : 50/60Hz

Rated Power: 100W

LED: 60W RGBW 4IN1

Strobe: 1-10 times / second

PAN: 540° (Electronic correction)

TILT: 220° (Electronic correction)

Beam Angle: 2.5°-60°

Control : DMX512

Channel: 15 channels

Control Mode : DMX/sound active/auto/ master-slave/manual

Level of Protection: IP20

Stock: Clean and Dry place

Running Temp.: 0°C~35°C

Net Weight: 3.8kg

Size: 201.4X196X297MM

GENERAL

To prevent possible damages read the following list of actions:

- Do not place the product in wet or dirty environments.
- Do not remove the protective coverings.
- Do not cover any of the product's ventilation holes.
- Air must circulate freely around the product.
- Do not set the product on a surface with excessive vibration.
- Do not expose the product to high electro-magnetic interference.
- Do not expose the product to heat, cold, wet in improper way in respect to its IP grade
- Do not leave the product in direct sunlight.
- Do not expose the product to electrostatic forces.
- Do not place items with flames, such as candles or lighters, on the product.
- Do not place the product on anything containing water or other fluids.

If any foreign objects enter the instrument, please contact your dealer or an authorized **SOUNDSATION** center.

The **serial number**, electrical features and international standards are printed on a label located in the bottom of the instrument.

In case of problems remember to give the serial number to the responsible of the technical assistance.



Contents

Section 1. Getting Started

- ◇ Unpacking
- ◇ Safety Instruction

Section 2. Set Up

- ◇ Installation
- ◇ Controlling Board
- ◇ Machine Connection

Section 3. Troubleshooting

- ◇ Troubleshooting

Section 4. Reference

- ◇ Control Menu
- ◇ DMX Protocol
- ◇ Specification

Remarks: enter into each menu, please always remember to press ENTER to save settings. Press ESC button for go back previous menu.

CH	Function	Description
CH1	X	0-255 0-540°
CH2	Y	0-255 0-220°
CH3	X 16bit	0-255
CH4	Y 16bit	0-255
CH5	XY speed	0-255 from fast to slow
CH6	Z Focus	0-255 from small to big
CH7	Dimmer	R G B W linear dimmer from dark to bright
CH8	R	0-255 red dimmer, from dark to bright
CH9	G	0-255 green dimmer, from dark to bright
CH10	B	0-255 blue dimmer ,from dark to bright
CH 11	W	0-255 white dimmer ,from dark to bright
CH12	Strobe	0 no function, 1-255 strobe from slow to fast
CH13	Color mixing	0: N/A; 1-43: R:full bright, G:gradually bright, B,W: off; 44-85: R:gradually dark, G:full bright, B, W:off; 86-127:R: off, G:gradually dark, B:gradually bright, W: off; 128-169:R:gradually bright, G:off, B:full bright W:off; 170-211: R:full bright, G:gradually bright, B: full bright, W:off; 212-253: R,G,B: full bright, W gradually bright; 254-255: R,G,B,W: full bright;
CH14	Auto/Sound	0-10 N/A 11-40 Auto 1: Pan/Tilt auto run+color chasing+ strobe; 41-70 Auto 2: Pan/Tilt auto run+color chasing, with slow speed; 71-100 Auto 3: Pan/Tilt auto run+color chasing, with fast speed; 101-130Auto 4: Pan/Tilt auto run+color fading, with slow speed; 131-160Auto 5: Pan/Tilt auto run+color fading, with fast speed; 161-190Auto 6: color chasing(control by CH1-4); 191-220Auto 7: color fading (control CH1-4); 221-240 sound mode1, with slow speed 241-255 sound mode2, with fast speed;
CH15	reset	0-254 N/A , 255 reset (wait for 3 seconds)



MENU4: Option (PRESS ENTER)	Option Pan: Yes	X clockwise and anti-clockwise setting: UP//DOWN to choose Yes/No, press ENTER to choose and save. Yes for X anti-clockwise running.
	Option Tilt: Yes	Y clockwise and anti-clockwise setting: UP/DOWN to choose Yes/No, press ENTER to choose and save. Yes for Y anti-clockwise running.
	Option YSet:xxx	Y/Tilt reset fine setting: UP/DOWN to adjust 0-255, press ENTER to save.
	Option Sound: xxx	Sound control sensitivity setting: UP/DOWN to adjust 0-255, press ENTER to save(255 stands for max sensitivity)
	Option LCD:ON	LCD display backlight setting: UP/DOWN to choose On or Off, press ENTER to save. It works after pressing Off 15S
MENU5: Pass Word (PRESS ENTER)	Pass Word Un-Lock	Password unlock: press ENTER, UP/DOWN to choose three-digit-password (default password is 988), press ENTER to unlock password. power on after power off, no need password
	Pass Word Lock	Password lock: press ENTER, UP/DOWN to choose three-digit-password (lock password is 988), press ENTER to lock password. power on after power off, need password.
MENU6: Re- Def- (PRESS ENTER)	Restore system default: press ENTER then fixture restore factory default and reset.	
MENU7: Reset (PRESS ENTER)	Fixture reset: press ENTER then fixture reset.	

Section 1. Getting Started

- ✧ Unpacking
- ✧ Safety Instruction

Unpacking

- 1pc Fixture
- 1pc User Manual
- 1pc Signal Cable

Thanks for using our LED MINI BEAM MOVING LIGHT range. Carefully unpack the box and check the contents to ensure that all parts are present and in good conditions. If anything looks as if it has been damaged in transit, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If a fixture must be returned to manufacturer, it is important that the fixture be returned in the original manufacturer box and packing.



Safety Instruction



For your safety , please read this user manual carefully before operation. The machine should be operated by qualified engineer !

- Please conserve this manual as operation guidance. If you sell this product to other user, please make sure that they also receive this user manual.
- Always make sure that you are connecting to the proper voltage and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- The fixture 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 1.5 meter while operating.
- The unit must be installed in a location with adequate ventilation, at least 50CM away from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Do not operate at ambient temperatures higher than 95°F (35°C).
- Safe wire should be used to install machine. Bearing of safe wire should be 3 times of the machine weight. Complimentary signal cable transmits signals to 20 unit fixtures at most within 20meters. Signal amplifier is a must to connect more fixtures. Sectional area of complimentary power cable is 1 m². In daisy chain model, it allows to connect to 4 fixtures at most.
- 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.
- Secure fixture using a safety chain and carrying handles. Never carry the fixture by its cord.
- In case of failure or malfunction occurred, stop using the unit immediately.
- Repairs carried out by unskilled people can lead to damage or malfunction. Buy the same spare parts/components from manufacturer directly.
- To avoid electric shock, all fixtures must be connected to circuits with a suitable ground. Make sure the power cord is never crimped or damaged. Do not power on and power off the fixture in a short time. For your safety, do not touch fixture when running.
- When use DMX controller, please make sure that there is no interference sources(e.g. intercom, high frequency radio waves and radiation source)

Caution! There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your local distribution or after-sale service center.



Section 4. Reference

- ◇ Control Menu
- ◇ DMX Protocol
- ◇ Specification

Control Menu

MENU1: Dmx:15CH (PRESS ENTER)	Dmx:15CH Add:xxx	DMX512: Press UP/DOWN to set up 1-512 address value, press ENTER to save.
MENU2: Test (PRESS ENTER)	Test Auto1	Pan/Tilt auto run+color chasing+strobe, press ENTER to save.
	Test Auto2	Pan/Tilt auto run+ color chasing, w/slow speed, press ENTER to save.
	Test Auto3	Pan/Tilt auto run+ color chasing, w/fast speed, press ENTER to save.
	Test Auto4	Pan/Tilt auto run+ color fading, w/slow speed, press ENTER to save.
	Test Auto5	Pan/Tilt auto run+ color fading, w/fast speed, press ENTER to save.
	Test Auto6	Pan/Tilt fixed+ color chasing, press ENTER to save.
	Test Auto7	Pan/Tilt fixed +color fading, press ENTER to save.
	Test Sound1	Sound model 1: works slowly, press ENTER to save.
	Test Sound2	Sound model 2: works fast, press ENTER to save.
MENU3: Manual (PRESS ENTER)	Manual CH01: xxx ...Manual CH15:xxx	Manual: Press UP/ DOWN adjust value 0-255, press ENTER to save. (CH01-CH15 stands for 15 channels, SAME function as DMX console.)



Section 3. Troubleshooting

	Probable cause(s)	Remedy
No response from fixture when power is applied	No power to fixture	Check power cables
	Primary fuse blown	Replace fuse
	Secondary fuse blown	Replace fuse
Fixture resets but does not respond correctly to controller(DMX mode operation)	Controller not connected	Connect controller
	Incorrect addressing of the fixtures	Check address setting on fixture and controller
	Bad data link connection	Inspect cables and correct poor connections and/or broken cables.
	Conflict between tracking and vector control	Eliminate scene cross-fade on controller
	Data link not terminated	Insert termination plug in output of last fixture
	Defective fixture or 2 devices transmitting on link	Bypass fixtures one at a time until normal operation is regained: unplug both connectors and connect them directly together
Colors cannot be mixed	Random color mixing is on	Turn off random color mixing
Fixture does not reset correctly	Electronic or mechanical failure	Contact service technician
No light, lamp cuts out intermittently, or burns out too quickly	Lamp missing or blown	Disconnect fixture and replace lamp
	Fixture or lamp is too hot	Allow fixture to cool. If problem persists ,contact service technician

Section 2. Set Up

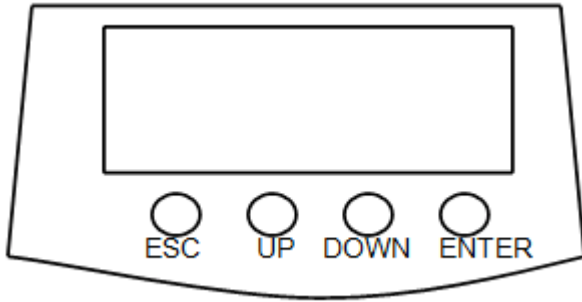
- ✧ Installation
- ✧ Controlling Board
- ✧ Machine Connection

Installation

This machine should be mounted through the screw holes of truss. Safety wire is a must to fix fixture well. Make sure truss and safety wire have strong load capacity to bear 3 times weight than fixture at least. This machine should be installed by qualified technician.



Controlling Board



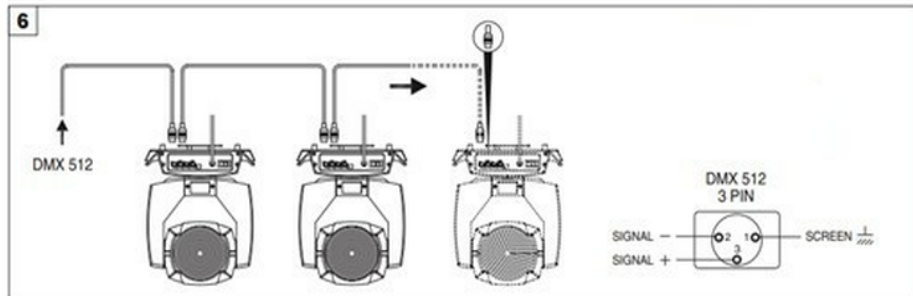
1. Display

LCD Display menu and selected function.

Button

ESC	switch menu function
UP	On function: page up On numerical value: increase value
DOWN	On function: page down On numerical value: reduce value
ENTER	Settle selected function and value

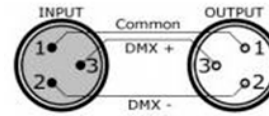
Machine Connection



DMX CHART

Cable Connectors

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



A word on termination: DMX is a resilient communication protocol, however errors still occasionally occur. Termination reduces signal errors, and therefore best practices include use of a terminator in all circumstances. If you are experiencing problems with erratic fixture behavior, especially over long signal cable runs, a terminator may help improve performance.



To build your own DMX Terminator: Obtain a 120-ohm, 1/4-watt resistor, and wire it between pins 2&3 of the last fixture. They are also readily available from specialty retailers.

Maximum 20 PCS fixtures connected by Daisy chain connection

Master-Slave control model:

- Set up one fixture as Master fixture(triggering) by choosing and saving from **Auto1-Auto7**, **Sound1-sound 2** or **Manual**, other fixtures as slave fixtures(receiving trigger signals). Set up all fixtures same address value or following DMX controller performance(Attention: all fixtures use the same DMX channel 14)

