



## LIGHTBLASTER 102 COB LED BLINDER

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## USER MANUAL

*Please read this manual carefully and properly take care of it*

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.soundsation-music.com](http://www.soundsation-music.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

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## 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.



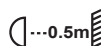
To protect the environment, please try to recycle the packing material as much as possible



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

### **1) 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.

### **2) 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.

### **3) 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.

### **4) VENTILATION**

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

### **5) OBJECT AND LIQUID ENTRY**

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

### **6) 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.

### **7) 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.

### **8) 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.

## **9) 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).

## **10) CLEANING**

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

## **11) 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 LIGHTBLASTER 102 COB. 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.

## **I.I. UNPACKING**

Your LIGHTBLASTER 102 COB 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. Each unit has the following parts:

- ▶ LED Blinder
- ▶ Power Cord
- ▶ DMX Cable (3 Pins)
- ▶ 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.

## 1.2. Accessories

SOUNDSATION can supply a wide range of quality accessories that you can use with your SPIRE Series moving head, 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

Lightblaster LED blinders series combines the benefits of LED technology (energy saving, reliability and durability over time) with lighting requirements in the photographic, television and stage industry. The design is very essential and functional; the chassis is completely metal to facilitate the cooling of light sources. Programming and setting are extremely simple, and DMX512 allows these blinders to be remote controlled. All PARs are equipped with color temperature regulation system, which allows you to mix cold and warm white (3200 - 6500K) depending on your needs. The advanced cooling system reduces fan noise according to the internal temperature and allows them to be used even in situations where low noise is required. The advanced dimmer system provides various adjustment curves to fit the device to different requirements. Finally, the absence of flicker and dithering allows the use in television studios. The fixtures come with 100W COB LEDs (50W CW + 50W WW) with high brightness and durability


## 3. PRODUCT SPECIFICATION


- ▶ 2x100W COB LED (50W Cold White + 50W Warm White)
- ▶ Color Temperature: 3200-6500K with mixing regulation
- ▶ Light Intensity: 11600 Lux @1m
- ▶ Advanced Dimmer System with different Variation Curves
- ▶ Long life span (50000 - 100000 hours)
- ▶ 60° Lens Angle
- ▶ No flicker, No dithering, No Jitter
- ▶ Advanced cooling system for fan noise reduction

## 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

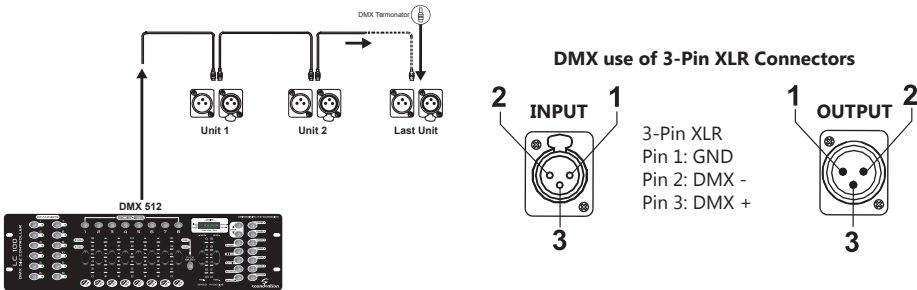
when connecting power. Wire correspondence is as follows:

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

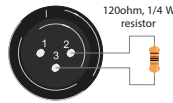
DMX is a resilient communication protocol, however errors still occasionally occur. In order to prevent electrical noise from disturbing and corrupting the DMX control signals, a good habit is to connect DMX output of last fixture in the chain to a DMX terminator, especially over long signal cable runs.

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.

DMX Terminator

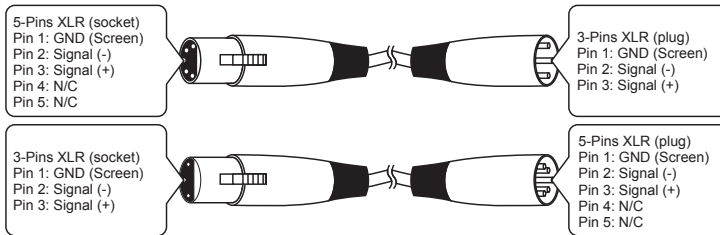


 **Complimentary signal cable can transmits signals to 20 unit fixtures at most. Signal amplifier is a must to connect more fixtures.**

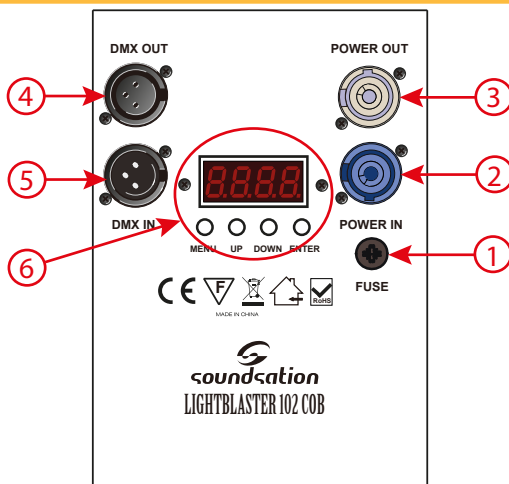
### 5.2.3-Pin vs 5-Pin DMX cables

DMX connection protocols used by controllers and fixtures manufacturers are not standardized around the world. However, two are the most common standards: 5-Pin XLR and 3-Pin XLR system. If you wish to connect MOOD 185 WASH 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. REAR PANEL



1) FUSE

2) POWER IN

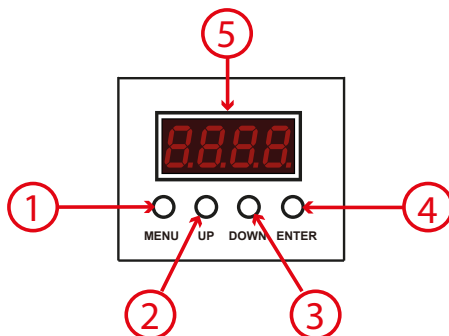
3) POWER OUT

4) DMX OUTPUT 3 PINS

5) DMX INPUT 3 PINS

6) CONTROL PANEL (For further details see "6.1 Control Panel" on page 10)

### 6.1. Control Panel



1) MENU BUTTON

This button allows to scroll all the device's functions.

## 2) UP BUTTON

Using this button, it is possible to increase the function's value

## 3) DOWN BUTTON

Using this button, it is possible to decrease the function's value

## 4) ENTER BUTTON

This button allows to save a new function's value and it shows also the operative temperature

## 5) 4 X 7 SEGMENTS DISPLAY

It shows the current function's name or function's value

# 7. FUNCTION CHART

N°	FUNCTION NAME	DESCRIPTION
1	<i>A001</i>	8 channel address codes, (001—512)
2	<i>d001</i>	4 channel address codes, (001—512)
3	<i>CC99</i>	Jump change 1, (01—99) Jump change speed
4	<i>dE99</i>	Jump change 2, (01—99) Group change speed
5	<i>CP99</i>	Gradual change, (01—99) Pulse\Gradual change speed
6	<i>dEdF</i>	Voice control change
7	<i>r255</i>	R Shade selection, (000—255) (NOT ACTIVE IN THIS MODEL)
8	<i>G255</i>	G Shade selection, (000—255) (NOT ACTIVE IN THIS MODEL)
9	<i>b255</i>	B Shade selection, (000—255) (NOT ACTIVE IN THIS MODEL)
10	<i>o255</i>	W Shade selection, (000—255)

## 8. CHANNEL CHART

FUNCTION	8CH	4CH
DIMMER W - From dark to bright ( $0\% \leq \text{value} \leq 100\%$ )	CH1	
Strobe: from slow to fast	CH2	
Function select: 0-51 no use, 51-100 jump change, 101-160 jump change, 161-240 gradual change, 241-255 voice control	CH3	
Function speed: from slow to fast	CH4	
R Dimmer: from dark to bright (NOT ACTIVE IN THIS MODEL)	CH5	CH1
G Dimmer: from dark to bright (NOT ACTIVE IN THIS MODEL)	CH6	CH2
B Dimmer: from dark to bright (NOT ACTIVE IN THIS MODEL)	CH7	CH3
DIMMER W- From dark to bright ( $0\% \leq \text{value} \leq 100\%$ )	CH8	CH4

## 9. SPECIFICATIONS

Electrical	Voltage	110V ~ 240V 50-60HZ
	Power consumption	200W
	Fuse	5A 250V fast blow 20mm glass
Light Source	LED	100WX2PCS
	Color	3200-6500K
Control Mode	DMX512	8/4CH OPTIONAL
	Master/slave	✓
	Manual control	✓
	Sound Active	✓
	Auto	✓
Light Body Material	Aluminum	
Optical system	Lens Angle	60 °
Strobe	1-10t/s	
Dimmer frequency	1000Hz	
Driver electric current	700mA	
Physical	Light size (WxHxD)	370 x 180 x 190 mm
	Net weight	4,5Kg
Environment & safety	Stock	Dry Place
	Min working temperature	-20°C
	Max working temperature	40°C

## IO. 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)

## II. 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.



MADE IN CHINA

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This product is imported in EU by  
FRENEXPORT SPA – Via Enzo Ferrari, 10 - 62017 Porto Recanati - Italy

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