

LED STROBE BAR

USER MANUAL



For safety, please read this user manual carefully before initial use.

Tealshine reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Tealshine assumes no liability or responsibility for any errors or omissions. Please consult Tealshine for any clarification or information regarding this item.

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1 Important Safety Information

Symbol	Meaning
	General risk.
	Electric shock risk
	Hot surface
	Suitable for indoor use only.
$T_a 45^{\circ}\text{C}$	Maximum operating ambient temperature.
	Minimum distance from illuminated objects.
	Do not stare at the operating light source.
 Risk Group 2	Photobiological safety risk group2
	Never expose the front lens to sunlight or any strong artificial Light source from any angle to avoid damage of head internal parts.



(WEEE)

European Community Directive 2012/19/EU on Waste Electrical and Electronic Equipment.

2 General Warning

Carefully read the instruction contained in this User Manual, as they give important information regarding your safety and others during installation, use, and maintenance of the product.

The unit is not suitable for domestic use and must be installed by qualified personnel only.

The device must always be equipped with an efficient ground connection.

3 Level of protection IP



- The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid objects is IP20.
- The projector contains electric and electronic components which should under no circumstances come into contact with oil, water, or any other liquid. The proper functioning of the unit would be compromised should this occur.

4 Included Items

- 1x PowerCON female connector
- 2x Omega clamp with ¼- turn “Fast Lock” connection(For moving head)
- Safety cable(Optional)
- Signal cable

5 General Warranty Conditions

The unit is guaranteed for 12 months from the date of purchase against manufacturing material defects.

The warranty covers defects in materials and workmanship. The warranty is not applicable where a defect is caused by misuse or unauthorized repair of the product.

Any functional or/and physical modification of the product is not allowed.

6 Product Installation

The unit is suitable for dry locations only.

The unit may be either floor or ceiling mounted.

6.1 Floor mounting

For floor mounting installations, This model is supplied with four rubber mounting feet at the base

6.2 Ceiling mounting

For ceiling mounting installations, we recommend the use of appropriate clamps to fix the unit to the mounting surface.

The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hang it.

The structure should also be sufficiently rigid as not to move or shake whilst the device is moving.

Four ¼-turn “Fast Lock” connections placed in the base of the unit allow this model to hang by using Omega brackets (provided with the unit)

6.3 Safety Cable

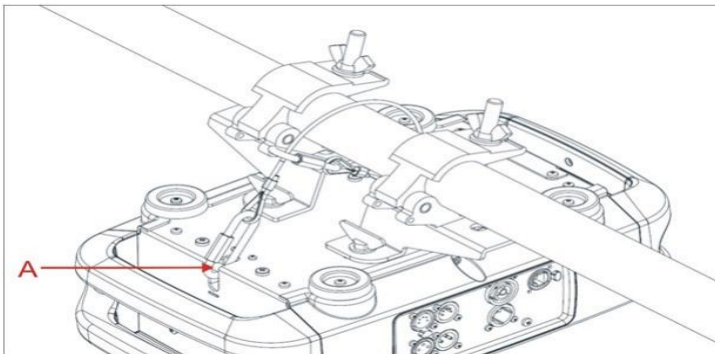


A safety cable must be securely fixed to this model and to the suspension truss in order to avoid the fixture accidentally falling, should the main fixing point fail.

The safety cable used must be approved by a notified body according to IEC 60598-2-17 and must be capable of bearing at least 10 times the weight of the unit. For more information,

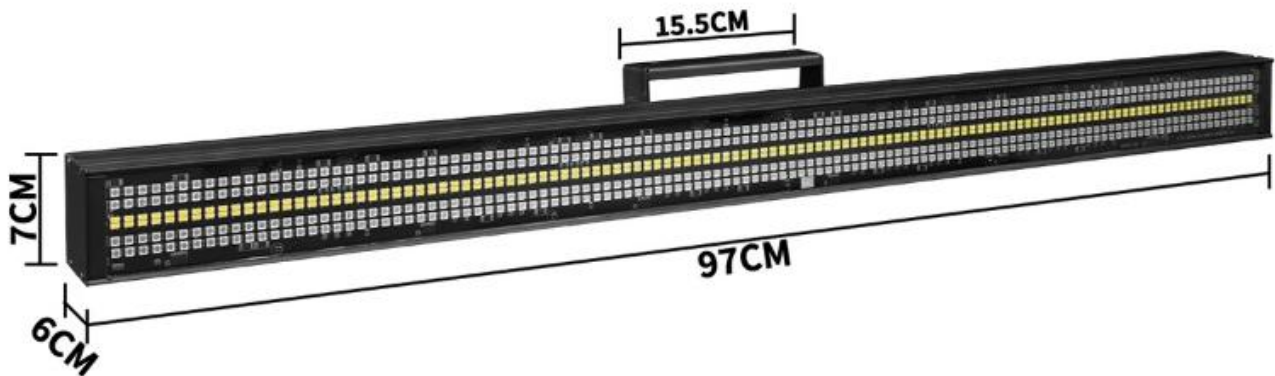
please refer to an authorized service center.

You may attach the safety cable to the attachment point (A) located at the base of the fixture, as shown in the picture as below.



7 Product Features

7.1 Dimensions



7.2 Menu Operation



MENU	- To access the control menus in the display panel. - To return to the previous level in the menu structure without saving any changes. - To exit the menus.
ENTER	- To select any desired menu. - To confirm any selection made or save any changes.
UP / DOWN	- To navigate the menus' structure. - To scroll between any values.

7.3 Menu

A001	➡	A512	A001~A512 DMX Address Setting,Default:A001
CH0 4	➡	CH16 8	CH04/CH16/CH168,Default:CH16
A000	➡	A127	RGB Effect,S000-S128-S255
S010	➡	S010	RGB Effect Speed,S000-S128-S255
P000	➡	P063	White Effect
S010	➡	S010	White Effect Speed
Q000	➡	Q127	RGBW Effect
S010	➡	S010	RGBW Effect Speed
R255	➡	R000	Adjust Red Brightness,R000~ R255,Default:R255
G255	➡	G000	Adjust Green Brightness,G000~ G255,Default:G255

B255	➡	B000	Adjust Blue Brightness,B000~ B255,Default:B255
W255 5	➡	W000	Adjust White Brightness,W000~ W255,Default:W255
T000			Current Temperature

General operation of the setup menu:

- Press the MENU button to ENTER the setup menu.
- Press the UP/DOWN buttons to browse the menu until the required function shows up.
- Select the functions with the ENTER button.
- Use UP/DOWN buttons to change the values.
- Press the ENTER button to confirm the selected values.
- Press the MENU button to return to a higher level in the menu or leave the setup menu.
- Press the MENU button during 2s to unlock the setup menu.
- Press the UP/DOWN buttons together to flip the display.

DMX setting menu:

DMX ADDRESS

Used to set the desired DMX address.

- Press the UP/DOWN buttons to browse the menu until the required function shows up
- Press the ENTER button:the values can be changed
- Use UP/DOWN buttons to select the desired DMX512 address.The last occupied DMX address is also shown:make it easier to set the address of the next unit in the chain.
- Once the correct address shows on the display,press the ENTER button to save it.

7.4 Factory setting

R255	➡	R032	Adjust Red LED Current R032-R255,Default:R245
G255	➡	G032	Adjust Green LED Current G032-G255,Default:G245
B255	➡	B032	Adjust Blue LED Current B032-B255,Default:B245
W255	➡	W032	Adjust Blue LED Current W032-W255,Default:W245
FAN0	➡	FAN1	FAN0(LED is on), FAN1(Exceeding 40 degree)
T040	➡	T070	Adjust the Temperature 40℃~70℃,Default:T065
Send	➡	Send	Send Signal.Press the MENU Button for 5 Seconds to Send Parameters.To Exit,Press the ENTER Button

Remakes:When the address code is set anywhere between A001 and A512, press the MENU button for 5 seconds to enter the factory settings. The factory settings mainly include functions such as adjusting the output power of each lighting channel, fan setting mode, setting the temperature protection point, and sending parameters. In any mode within the factory settings, press the MENU button for 5 seconds to exit.

7.5 DMX Chart

CH4 Channel Mode:

CH	Value	Function
1	000-255	Red linear dimmer
2	000-255	Green linear dimmer
3	000-255	Blue linear dimmer
4	000-255	White linear dimmer

CH16 Channel Mode:default

CH	Value	Function
1	000-255	Master dimmer
2	000-255	RGB strobe
3	000-255	Red linear dimmer
4	000-255	Green linear dimmer
5	000-255	Blue linear dimmer
6	000-255	RGB mode
7	000-255	RGB speed
8	000-255	W strobe
9	000-255	White
10	000-255	White mode
11	000-255	White speed
12	000-255	RGBW strobe
13	000-255	RGBW mode
14	000-255	RGBW speed
15	000-255	Background color
16	000-255	Background dimmer

CH168 Channel Mode:

CH	Value	Function
1	000-255	Zone 1 red linear dimmer
2	000-255	Zone 1 green linear dimmer
3	000-255	Zone 1 blue linear dimmer
5	000-255	Zone 2 red linear dimmer
6	000-255	Zone 2 green linear dimmer
7	000-255	Zone 2 blue linear dimmer
...	...	...
142	000-255	Zone 48 red linear dimmer
143	000-255	Zone 48 green linear dimmer
144	000-255	Zone 48 blue linear dimmer

145	000-255	Zone 1 white linear dimmer
146	000-255	Zone 2 white linear dimmer
147	000-255	Zone 3 white linear dimmer
...	...	...
167	000-255	Zone 23 white linear dimmer
168	000-255	Zone 24 white linear dimmer

六、Effect Marco-RGB Central Line

Value	Code	RGB effect
0-1	0	No function
2-3	1	RGB macro 1
4-5	2	RGB macro 2
6-7	3	RGB macro 3
...	...	...
250-251	125	RGB macro 125
252-253	126	RGB macro 126
254-255	127	RGB macro 127

七、Effect Marco-White Central Line

Value	Code	White effect
0-3	0	No function
4-7	1	White macro 1
8-11	2	White macro 2
12-15	3	White macro 3
...	...	...
240-243	60	White macro 60
244-247	61	White macro 61
248-251	62	White macro 62
252-255	63	White macro 63

八、Effect Macro-RGBW

Value	Code	RGBW effect
0-1	0	No function
2-3	1	RGBW macro 1
4-5	2	RGBW macro 2
6-7	3	RGBW macro 3
...	...	...
250-251	125	RGBW macro 125
252-253	126	RGBW macro 126
254-255	127	Loop from RGBW macro 1-126

The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, there is channel modes: 14/16, if we set the mode at standard 16 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 17, third one at 33, etc.

- If the devices have the same address, they will behave synchronically.
- Display is flashing when no DMX signal is received.

8 More Functions

- Software upgrade function via DMX cable. If there is any new firmware for this device, it can be upgraded simply via a software upgrade box, without the need to change any mechanical parts. The upgrade box is not included in the package, if you need any further assistance please contact your authorized dealer.
- Hibernation. The device will enter standby mode if activated after a period of disconnecting DMX signal to save power and will wake immediately when the DMX signal is sent or received again.

9 Technical Specifications

Power

- Input Voltage: 90~260V AC, 50/60Hz
- Power Consumption: 150W
- Fuse: F5A, 250V

Photometric

- Light Source: 240 pcs*0.5W SMD 5730 CW LEDs+480 pcs* 0.3W RGB SMD 5050 LEDs
- LED Lifespan: 50,000hours

Effects

- Dimmer: 0~100%
- Horse race effect
- Pulse effect
- Strobe:1-30Hz
- Individual LED zones:48 RGB-zones+24 CW-zones
- Pure smooth Color Mixing
- Different kinds of preset macro effects with variable speed
- Outstanding strobe effect with variable speed
- Dual mounting brackets design

Control

- Protocol: DMX512/RDM,,master-slave,sound activated or auto operation
- DMX Channels: 4/16/168
- IP20 3-pin XLR IN/OUT
- IP20 PowerCON IN/OUT
- Display: 4-button LED display control panel

Housing

- Materials: Metal
- Finishing: Matte black
- IP Rating: IP20
- Cooling: Fan
- Net Weight: 2.3kgs
- Gross Weight: 3.1kgs
- Rigging: Power cable, signal cable

Working Environment

- Maximum Ambient Temperature: 45°C
- Minimum Operating Temperature: -10°C
- Protection Rating: IP65

Approvals

- CE compliant
- RoHS compliant

10 Periodic Cleaning



WARNING! Disconnect from mains before servicing.

10.1 Mechanical Parts

Periodically check all mechanical parts, gears, guides, belts, etc., for wear and tear. Replace them if necessary.

Periodically check the lubrication of all components, particularly the parts subjected to high temperatures. If necessary, apply suitable lubricant (available from factory) where needed.

Check the tension of the belts and adjust them where necessary.

10.2 Electrical Components

Check all electrical components for correct earthing and proper connection of all connectors. Refasten where necessary.