

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 1/4- 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

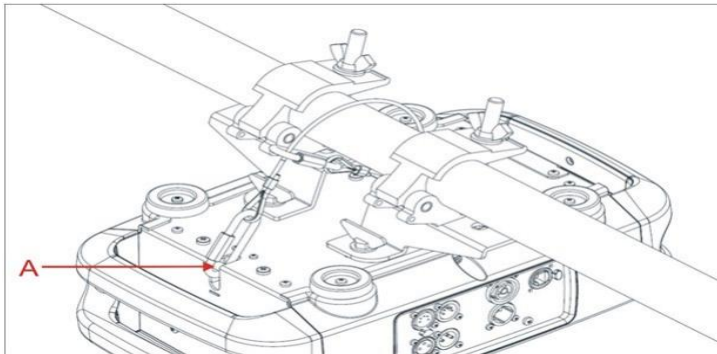


A safety cable must be securely fixed to this model and to the suspension truss in order to avoid the fixture accidentally falling, should the main fixing point fail.

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		A001-A512	Address Setting
09CH	channel pattern	Default 9CH	Select channel 03CH, 05CH, 09CH, 48CH, or 57CH
-512	running mode		DMX512, voice-controlled, self-propelled
E001	Effect Mode	E001-E085	Effect selection (85 options)
P000	Effect speed	P000-P255	Use the UP/DOWN keys to select the running speed (P000-P255), and press ENTER to save the current speed.
CL00	Effect Color Selection	CL00-CL28	28 color options
dir0	Effect direction	dir0-dir1	Effect Direction Selection
R255	Manual red	R000-R255	Manual Red
G255	Manual green	G000-G255	Manual Green
B255	Manual Blue	B000-B255	Manual Blue
F000	manual Strobe	F000-F255	Manual Strobe
T000	Temperature display	T000-T105	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.

7.5 DMX Chart

CH03 Channel Mode:

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

CH08 Channel Mode:

CH	Value	Function
1	000-255	Master dimmer
2	000-255	Strobe
3	000-255	Mode 1(See more details at mode effect 1)
4	000-255	Color
5	000-255	Speed
6	000-255	Red linear dimmer
7	000-255	Green linear dimmer
8	000-255	Blue linear dimmer

CH48 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
...	...	
46	000-255	Zone 16 red linear dimmer
47	000-255	Zone 16 green linear dimmer
48	000-255	Zone 16 blue linear dimmer

CH53 Channel Mode:

CH	Value	Function
1	000-255	Master dimmer
2	000-255	Strobe
3	000-255	Mode 1(See more details at mode effect 1)

4	000-255	Color
5	000-255	Speed
6	000-255	Zone 1 red linear dimmer
7	000-255	Zone 1 green linear dimmer
8	000-255	Zone 1 blue linear dimmer
...	...	
51	000-255	Zone 16 red linear dimmer
52	000-255	Zone 16 green linear dimmer
53	000-255	Zone 16 blue linear dimmer

Effect Macro (Use color lever to change the background for RGB within 4-87 code range)

Value	Code	Effect
0-1	0	No function
2-3	1	Fading effect
4-5	2	Pulse effect
6-7	3	Jumping effect
8-9	4	Marco 4
10-11	5	Marco 5
12-13	6	Marco 6
14-15	7	Marco 7
16-17	8	Marco 8
18-19	9	Marco 9
20-21	10	Marco 10
22-23	11	Marco 11
24-25	12	Marco 12
26-27	13	Marco 13
28-29	14	Marco 14
30-31	15	Marco 15
32-33	16	Marco 16
34-35	17	Marco 17
36-37	18	Marco 18
38-39	19	Marco 19
40-41	20	Marco 20
42-43	21	Marco 21
44-45	22	Marco 22
46-47	23	Marco 23
48-49	24	Marco 24
50-51	25	Marco 25
52-53	26	Marco 26
54-55	27	Marco 27
56-57	28	Marco 28
58-59	29	Marco 29
60-61	30	Marco 30
62-63	31	Marco 31
64-65	32	Marco 32
66-67	33	Marco 33
68-69	34	Marco 34
70-71	35	Marco 35
72-73	36	Marco 36
74-75	37	Marco 37
76-77	38	Marco 38
78-79	39	Marco 39

80-81	40	Marco 40
82-83	41	Marco 41
84-85	42	Marco 42
86-87	43	Marco 43
88-89	44	Marco 44
90-91	45	Marco 45
92-93	46	Marco 46
94-95	47	Marco 47
96-97	48	Marco 48
98-99	49	Marco 49
100-101	50	Marco 50
102-103	51	Marco 51
104-105	52	Marco 52
106-107	53	Marco 53
108-109	54	Marco 54
110-111	55	Marco 55
112-113	56	Marco 56
114-115	57	Marco 57
116-117	58	Marco 58
118-119	59	Marco 59
120-121	60	Marco 60
122-123	61	Marco 61
124-125	62	Marco 62
126-127	63	Marco 63
128-129	64	Marco 64
130-131	65	Marco 65
132-133	66	Marco 66
134-135	67	Marco 67
136-137	68	Marco 68
138-139	69	Marco 69
140-141	70	Marco 70
142-143	71	Marco 71
144-145	72	Marco 72
146-147	73	Marco 73
148-149	74	Marco 74
150-151	75	Marco 75
152-153	76	Marco 76
154-155	77	Marco 77
156-157	78	Marco 78
158-159	79	Marco 79
160-161	80	Marco 80
162-163	81	Marco 81
164-165	82	Marco 82
166-167	83	Marco 83
168-169	84	Marco 84
170-171	85	Marco 85
172-173	86	Marco 86
174-175	87	Marco 87
176-177	88	Marco 88
178-179	89	Marco 89
180-181	90	Marco 90
182-183	91	Marco 91
184-185	92	Marco 92
186-187	93	Marco 93
188-189	94	Marco 94

190-191	95	Marco 95
192-193	96	Marco 96
194-195	97	Marco 97
196-197	98	Marco 98
198-199	99	Marco 99
200-201	100	Marco 100
202-203	101	Marco 101
204-205	102	Marco 102
206-207	103	Marco 103
208-209	104	Marco 104
210-211	105	Marco 105
212-213	106	Marco 106
214-215	107	Marco 107
216-217	108	Marco 108
218-219	109	Marco 109
220-221	110	Marco 110
222-223	111	Marco 111
224-225	112	Marco 112
226-227	113	Marco 113
228-229	114	Marco 114
230-231	115	Marco 115
232-233	116	Marco 116
234-235	117	Marco 117
236-237	118	Marco 118
238-239	119	Marco 119
240-241	120	Marco 120
242-243	121	Marco 121
244-245	122	Marco 122
246-247	123	Marco 123
248-249	124	Marco 124
250-251	125	Marco 125
252-253	126	Marco 126
254-255	127	Combined all effects

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: 300W
- Fuse: F5A, 250V

Photometric

- Light Source: 1296 pcs*0.2W RGB SMD 5050 LEDs
- LED Lifespan: 50,000hours

Effects

- Dimmer: 0~100%
- Horse race effect
- Pulse effect
- Strobe:1-30Hz
- Individual LED zones:16 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: 3/8/6/48/53
- IP20 3-pin XLR IN/OUT
- IP20 PowerCON IN/OUT
- Display: OLED display with four buttons

Housing

- Materials: Metal
- Finishing: Matte black
- IP Rating: IP20
- Cooling: Fan
- Net Weight: 3kgs
- Gross Weight:3.8kgs
- Rigging: Power cable, signal cable

Cooling System

- Advanced cooling system integrated
- Constant temperature readout and management function
- Over temperature protection management

Working Environment

- Maximum Ambient Temperature:45℃
- Minimum Operating Temperature:-10℃
- Protection Rating:IP20

Approvals

- CE compliant
- RoHS compliant

10 Periodic Cleaning



Warning! Disconnect from mains before serving

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.

