



SURF12X60

Tilt bar with zoom 12 x 60W RGBW LEDs

USER MANUAL



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

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

Version 1.1 (July 2024)

Product introduction

Thank you for buying our professional LED Moving Zoom Bar light.

This user manual includes important information for installation and operation, so please read this user manual carefully before installation and operation, and keep this user manual well for further use.

In order to install , operate, and maintain the lighting safety and correctly. We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.

Spare part includes:

Name	QTY	Unit
Fixture	1	PC
User manual	1	PC
Power cable	1	PC
DMX cable	1	PC
Bracket Screw	2	PCS

Please check carefully that there is no damage caused by transportation. Should there be any, consult your local dealer.

Cautions

Before delivery, this device has passed strict inspection, Please follow the user manual strictly for operation, if this fixture is damaged by improper operation and mistake, the fixture will be out of warranty, and manufacture or dealer won't be responsible for it. In case of any technology change in this manual,we won't advise in further .

CAUTION!



Keep this device away from rain and moisture!



Unplug mains lead before opening the housing!



Warning!

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.



-----Only indoor use



-----RoHS Certificate




-----The minimum distance from lighted objects(meter)



-----not suitable for direct installation on combustible material surface

1. Safety Instructions

- Please open and check whether break or not for transport once receive this fixture, if yes, don't use it and contact dealer or manufacture as soon as possible.
- The Max applicable temperature for the light is 40°C. Do not use the light when the ambient temperature exceeds 40 degrees, $t_a=40^{\circ}\text{C}$
- The fixture is applicable for many occasions, please keep it clean, and avoid long use in overheating or dusty environment. To prevent the fixture from the chemical liquid .
- User must be careful of fire, heat, electric and fall-off that make heavy or fatal injury. Please read this user manual carefully before power on and installation, follow safety and operation instruction in it. If still have any question, please contact dealer or manufacture.
- User must follow this user manual, do not open fixture by yourself, if any problem, please contact professional technician, maintenance should be done by technician.
- Do not turn on the fixture before installation, please turn off the light after working more than 8 hours, which will prolong the lifespan of the fixture.
- During installation, prevent strong shocks or do not by strong shocks or vibration.
- The minimum distance between light and the illuminated surface must be more than 1 meter. 
- Never look directly into the light source to avoid hurt to eyes (especially epileptics)!
- When dust proof glass at light output breaks, cracks or other visible damage, user should replace with new glass instead.

Warnings : please turn off the light before repair, maintenance or cleaning

2. Installation

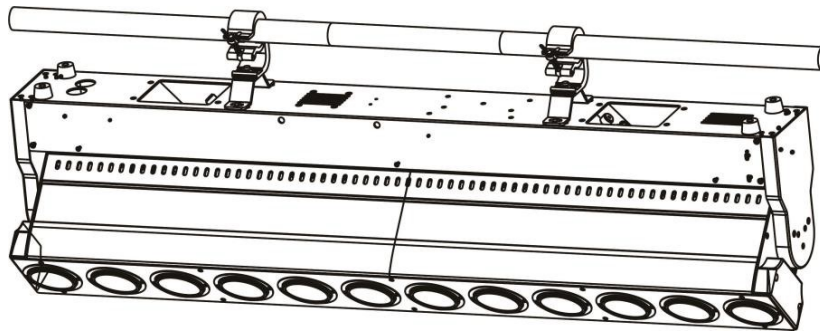


CAUTION!

Please consider the GB7000.15/EN60598-2-17 and the other respective national norms during The installation. The installation must only be carried out by a qualified person.

- ▶ This fixture is not suitable for direct installation on combustible material surface, please keep the fixture surface at least 0.5m from any combustible material.
- ▶ If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.
- ▶ The applicable temperature for the fixture is between -25°C to 45°C. Do not use the lighting under or above this temperature range.
- ▶ The truss for hanging the fixture should be able to hold 10 times weight of this fixture and no deformation after 1 hour hang.
- ▶ Please don't stand under the fixture when install, uninstall, move or repair the fixture.
- ▶ Please ensure the light is connected correctly and invite professional technician to check and confirm the electrical data before installation.
- ▶ Please invite professional technician to check the fixture and installation each year

Rigging:



Install the quick-locking handle with the light hook on the fixing base plate : insert the quick-locking buckle into the two holes of the fixing plate and tighten the quick-locking buckle clockwise.

Clamp the installed lamp hook to the holder.

Pass the safety rope through a connecting hole in the center of the fixture base and hang it on the fixing bracket or another fixing point.

Note: This work is very important. As a second safety hanging device, it is guaranteed that the fixture body will not be dropped due to the problem of the light hook.

3. Product specification

12PCS 60W RGBW 4in1 LED ;

LED lifespan:≥ 30000 hours

Input voltage : AC100 ~240V 50/60HZ

Power consumption : 680W

Beam angle:3--40°

Control mode : DMX,Auto,Sound

DMX channel : 18/56 CH

IP rating: IP20

Display: 1.8-inch color LCD display, 180-degree rotatable

RGBW excellent color mixing effect, 0-100% smooth dimming

Signal input/output: 3 cores

Tilt: 220° (16bit precise scanning)

Maximum number of connections: 220V: within 8 units, the wire needs to be 2.5 mm²

120V: within 4 units, the wire needs to be 2.5 mm²

Product size: 1080*130*315 (mm)

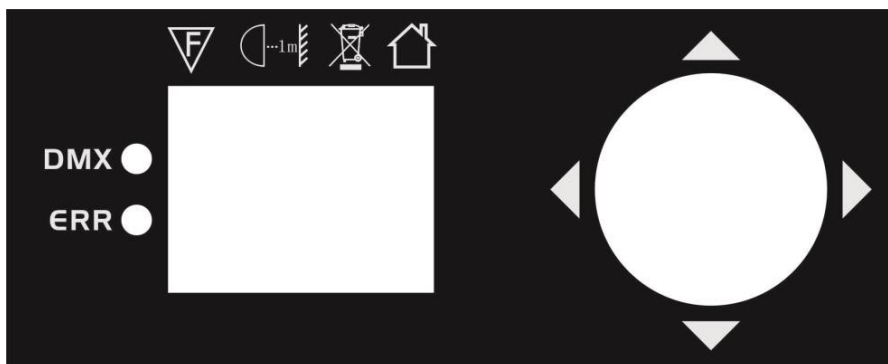
Package size: 1160*210*420 (mm)

Net weight: 22kg

Gross weight: 24kg

Effect: LED point control, temperature control protection, overheating protection, high-efficiency cooling system, the fan can detect the temperature of the head of the light and automatically adjust the speed

4. MENU Instruction



Display operation

Main Menu	Secondary menu	Tertiary menu/parameter	
DMX Address	001 - 512		
System setting	Operation Mode	DMX/Sound/Auto1/Auto2	
	Channel Mode	18/56CH	
	Effect inversion	On/Off	
	Tilt inversion	On/Off	
	Hall Error Correction	On/Off	
	Optocoupler Error Correction	On/Off	
	Signal Hold	On/Off	
	Screen saver	On/Off	
	Screen Flip	On/Off/Auto	
	Synchronize Updates	On/Off	
	Language	CN/EN	
	Default	Confirm/Cancel	
Manual Mode	Current Channel Mode	0-255	
System Calibration	Enter Password (No Password)	Light Calibration	
System Reset	Effect Motor Reset		
	Scan motor reset		
	All motors reset		
System information	Reset error information	Display reset error information	
	DMX data monitoring	Receive the channel value of the console	
	Sensor information	Hall information	
		X optocoupler information	
		Y optocoupler information	
	Hardware version	Display the hardware version	
Software Version	Display the software version		

Function key

There are four operation buttons on the control panel of this lighting fixture, which can be used to set the starting address code, turn on and off the lights, run preset programs, or reset.

[MENU] key:

Press this key in normal mode to enter editing mode; Press this key in editing mode to return the current status to the previous level of directory. After entering editing mode, if there is no button for 30 seconds, the lamp will automatically exit editing mode.

[Up] key:

Press this key in normal mode to increase the address value; Continuously holding down this key will

quickly increase the address value. If there is no button pressed for 30 seconds, it will automatically exit the flashing state. Pressing this key in editing mode will select the function menu in the current level directory in order from bottom to top (see table below).

[Down] key:

Pressing this key in normal mode will decrease the address value: holding down this key continuously will quickly decrease the address value. If there is no button pressed for 30 seconds, it will automatically exit the flashing state. Pressing this key in editing mode will select the function menu in the current level directory in order from top to bottom (see table below).

[OK] key:

Pressing this key in normal mode has no effect. Pressing this key in editing mode will enter the next level directory of the current menu function item. For specific operations, please refer to the operations in each function menu

UP	Select the previous menu option
DOWN	Select the next menu option
ENTER	Confirm the option
MENU	Enter menu selection function
"left"	Display 180 ° Invert

Display automatic rotation function

The system can automatically rotate the display according to the direction of gravity, without the need for manual rotation. The automatic rotation function can also be turned off.

Manual control

This interface is used to control the current lighting fixture.

Press the "OK" button to enter editing mode. Press the "Up" and "Down" keys to change the channel value. Press "OK" again to save the modified values and exit editing. Press "Exit" to exit editing without saving the modified values.

System calibration

Press the "OK" button to enter.

option	function
stroke calibration	After entering the sub interface for stroke calibration, the Y-axis and focus motor stroke can be adjusted, with an adjustment range of 0-255,127 indicating no adjustment.
power calibration	After entering the sub interface for power calibration, the power of 12 LEDs can be adjusted, with an adjustment range of 0-255, 255 indicating maximum power.
white balance calibration	After entering the sub interface for white balance calibration,white balance of LED1-12 can be adjusted, with 255 indicating maximum white balance.
Other calibration	voice sensitivity calibration, as well as password modification.

Reset

Press the "Up" and "Down" keys to switch to reset mode, and press "OK" to reset directly.

option	function
Effect motor reset	Effect motor reset except for XY effect motor reset
XY axis reset	XY Scanning motor reset
All motors reset	Reset all motors and lamps

System information

Reset error information	If the red ERR indicator light is on, it indicates that the lighting fixture is running incorrectly. Detailed information can be viewed from this sub interface
DMX data monitoring	Receive the channel value of the console
Sensor information	Hall information
	X optocoupler information
	Y optocoupler information
Hardware version	Display the hardware version
Software Version	Display the software version

5. DMX channel

56DMX channel

Channel	Function	Value	Description
CH1	Tilt	0-255	0-270°
CH2	Tilt fine	0-255	0-1°
CH3	Tilt speed	0-255	fast to slow
CH4	Zoom	0-255	far to close
CH5	Dimmer	0-255	0-100% dimmer
CH6	Dimmer fine	0-255	8bits dimmer
CH7	strobe	0-3	open
		4-200	Simultaneous strobe slow to fast
		201-205	open
		206-255	random strobe
CH8	reset	0-100	no effect
		101-160	all reset
		161-255	no effect
CH9	LED1_R	0-255	LED1 red dimmer 0-100%
CH10	LED1_G	0-255	LED1 green dimmer 0-100%
CH11	LED1_B	0-255	LED1 blue dimmer 0-100%
CH12	LED1_W	0-255	LED1 white dimmer 0-100%
CH13	LED2_R	0-255	LED2 red dimmer 0-100%

CH14	LED2_G	0-255	LED2 green dimmer 0-100%
CH15	LED2_B	0-255	LED2 blue dimmer 0-100%
CH16	LED2_W	0-255	LED2 white dimmer 0-100%
CH17	LED3_R	0-255	LED3 red dimmer 0-100%
CH18	LED3_G	0-255	LED3 green dimmer 0-100%
CH19	LED3_B	0-255	LED3 blue dimmer 0-100%
CH20	LED3_W	0-255	LED3 white dimmer 0-100%
CH21	LED4_R	0-255	LED4 red dimmer 0-100%
CH22	LED4_G	0-255	LED4 green dimmer 0-100%
CH23	LED4_B	0-255	LED4 blue dimmer 0-100%
CH24	LED4_W	0-255	LED4 white dimmer 0-100%
CH25	LED5_R	0-255	LED5 red dimmer 0-100%
CH26	LED5_G	0-255	LED5 green dimmer 0-100%
CH27	LED5_B	0-255	LED5 blue dimmer 0-100%
CH28	LED5_W	0-255	LED5 white dimmer 0-100%
CH29	LED6_R	0-255	LED6 red dimmer 0-100%
CH30	LED6_G	0-255	LED6 green dimmer 0-100%
CH31	LED6_B	0-255	LED6 blue dimmer 0-100%
CH32	LED6_W	0-255	LED6 white dimmer 0-100%
CH33	LED7_R	0-255	LED7 red dimmer 0-100%
CH34	LED7_G	0-255	LED7 green dimmer 0-100%
CH35	LED7_B	0-255	LED7 blue dimmer 0-100%
CH36	LED7_W	0-255	LED7 white dimmer 0-100%
CH37	LED8_R	0-255	LED8 red dimmer 0-100%
CH38	LED8_G	0-255	LED8 green dimmer 0-100%
CH39	LED8_B	0-255	LED8 blue dimmer 0-100%
CH40	LED8_W	0-255	LED8 white dimmer 0-100%
CH41	LED9_R	0-255	LED9 red dimmer 0-100%
CH42	LED9_G	0-255	LED9 green dimmer 0-100%
CH43	LED9_B	0-255	LED9 blue dimmer 0-100%
CH44	LED9_W	0-255	LED9 white dimmer 0-100%
CH45	LED10_R	0-255	LED10 red dimmer 0-100%
CH46	LED10_G	0-255	LED10 green dimmer 0-100%
CH47	LED10_B	0-255	LED10 blue dimmer 0-100%
CH48	LED10_W	0-255	LED10 white dimmer 0-100%
CH49	LED11_R	0-255	LED11 red dimmer 0-100%
CH50	LED11_G	0-255	LED11 green dimmer 0-100%
CH51	LED11_B	0-255	LED11 blue dimmer 0-100%
CH52	LED11_W	0-255	LED11 white dimmer 0-100%
CH53	LED12_R	0-255	LED12 red dimmer 0-100%
CH54	LED12_G	0-255	LED12 green dimmer 0-100%
CH55	LED12_B	0-255	LED12 blue dimmer 0-100%
CH56	LED12_W	0-255	LED12 white dimmer 0-100%

18DMX channel

Channel	Function	Value	Description
CH1	Tilt	0-255	0-270°
CH2	Tilt fine	0-255	0-1°
CH3	Tilt speed	0-255	fast to slow
CH4	Zoom	0-255	far to close
CH5	Dimmer	0-255	0-100% dimmer
CH6	Dimmer fine	0-255	8bits dimmer
CH7	strobe	0-3	open
		4-200	Simultaneous strobe slow to fast
		201-205	open
		206-255	random strobe
CH8	red dimmer	0-255	LED red dimmer 0-100%
CH9	green dimmer	0-255	LED green dimmer 0-100%
CH10	blue dimmer	0-255	LED blue dimmer 0-100%
CH11	white dimmer	0-255	LED white dimmer 0-100%
CH12	effect	0-11	dimmer mode
		12-13	effect 1
		14-16	effect 2
	
		212-214	effect 68
		215-217	effect 69
		218-220	effect 70
		221-255	effect 71
CH13	speed	0-255	fast to slow
CH14	effect direction	0-127	clockwise
		128-255	anti-clockwise
CH15	foreground color	0-255	red to purple color fading
CH16	background color	0-255	red to purple color fading
CH17	background dimmer	0-255	dimmer 0-100%
CH18	reset	0-100	no effect
		101-160	all reset
		161-255	no effect

6. DMX-512 connection

Connect the provided XLR cable to the male 3-pin XLR output of your controller and the other side to the female 3-pin XLR input of the light. then connect the DMX signal to the first fixture to the 2nd fixture, after all fixtures are connected,

The signal cable should be two - core with screened cable with XLR input and output connectors. Please refer to the diagram below.

3-Pin DMX output



3-Pin DMX input



- 1. Ground
- 2. Signal -
- 3. Signal +

DMX terminator connection

If there are many lines or lights, it is recommended to use a DMX terminator to prevent DMX signal corruption, the DMX terminator is a simple XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain.

7. DMX address setting

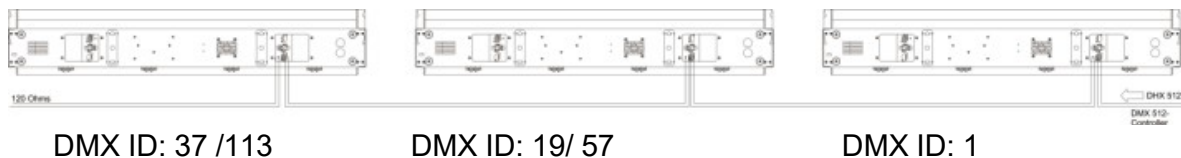
Each fixture must set a specific starting address. When receiving signal, fixture will receive channel control signals of this address from the DMX controller.

For easy to use, the user can set the same address for several fixtures, also can set up a unique address for every device.

If you set the same address for all fixtures, all the fixtures will receive from the same DMX channels signal. All connecting fixtures are jointly controlled, controller can't separately control a device.

If you set a different address for each fixture, each fixture will receive unique signal and can be controlled by DMX controller separately.

This fixture has 18/56 channels. you should set the starting address of the first unit to 1, the second unit to $19(18 + 1)/57(56 + 1)$, the third unit to $37 (36+1) / 113(112+1)$, and so on.



8. Cleaning and maintenance

Cleaning should be performed every 15-day period, by using a sponge which is dipped with alcohol, rather than wet cloth or other chemical liquid, to clean the mirror.

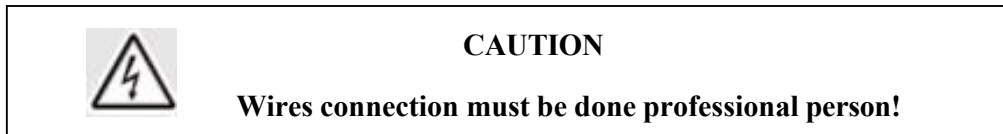
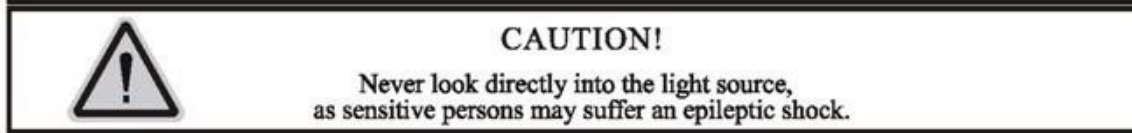


CAUTION

Cut off power before cleaning and maintenance!

Attention

Do not see directly light source when open the light, and make sure power off before do any installation or maintenance.



Warranty

Please refer to your local dealer or contact Event Lighting.
www.event-lighting.com.au