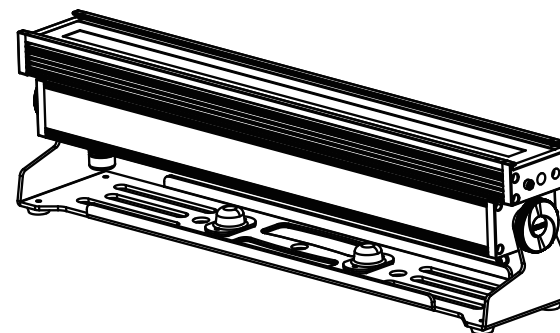


MOBI Led Washer

LASERFX
WWW.LASERFX.RU



Please read carefully before use

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

Introduction

Packaging: Thanks for your purchasing the AB027B. All the lights have been checked and are in excellent operating condition. Please check the shipping carton first, because there may be damage occurred during the shipment. Then check the lights carefully and be sure that the lights is intact and works normally. In the event damage has been found, spare parts are missing or the lights works abnormally, please contact us for further instructions. And please don't return the lights to the dealer before contacting us.

Introduction: The AB027B has three operating modes: DMX mode, Auto mode and Master/Slave mode. And the lights has five DMX modes, including channel 2, channel 3, channel 5, channel 8 and channel 11. In addition, you can connect several pieces of lights in DMX mode and set one in Auto mode, and the others in Master/Slave mode. And then all the lights in Master/Slave mode will run following the one in Auto mode. Using fog or special effect smoke, you can see better showing effect.

SAFETY AND HANDLING

Before you operate this unit read the manual carefully. Always make sure to include the manual if you pass/rent/sell the unit to another user. Keep in mind that this manual cannot address all possible dangers and environments. Please use your own caution when operating. This product is for professional use only. It is not for household use.




- Do not operate the unit in areas of high temperature conditions. It will cause abnormal function or damage the product.
- Always use a suitable safety wire when mounting the light overhead.
- Connect the safety wire only to the intended safety mount.
- Always follow local safety requirements.



- Only qualified personnel may repair this product.
- Do not open the product housing.
- Do not apply power if the light is damaged.

4. During the flashing of the remote control light, the lamp flashes 3 times, which means that the connection is successful.

5. After the match is successful, when the remote control light is on, it means that the group of lamps is being controlled.

6. If there are multiple lamps that need to be connected, please repeat the above steps and press the  button to select different groups for connection. (Each group can connect up to 50 lamps.)

7. The furthest remote control distance of this product is about 50 meters. No need to rematch after power failure.



- Do not directly look into the light.
- It can cause harm to your eyes.
- Do not look at the LEDs with a magnifying glass or any other optical instrument that may concentrate the light output.



- The exterior surfaces of the light can become hot, up to 70°C during normal operation.
- Ensure that accidental physical contact with the device is impossible.
- Install only in ventilated locations.
- Do not cover the light.



- LI-ION Battery: A rechargeable lithium ion battery is built into this unit.
- Only authorized personal may service the battery.
 - Do not place in fire or heat.
 - Do not use or charge the light if it is damaged.
 - Avoid bumping or plunging, it may cause fire or explosion.
 - Never store the battery when fully drained.
 - Always recharge immediately when empty.
 - Make sure to fully charge all units before storing them.
 - Partially charged batteries will lose capacity.
 - The battery may only be replaced with an original spare part.



- Always charge with the flight case open.
- It is recommended to charge at a temperature between 15°C and 35°C



- The light contains a lithium ion battery.
- Don't throw the unit into the garbage at the end of its lifetime.
- Make sure to dispose is according to your local ordinances and/or regulations, to avoid polluting the environment!
- The packaging is recyclable and can be disposed.

Troubleshooting

The fixture does not turn on.

The battery may be empty. Connect it to the power cable and try again.

The fixture turns on and the display is on, but the LEDs do not emit light.

The fixture could be set to BLACKOUT mode, set to is DMX Hold and doesn't receive a valid signal. It is good practice to do a Factory Reset.

The fixture is not working correctly - it does not display the color or effect chosen.

The fixture may still be operating under a previous setting. It is good practice to do a Factory Reset.

After completing a RESET SETTINGS, the fixture still cannot be controlled.

Please turn off the light and turn on again, if cannot be controlled, too, please consult authorized personal.

The fixture does not run long enough on battery.

The required RUNTIME can be set. It defaults to several hours. To achieve a greater battery runtime, set the RUNTIME to the required value.

Alternatively, program the fixture to only display colors that use less power, such as Red, Green, Blue and White.

If the runtime is still too short, consider that it is reduced slightly if the battery is very cold.

The power cable is connected but the fixture is not charging.

The battery may be fully charged. Please read our user manual for more details. The fixture will only commence charging when its battery has a temperature of 45° or less. Turn the fixture off and let it cool down; once cold enough, it will start charging. If it still not charging, please consult authorized personal.

2.4G Remote



Power on/off button

Press and hold the power button for 3 seconds to turn on/off the remote control, short press the control light switch



DMX button, to control DMX address when press this button. It is SLAVE mode when double click.



The first one is Auto Mode. It is Speed mode when double click.



The first one is Sound Mode. It is Speed mode when double click.



Strobe mode button



Up and down button, you can choose the program that you need or numerical.



Switching group button

Press and hold the button for 5 seconds to enter matching mode



Group indicator light



Press color button enter color menu




Color choosing button.




You can use these number button to adjust numerical in any program mode.

How to connect 2.4G remote control

1. Press and hold the  button for 3 seconds to turn on or off the power of the remote control (the indicator light indicates that the remote control is turned on, and the remote control power will be automatically turned off after 1 minute of no operation).

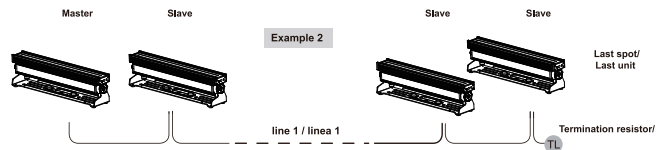
!!The indicator light will automatically turn off after 1 minute of use and need to be pressed again for 3 seconds to turn on again.

2. Press and hold the  button for 5 seconds, the indicator blinks, enters the matching mode, and automatically exits the pair mode after 20 seconds.

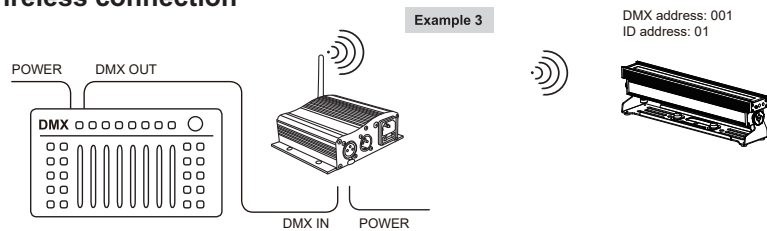
3. Turn on the light and enter [SETUP] → [REMOTE] → [ON], press the [ENTER] key to enter the matching mode. (If [ON] is displayed in the [REMOTE] mode during startup, you need to press the [ENTER] key again to enter the matching mode.)

Connection

Master / Slave connection



Wireless connection



Press “ENTER” button and then “UP” or “DOWN” button until “SET UP” is showed.
Press “ENTER” button and then “UP” or “DOWN” button until “Wireless rel” is displayed, press ENTER button. Then press DMX Mode is ok.
Then, until Green wireless signal is displayed. Then Wireless DMX connected success.

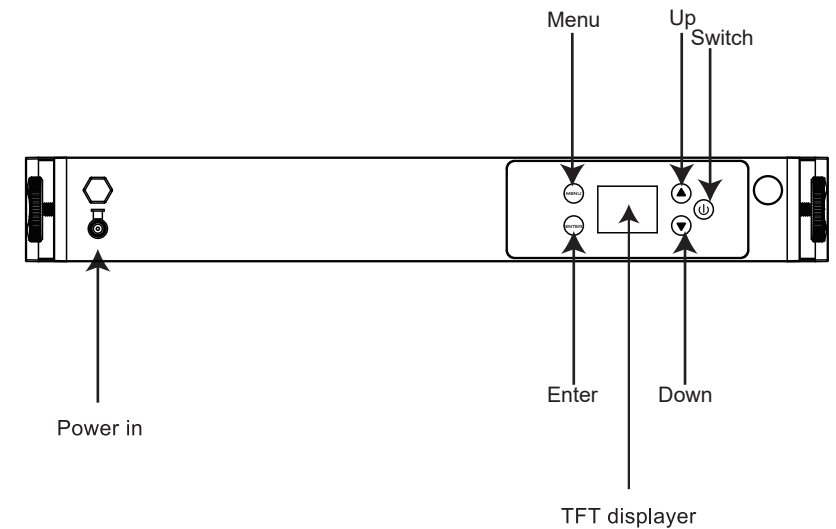
About the condition of wireless signal, Green represents the successful setting, while red represents the signal is unsuccessful.

Release wireless DMX signal

Press “ENTER” button and then “UP” or “DOWN” button until “Wireless rel” is showed.
Press “ENTER” button and then “UP” or “DOWN” button until “press +/-” is displayed, press “UP” or “DOWN” button, long press “UP” or “DOWN” button about 5-6 seconds. Until “Initialization” to “Release finish” is displayed. It means release signal successfully.

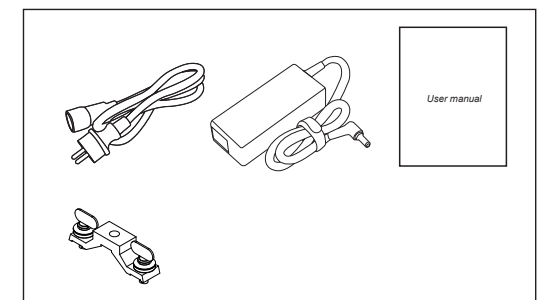
Please noted:The wireless controller hangs on will be in a good position,the antenna of the products should be face to the controller can be used within 200M.

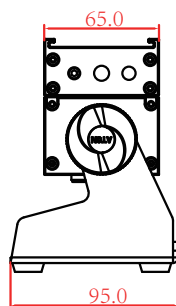
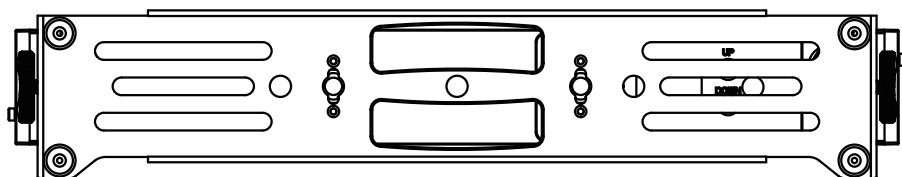
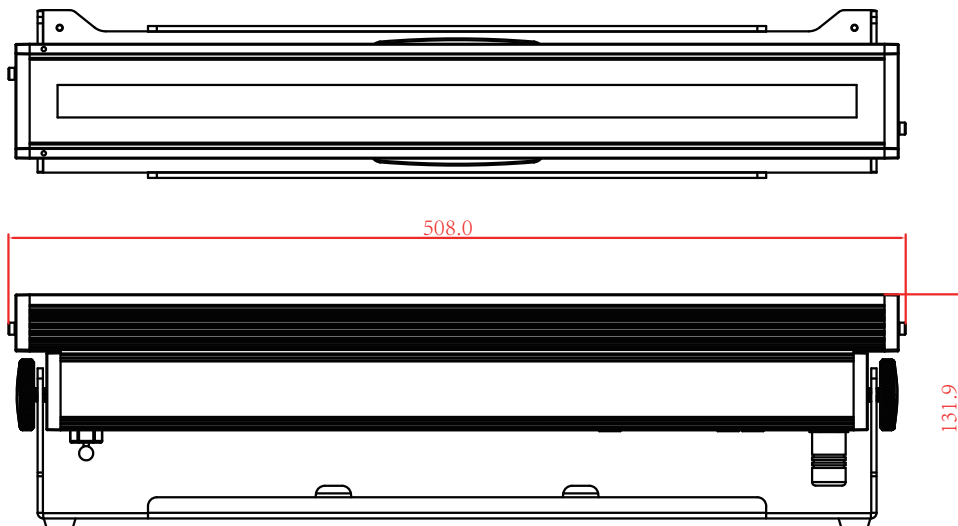
Mechanical Specification



Package Contents

- 1 x Power cable
- 1 x Power adapter
- 1 x User manual
- 1 x Fast lock

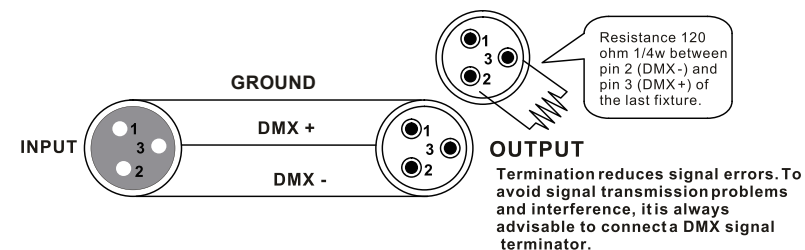




CABLE CONNECTORS

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

DMX connector configuration



caution: Do not allow contact between the ground and the fixture's chassis ground. Grounding the ground can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify positive pole and to make sure the pins are not grounded or shorted to the shield or each other.

3-PIN TO 5-PIN CONVERSION CHART

Note! If you use a controller with a 5 pin DMX output connector, you need to use a 5 pin to 3 pin adapter. The chart below details a proper cable conversion:

3-PIN TO 5-PIN CONVERSION CHART

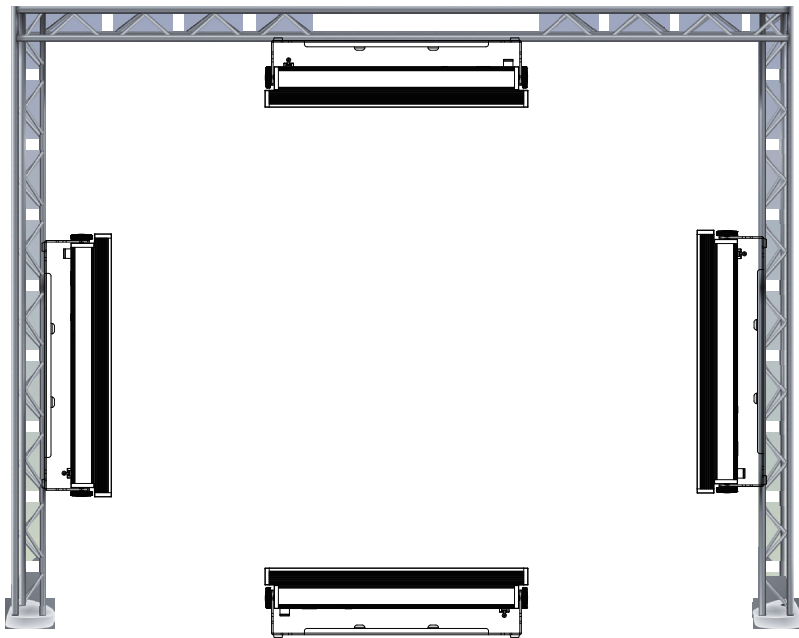
Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

Mounting

When installing the unit, the trussing or area of installation must be able to hold 10 times the weight without any deformation. When installing the unit must be secured with a secondary safety attachment, e.g. and appropriate safety cable. Never stand directly below the unit when mounting, removing, or servicing the unit.

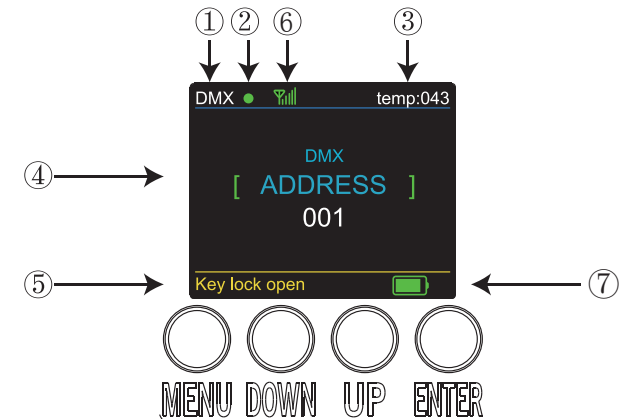
Overhead mounting requires extensive experience, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and unit. If you lack these qualifications, do not attempt the installation yourself.

The installation should be checked by a skilled person once a year.

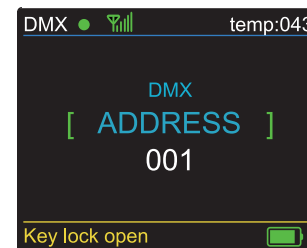


The AB027B is fully operational in three different mounting positions, hanging upside-down from a ceiling, set on a flat level surface or mount the unit on its side. Be sure this fixture is kept at least 0.5m away from any flammable materials (decoration etc.). And you'd better use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails (see next page).

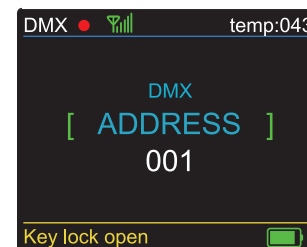
Displayer Introduction



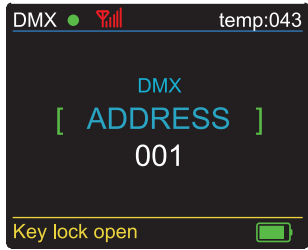
1. When you enter DMX Mode, it will be showed DMX, when you enter SLAVE Mode, it will be showed SLAVE.
2. This shows the condition of signal transmission. Green is connected. Red is disconnected.
3. This shows the temperature of the lights.
4. This shows the menus you can select.
5. This shows the condition of key lock. "Key lock open" means it is open and "Key lock off" means it is close.
6. This shows the condition of wireless signal. Green is connected. Red is disconnected.
7. This shows the battery's electric quantity.



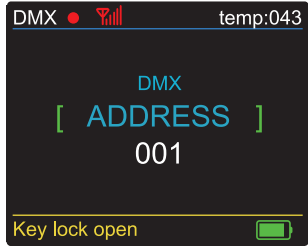
While DMX and Wireless signal are green, it means DMX Mode and Wireless are connected.



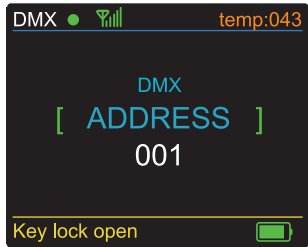
While DMX shows red but Wireless signal shows green, it means DMX Mode is disconnected and Wireless is connected.



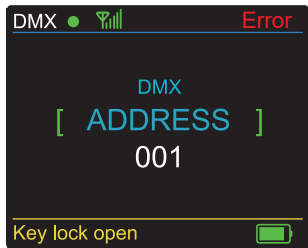
While DMX shows green but Wireless signal shows red, it means DMX Mode is connected and Wireless is disconnected.



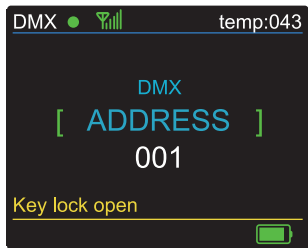
While DMX and Wireless are shown red, it means DMX Mode and Wireless are disconnected.



While the letters and number show change from white to yellow, it means the temperature is beyond the maximum temperature of default settings.



While the letters and number show Error, it means there are some temperature problems.



While the battery is charging, it will show running from empty to full. While you stop charging, it will show how much the electric quantity.

Strobe Sheet	
10-17	Normal 1
18-26	Normal 2
27-35	Normal 3
36-44	Normal 4
45-53	Normal 5
54-62	Normal 6
63-71	Normal 7
72-80	Normal 8
81-89	Normal 9
90-98	Normal 10
99-107	Normal 11
108-116	Normal 12
117-125	Normal 13
126-134	Normal 14
135-143	Normal 15
144-152	Normal 16
153-161	Normal 17
162-170	Normal 18
171-179	Normal 19
180-188	Normal 20
189-189	Normal 20
190-199	None
200-209	Random 2
210-219	Random 3
220-229	Random 4
230-239	Random 5
240-249	Random 6
250-255	None

Dimmer Speed Sheet	
0-49	Default
50-99	1
100-149	2
150-189	3
190-198	4
199-255	5

CCT Sheet	
1-23	2500k
24-47	3000K
48-71	3500K
72-95	4000K
96-119	4500K
120-143	5000K
144-167	6000K
168-191	7000K
192-215	8000K
216-239	9000K
240-255	10000K

Auto Sheet	
8-23	atuo1
24-39	atuo2
40-55	atuo3
56-71	atuo4
72-87	atuo5
88-103	atuo6
104-119	atuo7
120-135	atuo8
136-151	atuo9
152-167	atuo10
168-183	atuo11
184-199	atuo12
200-215	atuo13
216-231	atuo14
232-255	atuo15

DMX-In this menu,you can connect several pieces of lights with DMX cable and control them with control console.

1. Press "ENTER" button and then UP or DOWN button until "DMX " is showed.
2. Press "ENTER" button, and "CHANNEL" or "ADDRESS" will be showed.Then press ENTER.
 - 1) "Channel [xx]" will be showed, "X" represents the showed DMX channel mode. You can press the UP or DOWN button to select your desired Channel mode.
 - 2) "xxx" will be showed, "x" represents the showed address. You can press the UP or DOWN button to select your desired address.

RUN MODE-In this menu, you can select DMX mode or SLAVE mode.In SLAVE mode,you can select one light as the MASTER light and other lights in SLAVE mode will run following the MASTER light.

1. Press "ENTER" button and then UP or DOWN button until "RUN MODE" is showed.
- 2.Press "ENTER" button, and"DMX" or "SLAVE" will be showed, then press ENTER to select your desired mode.

SET UP-In this menu, you can adjust the value of the function.

1. Press "ENTER" button and then UP or DOWN button until "SET UP" is showed.
2. Press "ENTER" button, and there will be nine options. Then,press ENTER to select the option and press UP or DOWN button to select the value you desire as below.
 - 1) ID number - You can select an ID Number in this menu.Then, you can adjust the value of channel 11 to the corresponding scope and control the light individually with control console.
 - 2) Display Led - In this item,you can select "ON" or "OFF".If you select ON,the displayer will be on all the time.And if you select OFF,the displayer will extinguish about ten seconds later.
 - 3) Key locks - You can select whether the password is on or off in this menu , and the password is [DOWN] + [UP] + [DOWN] + [UP] .If you select "on",then you have to input the password before pressing the buttons.Otherwise,the light won't respond to your order.
 - 4) Max temp - You can set the your desired Max working temperature about the light in this menu.When the working temperature of the light exceeds the Max temperature, the color of letter "Temp xx" showed in the menu will change from white to yellow.Meanwhile, the light will adjust the working temperature automatically.
 - 5) Dimmer RED - You can adjust the red brightness in this menu.
 - 6) Dimmer GREEN - You can adjust the green brightness in this menu.
 - 7) Dimmer BLUE - You can adjust the blue brightness in this menu.
 - 8) Dimmer WHITE - You can adjust the white brightness in this menu.
 - 9) Dimmer ALL - You can adjust the brightness of each color in this menu.

INFORMATION-In this menu, you can learn about the information of software, hardware and the working time of the light.

1. Press "ENTER" button and then UP or DOWN button until "INFORMATION" is showed.
2. Press "ENTER" button, and"Software" "Hardware" or "Fix times" will be showed. Then press ENTER, and you can see three items as below:
 - 1) Software - This item displays the Software information.
 - 2) Hardware - This item displays the Hardware information.
 - 3) Fix times - This item displays the working hours about the light.

AUTO-In this menu, you can select your desire AUTO mode and adjust the running speed.

1. Press "ENTER" button and then UP or DOWN button until "AUTO" is showed.
2. Press "ENTER" button, and "SPEED" or "AUTO MODE" will be showed. Then press ENTER, and you can see two items as below:
 - 1) SPEED - You can select your desired speed in this menu.
 - 2) AUTO MODE - You can select your desired auto mode in this menu.

CUSTOMER-In this menu, you can select the AUTO program edited in the "EDIT" menu.

1. Press "ENTER" button and then UP or DOWN button until "CUSTOMER" is showed.
2. Press "ENTER" button, and there are 11 pre-programmed mode edited in the "EDIT" menu.

CAL WHITE-In this menu, you can adjust the value of 11 different white color.

1. Press "ENTER" button and then UP or DOWN button until "CAL WHITE" is showed.
2. Press "ENTER" button, and there are 11 pre-programmed White colors that can be edited by adjusting the value of "Red", "Green", "Blue" and "White"

STAT COLOR-In this menu, you can adjust the value of static color and strobe speed as you like.

1. Press "ENTER" button and then UP or DOWN button until "STAT COLOR" is showed.
2. Press "ENTER" button, and there are six options. Then press ENTER to select the option and press UP or DOWN button to select the value you desire as below:
 - 1) STAT RED - You can adjust the red brightness in this menu.
 - 2) STAT GREEN - You can adjust the green brightness in this menu.
 - 3) STAT BLUE - You can adjust the blue brightness in this menu.
 - 4) STAT WHITE - You can adjust the white brightness in this menu.
 - 5) SELET COLOR - You can select 52 static color in this menu.
 - 6) STAT STROB - You can adjust the strobe speed in this menu.

EDIT-In this menu, you can edit your desired AUTO program.

1. Press "ENTER" button and then UP or DOWN button until "EDIT" is showed.
2. Press "ENTER" button, and open the "EDIT" mode to edit the custom programs from "PR.01" to "PR.11". And there are 32 scenes that can be edited in each custom program.
3. You can edit a scene by adjusting the value of "RED (0~255)", "GREEN (0~255)", "BLUE (0~255)", "WHITE (0~255)", "FADE (0~31)", "FLASH(0~50)", "STROBE (0~31)" & "TIME (0~100)" as you like. Then the data will be saved, when you press the ENTER button for 5 seconds.

UPLOAD-In this menu, you can connect several pieces of lights with MAX cables and set one light as the MASTER and others in SLAVE mode. Then upload the custom program in the MASTER light to the lights in SLAVE mode.

1. Press "ENTER" button and then UP or DOWN button until "UPLOAD" is showed.
2. Press "ENTER" button to upload the custom programs from the MASTER light to the SLAVE ones.

RESET-In this menu, you can reset all the value of the system.

1. Press "ENTER" button and then UP or DOWN button until "RESET" is showed.
2. Press the ENTER button to reset all the value of the system.

DMX control sheet

Macro Color Sheet	
24-27	color 1
28-31	color 2
32-35	color 3
36-39	color 4
40-43	color 5
44-47	color 6
48-51	color 7
52-55	color 8
56-59	color 9
60-63	color 10
64-67	color 11
68-71	color 12
72-75	color 13
76-79	color 14
80-83	color 15
84-87	color 16
88-91	color 17
92-95	color 18
96-99	color 19
100-103	color 20
104-107	color 21
108-111	color 22
112-115	color 23
116-119	color 24
120-123	color 25

124-127	color 26
128-131	color 27
132-135	color 28
136-139	color 29
140-143	color 30
144-147	color 31
148-151	color 32
152-155	color 33
156-159	color 34
160-163	color 35
164-167	color 36
168-171	color 37
172-175	color 38
176-179	color 39
180-183	color 40
184-187	color 41
188-191	color 42
192-195	color 43
196-199	color 44
200-203	color 45
204-207	color 46
208-211	color 47
212-215	color 48
216-219	color 49
220-222	color 50
223-255	color 52

DMX control mode

MODE 2 CHANNELS		
Channel	Value	Function
1	000 - 255	Color
2	000 - 255	WHITE MACRO

MODE 3 CHANNELS		
Channel	Value	Function
1	000 - 255	HUE
2	000 - 255	Saturation
3	000 - 255	Value

MODE 5 CHANNELS		
Channel	Value	Function
1	000 - 255	Dimmer
2	000 - 255	Dimmer speed
3	000 - 255	Red
4	000 - 255	Green
5	000 - 255	Blue

MODE 8 CHANNELS		
Channel	Value	Function
1	000 - 255	Dimmer
2	000 - 255	Dimmer speed
3	000 - 255	Strobe
4	000 - 255	Red
5	000 - 255	Green
6	000 - 255	Blue
7	000 - 255	Auto 1-15
8	000 - 255	Auto speed

MODE 11 CHANNELS		
Channel	Value	Function
1	000 - 255	Dimmer
2	000 - 255	Dimmer speed
3	000 - 255	Strobe
4	000 - 255	Red
5	000 - 255	Green
6	000 - 255	Blue
7	000 - 255	Color
8	000 - 255	WHITE MACRO
9	000 - 255	Auto 1-15
10	000 - 255	Auto speed
11	000 - 255	Id address set

Features

Optical Data

- Lightsource: 27*0.5W RED+27*0.8W GREEN+27*0.8W BLUE
- Native lens options: 60*10°
- Color Temperature (at full): 2500K - 10000K
- CRI: 43
- Power: 100W
- LED PWM: 600 / 1200 / 2400 / 4800 / 9600 / 15000 (HZ)

Battery

- Battery working time @ full light: 2 - 2.5h
- Battery working time @ auto: 6 - 7h
- Battery charging time: 4 - 5h
- DC input

Photometric

- Efficacy: 25.43 lm/W
- Light output all LEDs on: 2156 lm
- Light output blue: 182.3 lm / green: 1378 lm / red: 652.7 lm
- Lux @2m: 880.4 , 1153 lx
- Lux @5m: 140.9 , 184.5 lx
- Lux @8m: 55.02 , 72.06 lx
- Lux @10m: 35.22 , 46.12 lx

Physical

- Color options: Fine sand black
- IK rating: IK07
- IP class: IP65
- Lens material: Silica gel
- Material: Aluminium alloy
- Net dimensions: 500*95*132 mm
- Net weight: 3.64 kg

Electrical

- Input voltage, absolute max. Rating: 100 - 240V 50/60Hz
- Input voltage, nominal: 100 - 240VAC 50/60Hz
- Max power consumption: 100.4 W
- Constant power consumption: 70 W
- Power factor: PF = 0.492
- Standby power consumption: 35.6 W (Charging state)

Programming and Control

- 16-bit control
- DMX channels: 2/3/5/8/11 CH
- Protocol: DMX
- Wireless: China receiving and sending
- Range of wireless reception: 150 - 160 m
- IR remote: 2.4G
- Power Input: DC 18V 5A

Programme Menu

