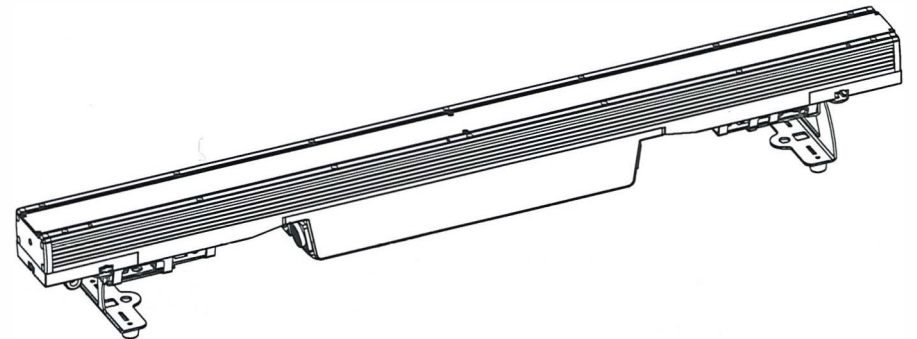




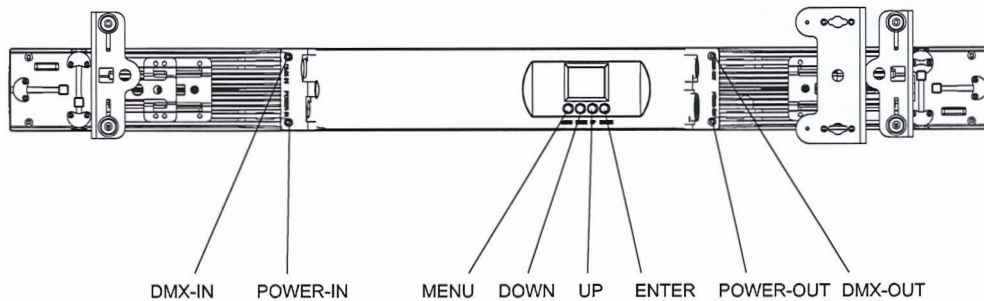
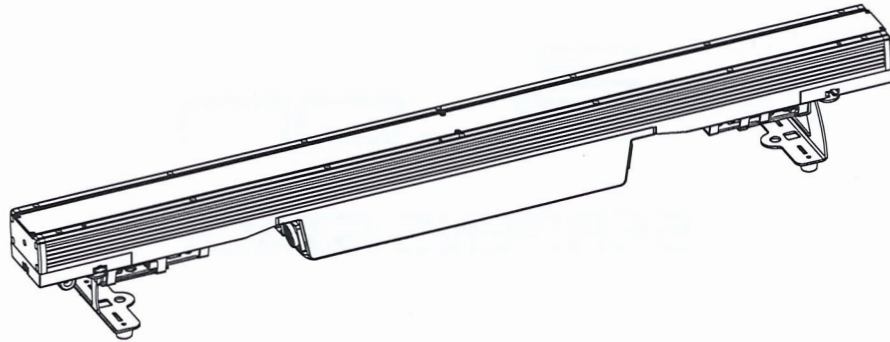
SERPENS-STACK-MK2



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.

Product Overview



RDM--Remote Device Management

RDM is a wild version of the DMX512-A protocol, allowing dimming stations and other control devices to be discovered through a DMX512 network, and then configuring, status monitoring, and managing intermediate and line end devices.

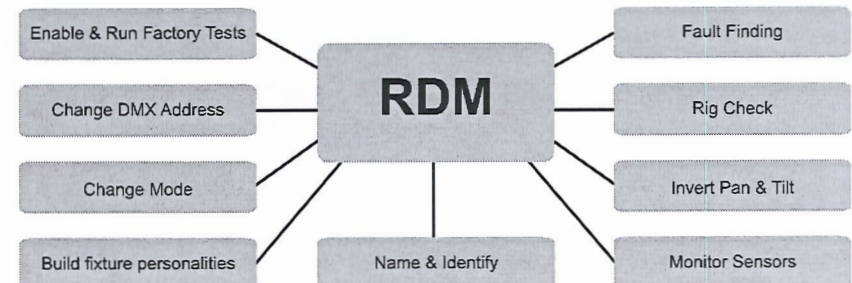
It allows two-way communication between the lighting device or system controller and the connected RDM compatible device through the standard DMX. This protocol will allow these devices to be configured, monitored, and managed in a manner that does not interfere with the normal operation of standard DMX512 devices that do not recognize the RDM protocol.

Allow a controller or test device to find other devices that can be RDM, such as computer lights or dimming cabinets, and remotely manage them through this connection intelligence. Including the ability to remotely set the initial address of the DMX512, query the device's errors or statistics, and achieve most of the configuration settings that are usually done on the front panel of the device. RDM can run with the new RDM device or any original DMX512 product on the same data link without any performance impact. Since RDM runs on the first team DMX512 link, the only infrastructure upgrade required by RDM is to upgrade the existing data distributor to implement a two-way mode to support RDM.

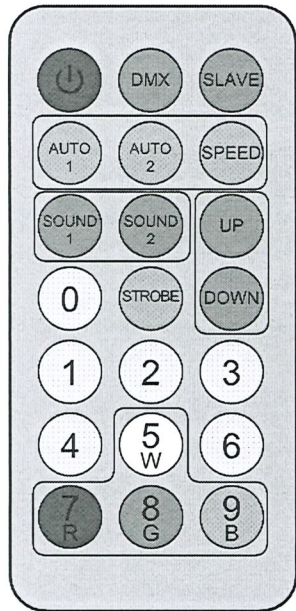
The RDM information is transmitted through the first pair of DMX512 data channels. RDM uses packets that include non-zero initial codes to start and control communications. This alternating(rotating) session and waiting for indicative responses is performed in a semi-duplex format. The second data pair is not used for any RDM function.







Two-way data transmission-each vendor's equipment can exchange data, Art-net can only transmit data, can not exchange with each other.


Its functions are as followed:



IR Controller



-  Power on/off button
-  DMX button, to control DMX address when press this button.
-  Master-slave mode button.
-   Automatic mode button
-  Speed adjustable button

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

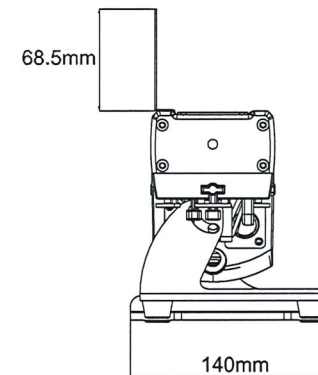
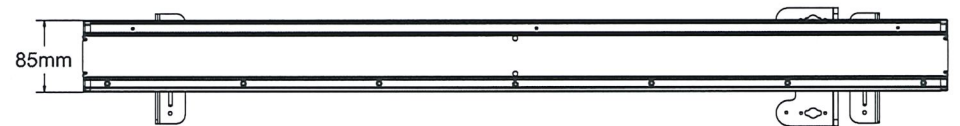
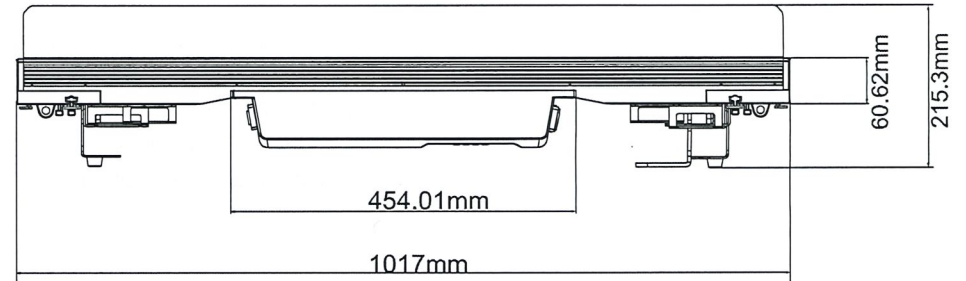
 Strobe button



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

    Color choosing button.

Mechanical Specification



Packaging: Thanks for your purchasing the SERPENS-STACK. All the lights have been checked and are in excellent operating condition. Please check the shipping carton first. Because there maybe damage occurred during the shipment. Then check the lights carefully and be sure that the light 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 light to the dealer before contacting us.

Introduction:The SERPENS-STACK has four operating modes: DMX mode, Auto mode, Master/Slave mode. And the light has seven DMX channel. DMX channel is including 3 channel, 8 channel, 12 channel, 48 channel and 53 channel. You can see 13 kinds of shows when you open the Auto mode .All 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.

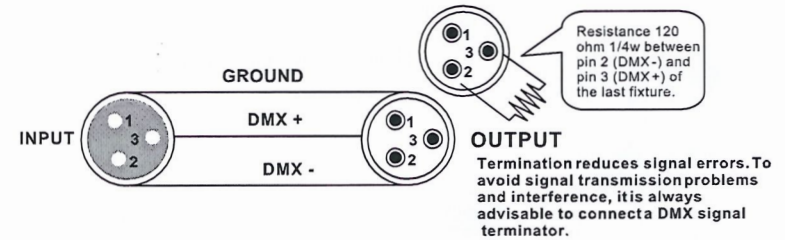
Warning!

- 1.For the sake of preventing the risk of electrical shock or fire.
- 2.Don't look directly at the opening lights all the time, or it may damage your eyes.

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:

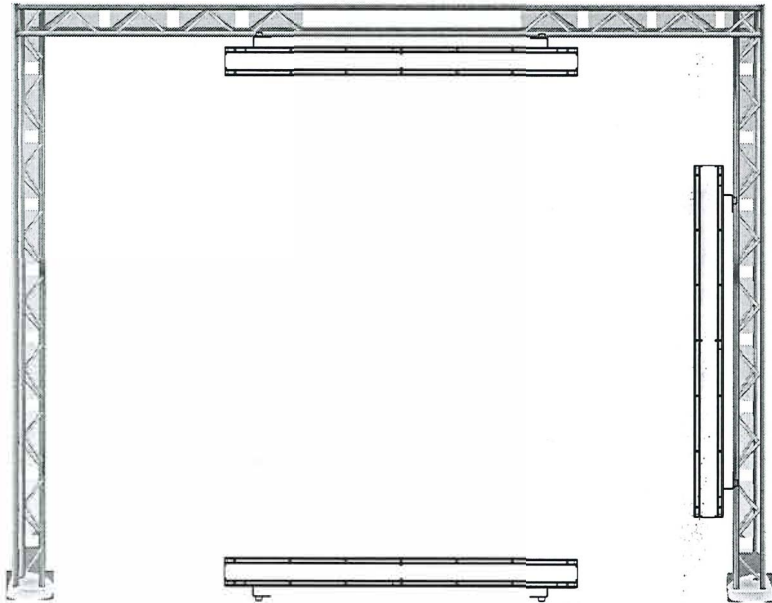
3-PIN TO 5-PIN CONVERSION CHART		
Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

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.



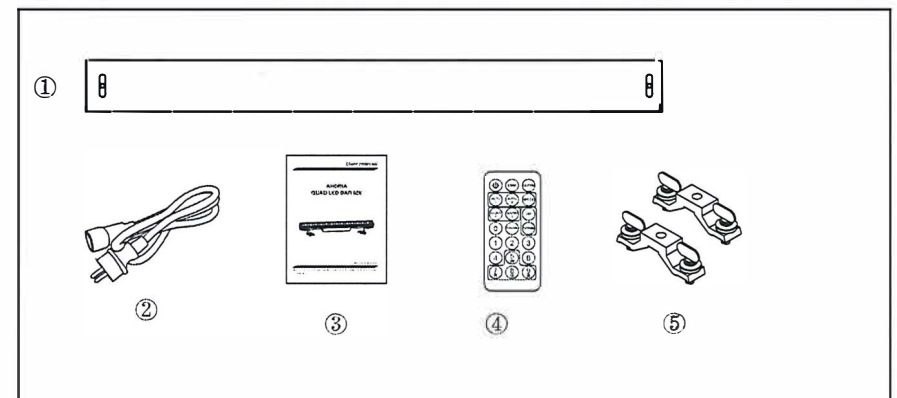
The SERPENS-STACK is fully operational in three different mounting positions, hanging upside-down from a ceiling, set on a flat level surface or mount the unit on its side. Be sure this fixture is kept at least 0.5m away from any flammable materials (decoration etc.). And you'd better use and install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

Features

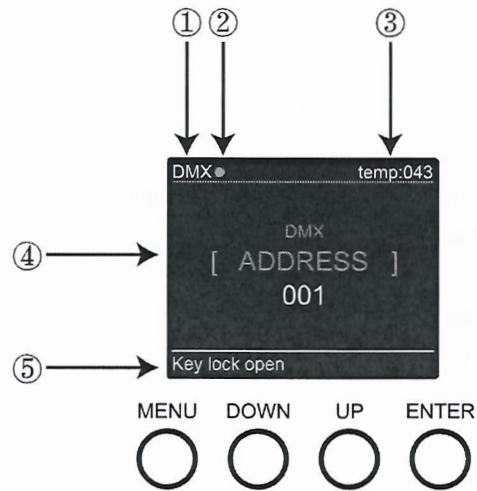
- Light Source: 12*15W, 4 in 1 RGBA LEDs
- Lens:15°
- Power consumption: 164W
- Voltage: AC 110-230V 50/ 60Hz
- Run mode: DMX 512 /Master Slave /Auto Run
- DMX channels: 3, 8, 12, 48 & 53 CH
- Built-in Effect: color mixing, variable color chasing, strobing and fading
- Fan controlled by PWM waves
- 4 dimmer curves
- TFT displayer with four buttons
- Material: Aluminum body
- IP65
- Temperature: -20°C~40°C
- Dimension:1017×140×216mm
- N.W: 9.1 KG
- G.W: 10.4KG

Accessory

- ① Frost filter x 1 (optional)
- ② Power cable x 1
- ③ User manual x 1
- ④ IR Controller x 1 (optional)
- ⑤ Fast lock x 2



Displayer introduction



1. DMX means the light is in the DMX mode. Similarly, SLAVE means the light is in the SLAVE mode.
2. The color of the point shows the condition of signal transmission. Green represents the good condition, while red represents the signal is interrupted.
3. The item shows the working temperature of the light. When the working temperature exceeds the max temperature, the color of the letters and number will change from white to yellow.
4. This item shows the menu you selected.
5. This item shows the condition of key lock. "Key lock open" means the key lock is open. And "Key lock off" means the key lock is close.

CCT-In this menu, you can choose the brightness you desired.

1. Press "ENTER" and then press "UP" or "DOWN" to "CCT".
2. Press "ENTER" you can choose from "2700K" to "8000K" as you need.

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

1. Press "ENTER" and then press "UP" or "DOWN" to "SET UP".
2. Press "ENTER" and there has 6 options, then press "UP" or "DOWN" to choose the value you desired as below:
 - 1) IR - You can press "ON" or "OFF" to choose whether you need to control by this mode.
 - 2) Dimmer All - You can adjust the brightness of colors.
 - 3) White Balance - You can select "RED" "GREEN" "BLUE" "WHITE" you need.
 - 4) Key Lock - You can choose "5s" or "OFF" to make the Key Lock turn on or off.
 - 5) Display - You can choose "ON" or "30s" to make the position of the light screen.
 - 6) Max temp - You can set the your desired Max working temperature of the light with passcode in this menu. When the working temperature beyond max temperature of default settings, the color of letter "Temp XX" will show the color from white to yellow. Meanwhile, the light will adjust the working temperature automatically.

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

1. Press "ENTER" and then press "UP" or "DOWN" to "INFORMATION".
2. Press "ENTER" and you can see 3 items as below:
 - 1) RDM - It shows RDM information.
 - 2) Hardware - It shows the Hardware information.
 - 3) Software - It shows the Software information.
 - 4) Working time - It shows the working time information.

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

1. Press "ENTER" and then press "UP" or "DOWN" to "FACTORY RESET".
2. Press "ENTER" and enter the passcode to reset all the values of the system.

WIRELESS-In this menu, you can set the Wireless signal.

1. Press "ENTER" and then press "UP" or "DOWN" to "WIRELESS".
2. Press "ENTER" and then choose "ON" or "OFF" to set the Wireless signal. "ON" is turn on the signal and "OFF" is turn off the signal.

Programme Menu

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

Press "ENTER" and then press "UP" or "DOWN" to "Address" or "DMX Channel" and press "ENTER".

- 1) "XXX" will be showed in "Address", "XXX" means the Address 001-512. You can press "UP" or "DOWN"to select the address you desired.
- 2) "Channel [xx]" will be showed in "DMX Channels", "XX" means 5 kinds of DMX Channels Modes. You can press "UP" or "DOWN" to select the Channel Mode you desired.

DIMMER CURVE-In this menu,you can choose the mode you desired.

1. Press "ENTER" and then press "UP" or "DOWN" to "Dimmer Curve" to choose as below modes.

2. Press "ENTER" you can see 4 items as below:

- 1) Standard
- 2) Stage/TV
- 3) Architec
- 4) Theatre

DMX STATE-In this menu,you can choose the DMX signal you desired.

1. Press "ENTER" and then press "UP" or "DOWN" to "DMX STATE".

2. Press "ENTER" and you can choose "Blackout" or "DMX Hold"; "Blackout" means cut off the DMX signal and "DMX Hold" means connect DMX signal.

SLAVE MODE-In this menu, you can choose one light as the MASTER light and other lights in SLAVE Mode will run follow the MASTER light.

1. Press "ENTER" and then press "UP" or "DOWN" to "SLAVE Mode".

2. Press "ENTER" and "SLAVE" will be showed, then press "ENTER" to choose.

AUTO MODE-In this menu, you can choose your desired AUTO Mode and adjust the running speed.

1. Press "ENTER" and then press "UP" or "DOWN" to "AUTO MODE".

2. Press "ENTER" you can see 2 items as below:

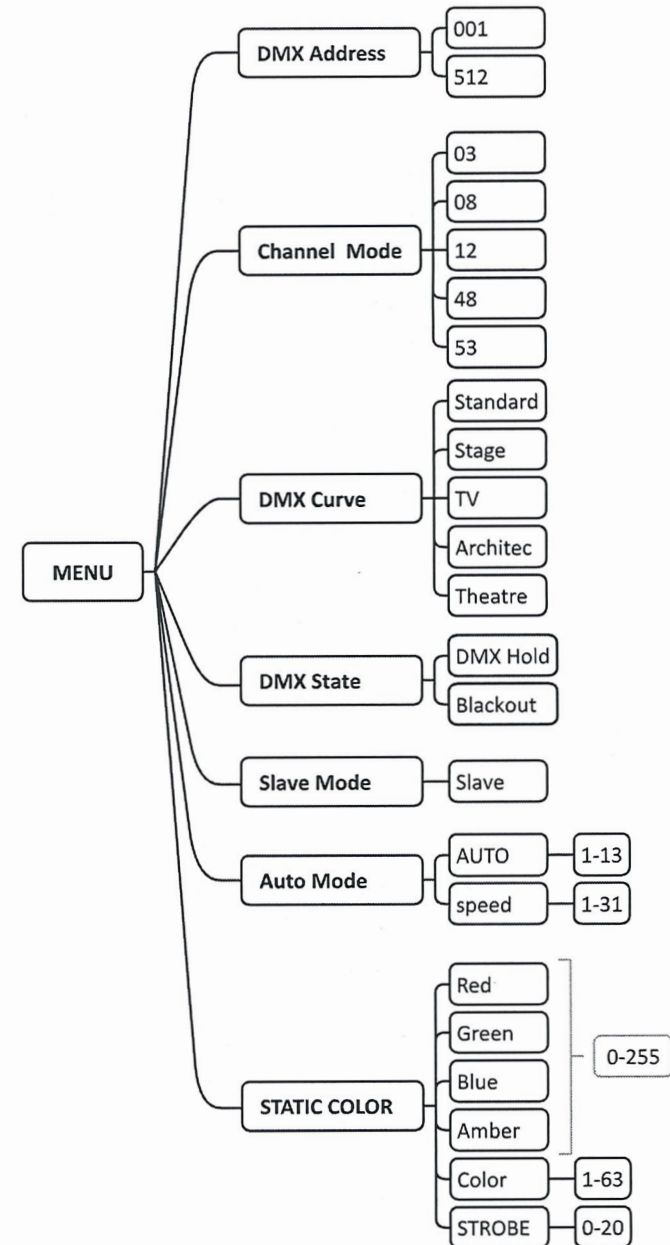
- 1) SPEED - It provides "01-31" for you choose.
- 2) AUTO MODE - It provides "AUTO 1- AUTO 13" for you choose.

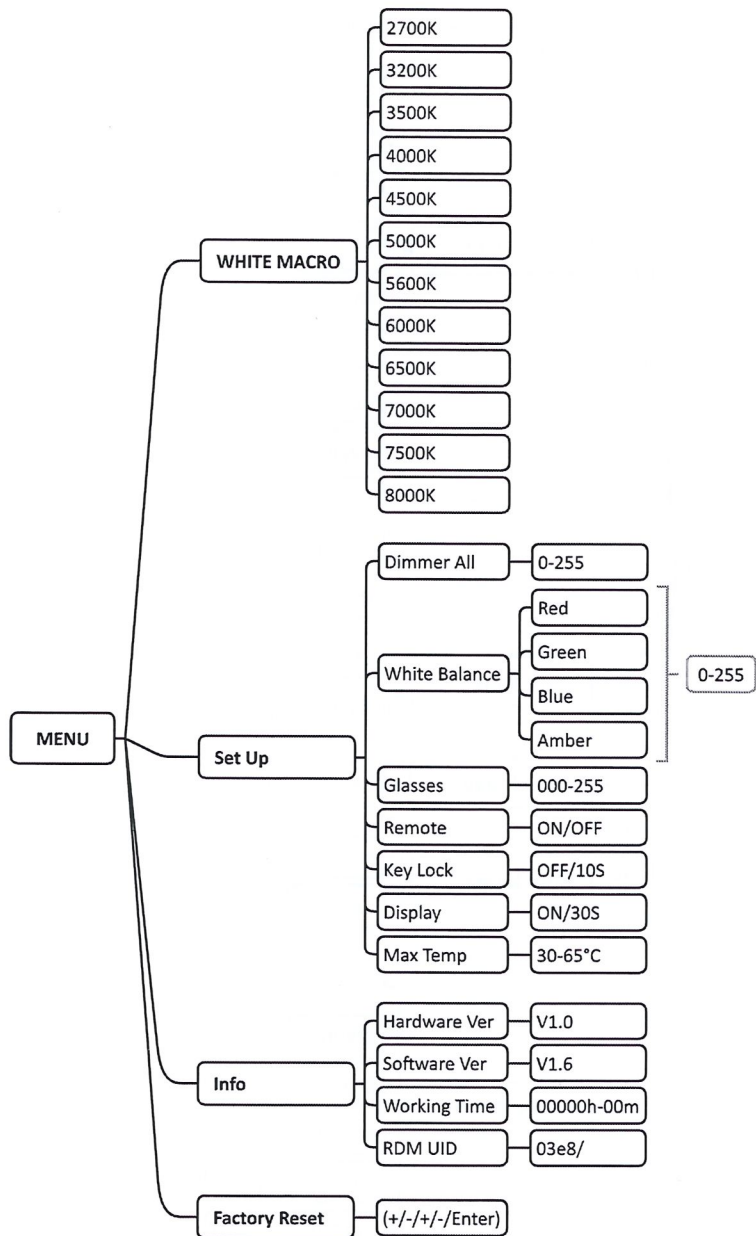
STATIC COLOR-In this menu,you can choose the modes you need.

1. Press "ENTER" and then press "UP" or "DOWN" to "AUTO MODE".

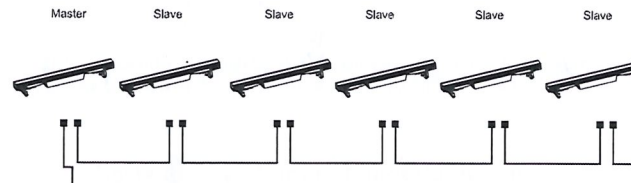
2. Press "ENTER" you can see 6 items as below:

- 1) RED
- 2) GREEN
- 3) BLUE
- 4) WHITE
- 5) COLOR - You can choose "1-63" in this menu.
- 6) STROBE - You can choose "0-20" in this menu.





UPLOAD



First, set one light, which involves the program you have edited in EDIT menu and want to upload, in Master mode, and others in Slave mode.

Then, connect all the lights with DMX cables. Finally, select the UPLOAD menu of the Master light and press ENTER. All the programs edited in the Master light will be uploaded to the Slave lights.

color sheet					
0	7	Color 1	132	135	Color 33
8	11	Color 2	136	139	Color 34
12	15	Color 3	140	143	Color 35
16	19	Color 4	144	147	Color 36
20	23	Color 5	148	151	Color 37
24	27	Color 6	152	155	Color 38
28	31	Color 7	156	159	Color 39
32	35	Color 8	160	163	Color 40
36	39	Color 9	164	167	Color 41
40	43	Color 10	168	171	Color 42
44	47	Color 11	172	175	Color 43
48	51	Color 12	176	179	Color 44
52	55	Color 13	180	183	Color 45
56	59	Color 14	184	187	Color 46
60	63	Color 15	188	191	Color 47
64	67	Color 16	192	195	Color 48
68	71	Color 17	196	199	Color 49
72	75	Color 18	200	203	Color 50
76	79	Color 19	204	207	Color 51
80	83	Color 20	208	211	Color 52
84	87	Color 21	212	215	Color 53
88	91	Color 22	216	219	Color 54
92	95	Color 23	220	223	Color 55
96	99	Color 24	224	227	Color 56
100	103	Color 25	228	231	Color 57
104	107	Color 26	232	235	Color 58
108	111	Color 27	236	239	Color 59
112	115	Color 28	240	243	Color 60
116	119	Color 29	244	247	Color 61
120	123	Color 30	248	251	Color 62
124	127	Color 31	252	255	Color 63
128	131	Color 32			

DMX control mode

4 CHANNELS		
Channel	Value	Function
1	000 - 255	Hue
2	000 - 255	Saturation
3	000 - 255	Value (Brightness)
4	000 - 255	Glasses

8 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimming(0~100%)
2	000 - 255	Dimmer curve
3	000 - 255	Glasses
4	000 - 255	Red dimmer
5	000 - 255	Green dimmer
6	000 - 255	Blue dimmer
7	000 - 255	Amber dimmer
8	000 - 255	Strobe

12 CHANNELS		
Channel	Value	Function
1	000 - 255	Master Dimming(0~100%)
2	000 - 255	Dimmer curve
3	000 - 255	Glasses
4	000 - 255	Red dimmer
5	000 - 255	Green dimmer
6	000 - 255	Blue dimmer
7	000 - 255	Amber dimmer
8	000 - 255	Strobe
9	000 - 255	Marco Color
10	000 - 255	CCT
11	000 - 255	Auto
12	000 - 255	Auto speed

49 CHANNELS		
Channel	Value	Function
1	000 - 255	Glasses
2	000 - 255	Red
3	000 - 255	Green
4	000 - 255	Blue
5	000 - 255	Amber
6	000 - 255	Red
7	000 - 255	Green
8	000 - 255	Blue
9	000 - 255	Amber
10	000 - 255	Red
11	000 - 255	Green
12	000 - 255	Blue
13	000 - 255	Amber
14	000 - 255	Red
15	000 - 255	Green
16	000 - 255	Blue
17	000 - 255	Amber
18	000 - 255	Red
19	000 - 255	Green
20	000 - 255	Blue

21	000 - 255	Amber
22	000 - 255	Red
23	000 - 255	Green
24	000 - 255	Blue
25	000 - 255	Amber
26	000 - 255	Red
27	000 - 255	Green
28	000 - 255	Blue
29	000 - 255	Amber
30	000 - 255	Red
31	000 - 255	Green
32	000 - 255	Blue
33	000 - 255	Amber
34	000 - 255	Red
35	000 - 255	Green
36	000 - 255	Blue
37	000 - 255	Amber
38	000 - 255	Red
39	000 - 255	Green
40	000 - 255	Blue
41	000 - 255	Amber
42	000 - 255	Red
43	000 - 255	Green
44	000 - 255	Blue
45	000 - 255	Amber
46	000 - 255	Red
47	000 - 255	Green
48	000 - 255	Blue
49	000 - 255	Amber

53 CHANNELS

Channel	Value	Function
1	000 - 255	Master Dimming(0-100%)
2	000 - 255	Dimmer curve
3	000 - 255	Glasses
4	000 - 255	Auto
5	000 - 255	Auto speed
6	000 - 255	Red
7	000 - 255	Green
8	000 - 255	Blue
9	000 - 255	Amber
10	000 - 255	Red
11	000 - 255	Green
12	000 - 255	Blue
13	000 - 255	Amber
14	000 - 255	Red
15	000 - 255	Green
16	000 - 255	Blue
17	000 - 255	Amber
18	000 - 255	Red
19	000 - 255	Green
20	000 - 255	Blue
21	000 - 255	Amber
22	000 - 255	Red
23	000 - 255	Green
24	000 - 255	Blue
25	000 - 255	Amber
26	000 - 255	Red
27	000 - 255	Green
28	000 - 255	Blue
29	000 - 255	Amber
30	000 - 255	Red

31	000 - 255	Green
32	000 - 255	Blue
33	000 - 255	Amber
34	000 - 255	Red
35	000 - 255	Green
36	000 - 255	Blue
37	000 - 255	Amber
38	000 - 255	Red
39	000 - 255	Green
40	000 - 255	Blue
41	000 - 255	Amber
42	000 - 255	Red
43	000 - 255	Green
44	000 - 255	Blue
45	000 - 255	Amber
46	000 - 255	Red
47	000 - 255	Green
48	000 - 255	Blue
49	000 - 255	Amber
50	000 - 255	Red
51	000 - 255	Green
52	000 - 255	Blue
53	000 - 255	Amber