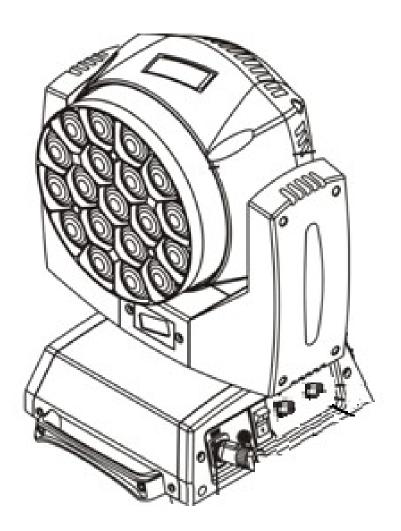


USER MANUAL

19*15W 4IN1 ZOOM & ROTATION LED Bee Eye Light



C Please read over this manual before operation the light

1. Unpacking

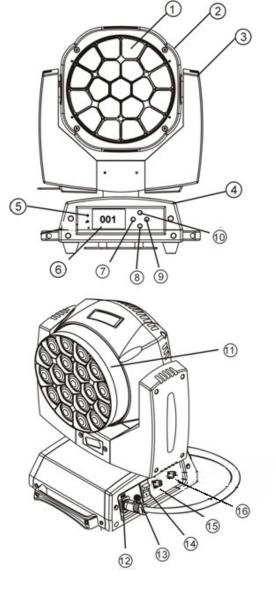
Thank you for choosing our lighting. For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

This fixture is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standardDMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

4-IN-1 LEDs(RGBW) which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box: Moving Head------One

Signal Cable----1 Hanging Bracket-----Two Power Cable----1 Safety Cable-----one

2. Product Introduction:



- 1 Lens
- Head
- ③ Arm
- ④ Botton
- 5 Dmx signal LED
- 6 LCD Display
- ⑦ Menu-button
- 8 Down-button
- 9 Enter-button
- 1 UP-button
- 1 Lens plate
- (2) Power in
- (3) Power out
- (14) Power switch
- 15 DMX in
- (6) DMX out

3. Safety Instructions

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.



Important:

Damages caused by the disregard of this user manual are not subject to w will not accent liability for any resulting defects or problems

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed. The electric connection must carry out by qualified person.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar gualified person in order to avoid a hazard.



CAUTION! Be careful with your operations. With a dangerous vol Suffer a dangerous electric shock when touching w

4. Operation Instructions

-The moving head is for wash effect for on-site decoration purpose.

-Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.

-This light should be keep away from strong shaking during any transportation or movement.

-Don't pull up the light by only the head, or it might cause damages to the mechanical parts. -Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.

-Make sure the installation place is in good safety condition before installing the fixture.

-Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.

-Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.

-Make sure the fixture is operated by qualified personnel who knows the fixture before using. -Keep the original packages if any second shipment is needed.

-Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.

-It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation,

like shock short circuit, electronic shock, lamp broke, etc.

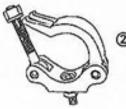
5. Mounting and Installation

Cautions: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.

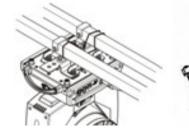
Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

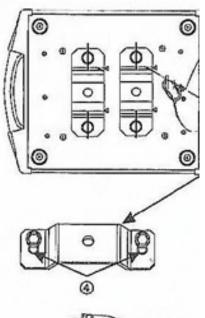
Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture from a periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.



Omega Bracket
Satety Clamp
Safety Cable
1/4 Turn Quick-Lock Fasteners





ANTING THE THE

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

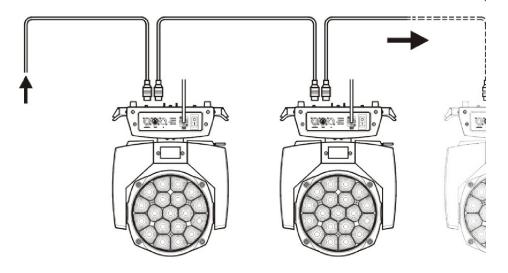
Clamp Mounting:

The lights provides a unique mounting bracket assembly that integrates the bottom of the base, the included "Omega Bracket," and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "omega bracket". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly.

Regardless of the rigging option you choose for your 19pcs zoom, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

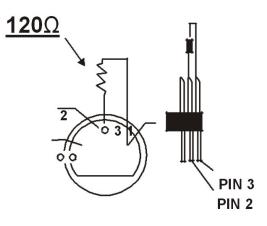
6. DMX-512 control connections:

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving heads be connected together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below. DMX-512 connection with DMX terminator



For installations where the DMX cable has to run a long distance or is in an electrically noisy

environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an 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. Please see illustrations below.



СН	Function	DMX Value	Details
1	Red	0-255	Red dimmer
2	Red Fine	0-255	Red fine control
3	Green	0-255	Green dimmer
4	Green Fine	0-255	Green fine control
5	Blue	0-255	Blue dimmer
6	Blue Fine	0-255	Blue fine control
7	White	0-255	White dimmer
8	White Fine	0-255	White fine control
9	СТО	0-255	Color temperature linear control
10	Macro color	0-255	Marco color control
		0-3	Light up
11	strobe	4-203	Strobe with the same step from slow to fast
	31000	204-255	Random strobe
12	Dimmer	0-255	0-100 linear dimmer from dark to bright
13	Dimmer Fine	0-255	Dimmer fine control
14	Pan	0-255	Pan movement control
15	Pan Fine	0-255	Pan fine control
16	Tilt	0-255	Tilt movement control
17	Tilt Fine	0-255	Pan fine control
18	Function	0-255	
		0-250	No function
19	Reset	251-255	Reset with 5 seconds
20	Zoom	0-255	Small to big
		0-127	0 to 60 degree
21	Zoom Rotation	128-191	Unlimited clockwise rotation from fast to slow
		192-255	Unlimited anticlockwise rotation from fast to slow

7. DMX Channels - 21 CH

СН	Function	DMX	Details
1	Pan	0-255	Pan movement control
2	Pan fine	0-255	Pan fine control
3	Tilt	0-255	Tilt movement control
4	Tilt fine	0-255	Pan fine control
5	Pan/Tilt speed	0-255	Speed from fast to slow
6	ZOOM	0-255	Zoom
		0-127	0 to 60 degree
7	LENS rotation	128-191	Unlimited clockwise rotation from fast to slow
		192-255	Unlimited anticlockwise rotation from fast to slow
8	Dimmer	0-255	0-100 linear dimmer from dark to bright
		0-3	Light up
9	Strobe	4-203	Strobe with the same step from slow to fast
		204-255	Random strobe
10	R	0-255	1-100% Red linear dimmer from dark to bright
11	G	0-255	1-100% Green linear dimmer from dark to bright
12	В	0-255	1-100% Blue linear dimmer from dark to bright
13	W	0-255	1-100% White linear dimmer from dark to bright
14	Color	0-255	Linear color temperature control
15	Marcot	0-255	Marco color change
16	Static effect	0-255	Each 5 DMX value is a kind of static effect
17	Dynamic effect	0-255	Each 5 DMX value is a kind of dynamic effect
18	Dynamic effect	0-255	Speed from slow to fast,pls operate against 15 CH
19	Backgroudnd R	0-255	1-100% Background Red linear dimmer from dark to bright
20	Background G	0-255	1-100% Background Blue linear dimmer from dark to bright
21	Background B	0-255	1-100% Background Green linear dimmer from dark to bright
22	Background W	0-255	1-100% Background Blue linear dimmer from dark to bright
		0-250	No function
23	Reset	251-255	Reset with 5 seconds

35CH mode:

СН	Function	DMX	Details
1	Red	V0-2I55	Red dimmer
2	Red Fine	0-255	Red fine control
3	Green	0-255	Green dimmer
4	Green Fine	0-255	Green fine control
5	Blue	0-255	Blue dimmer
6	Blue Fine	0-255	Blue fine control
7	White	0-255	White dimmer
8	White Fine	0-255	White fine control
9	СТО	0-255	Color temperature linear control
10	Macro colour	0-255	Marco color control
		0-3	Light up
11	Strobe	4-203	Strobe with the same step from slow to fast
	Oliobe	204-255	Random strobe
12	Dimmer	0-255	0-100 linear dimmer from dark to bright
13	Dimmer Fine	0-255	Dimmer fine control
14	Pan	0-255	Pan movement control
15	Pan Fine	0-255	Pan fine control
16	Tilt	0-255	Tilt movement control
17	Tilt Fine	0-255	Pan fine control
18	Function	0-255	
		0-250	No function
19	Reset	251-255	Reset with 5 seconds
20	Zoom	0-255	
		0-127	0 to 60 degree
21	Zoom Rotation	128-191	Unlimited clockwise rotation from fast to slow
		192-255	Unlimited anticlockwise rotation from fast to slow
22	Shape Selection	0-255	Selecting shape
23	Shape Speed	0-255	Shape speed control
24	Shape Fade	0-255	Shape fade
25	Shape R	0-255	Shape in Red color
26	Shape G	0-255	Shape in Green color
27	Shape B	0-255	Shape in Blue color
28	Shape W	0-255	Shape in White color
29	Shape Dimmer	0-255	Shape dimmer 0-100%
30	Background	0-255	Background dimmer 0-100%
31	ShapDei Transition	0-255	Shape change
32	Shape Offset	0-255	Shape offset
33	Foreground strobe	0-255	Foreground strobe control
34	Background strobe	0-255	Background strobe control
35	Background selection	0-255	Background selection

78CH

СН	Function	DMX	Details
1	Red	0-255	Red dimmer
2	Red Fine	0-255	Red fine control
3	Green	0-255	Green dimmer
4	Green Fine	0-255	Green fine control
5	Blue	0-255	Blue dimmer
6	Blue Fine	0-255	Blue fine control
7	White	0-255	White dimmer
8	White Fine	0-255	White fine control
9	СТО	0-255	Color temperature linear control
10	Macro colour	0-255	Marco color control
		0-3	Light up
11	Strobe	4-203	Strobe with the same step from slow to fast
		204-255	Random strobe
12	Dimmer	0-255	0-100 linear dimmer from dark to bright
13	Dimmer Fine	0-255	Dimmer fine control
14	Pan	0-255	Pan movement control
15	Pan Fine	0-255	Pan fine control
16	Tilt	0-255	Tilt movement control
17	Tilt Fine	0-255	Pan fine control
18	Function	0-255	
10		0-250	No function
19	Reset	251-255	Reset with 5 seconds
20	Zoom	0-255	
		0-127	0 to 60 degree
21	Zoom Rotation	128-191	Unlimited clockwise rotation from fast to slow
		192-255	Unlimited anticlockwise rotation from fast to slow
22	Red dimmer 1	0-255	LED 1 red dimmer
23	Green dimmer 1	0-255	LED 1 green dimmer
24	Blue dimmer 1	0-255	LED 1 blue dimmer
25	Red dimmer 2	0-255	LED 2 red dimmer
26	Green dimmer 2	0-255	LED 2 green dimmer
27	Blue dimmer 2	0-255	LED 2 blue dimmer
•••	•••••	•••••	
•••			
76	Red dimmer 19	0-255	LED 19 red dimmer
77	Green dimmer	0-255	LED 19 green dimmer
78	Blue dimmer 19	0-255	LED 19 blue dimmer

СН	Function	DMX	Details
1	Red	0-255	Red dimmer
2	Red Fine	0-255	Red fine control
3	Green	0-255	Green dimmer
4	Green Fine	0-255	Green fine control
5	Blue	0-255	Blue dimmer
6	Blue Fine	0-255	Blue fine control
7	White	0-255	White dimmer
8	White Fine	0-255	White fine control
9	СТО	0-255	Color temperature linear control
10	Macro colour	0-255	Marco color control
		0-255	Light up
11	Strobe	0-255	Strobe with the same step from slow to fast
		0-255	Random strobe
12	Dimmer	0-255	0-100 linear dimmer from dark to bright
13	Dimmer Fine	0-255	Dimmer fine control
14	Pan	0-255	Pan movement control
15	Pan Fine	0-255	Pan fine control
16	Tilt	0-255	Tilt movement control
17	Tilt Fine	0-255	Pan fine control
18	Function	0-255	
19	Depet	0-255	No function
19	Reset	0-255	Reset with 5 seconds
20	Zoom	0-255	
	Zoom Rotation	0-255	0 to 60 degree
21		0-255	Unlimited clockwise rotation from fast to slow
		0-255	Unlimited anticlockwise rotation from fast to slow
22	Shape Selection	0-255	Selecting shape
23	Shape Speed	0-255	Shape speed control
24	Shape Fade	0-255	Shape fade
25	Shape R	0-255	Shape in Red color
26	Shape G	0-255	Shape in Green color
27	Shape B	0-255	Shape in Blue color
28	Shape W	0-255	Shape in White color
29	Shape Dimmer	0-255	Shape dimmer 0-100%
30	Background Dimmer	0-255	Background dimmer 0-100%

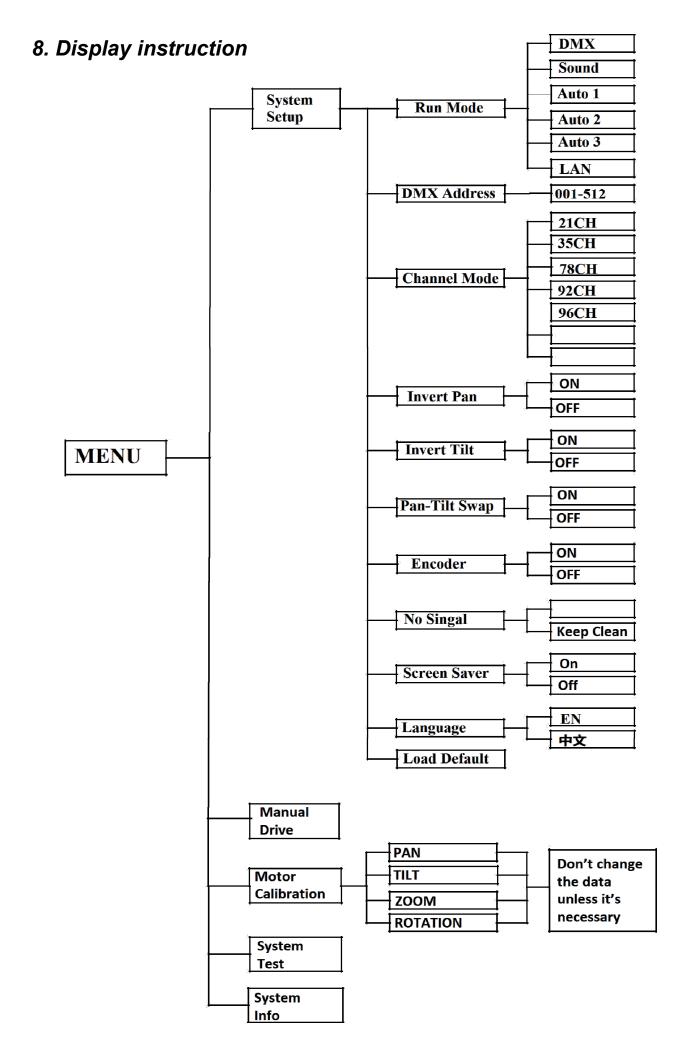
31	Shape Transition	0-255	Shape change
32	Shape Offset	0-255	Shape offset
33	Foreground strobe	0-255	Foreground strobe control
34	Background strobe	0-255	Background strobe control
35	Background select	0-255	Background selection
36	Red dimmer 1	0-255	LED 1 red dimmer
37	Green dimmer 1	0-255	LED 1 green dimmer
38	Blue dimmer 1	0-255	LED 1 blue dimmer
39	Red dimmer 2	0-255	LED 2 red dimmer
40	Green dimmer 2	0-255	LED 2 green dimmer
41	Blue dimmer 2	0-255	LED 2 blue dimmer
90	Red dimmer 19	0-255	LED 19 red dimmer
91	Green dimmer 19	0-255	LED 19 green dimmer
92	Blue dimmer 19	0-255	LED 19 blue dimmer

СН	Function	DMX Value	Details
1	Red	0-255	Red dimmer
2	Red Fine	0-255	Red fine control
3	Green	0-255	Green dimmer
4	Green Fine	0-255	Green fine control
5	Blue	0-255	Blue dimmer
6	Blue Fine	0-255	Blue fine control
7	White	0-255	White dimmer
8	White Fine	0-255	White fine control
9	СТО	0-255	Color temperature linear control
10	Macro colour	0-255	Marco color control
	Strobe	0-3	Light up
11		4-203	Strobe with the same step from slow to fast
	Shope	204-255	Randon strobe
12	Dimmer	0-255	0-100 linear dimmer from dark to bright
13	Dimmer Fine	0-255	Dimmer fine control
14	Pan	0-255	Pan movement control
15	Pan Fine	0-255	Pan fine control
16	Tilt	0-255	Tilt movement control

17	Tilt Fine	0-255	Pan fine control
18	Function	0-255	
		0-250	No function
19	Reset	251-255	Reset with 5 seconds
20	Zoom	0-255	
		128-191	Unlimited clockwise rotation from fast to slow
21	Zoom Rotation	192-255	Unlimited anticlockwise rotation from fast to slow
22	Red dimmer 1	0-255	LED 1 red dimmer
23	Green dimmer 1	0-255	LED 1 green dimmer
24	Blue dimmer 1	0-255	LED 1 blue dimmer
25	White dimmer 1	0-255	LED 1 white dimmer
•••		•••••	
94	Red dimmer 19	0-255	LED 19 red dimmer
95	Green dimmer 19	0-255	LED 19 green dimmer
96	Blue dimmer 19	0-255	LED 19 blue dimmer
97	White dimmer 19	0-255	LED 19 white dimmer

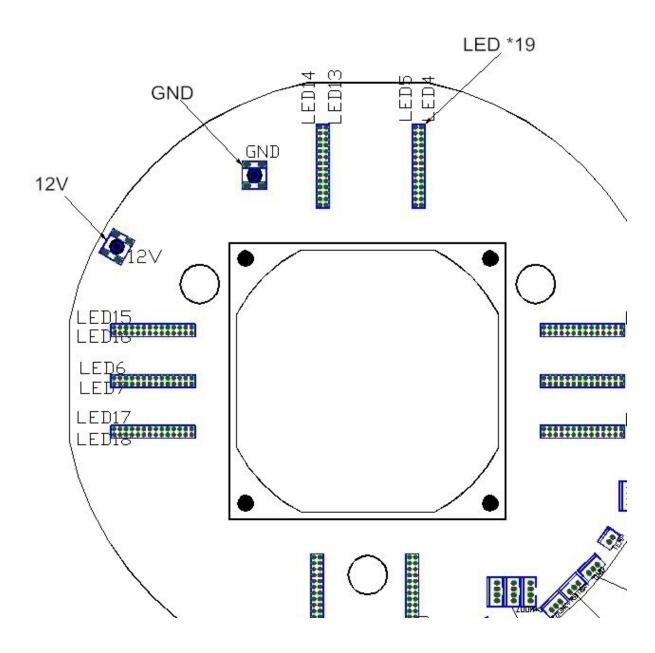
СН	Function	DMX	Details
1	Pan	0-255	Pan movement control
2	Pan fine	0-255	Pan fine control
3	Tilt	0-255	Tilt movement control
4	Tilt fine	0-255	Pan fine control
5	Pan/Tilt speed	0-255	Speed from fast to slow
6	ZOOM	0-255	Zoom
		0-127	0 to 60 degree
7	LENS rotation	128-191	Unlimited clockwise rotation from fast to slow
		192-255	Unlimited anticlockwise rotation from fast to slow
8	Dimmer	0-255	0-100 linear dimmer from dark to bright
		0-3	Light up
9	Strobe	4-203	Strobe with the same step from slow to fast
Ŭ		204-255	Random strobe
10	Red	0-255	1-100% Red linear dimmer from dark to bright
11	Green	0-255	1-100% Green linear dimmer from dark to bright

	1	1	
12	Blue	0-255	1-100% Blue linear dimmer from dark to bright
13	White	0-255	1-100% White linear dimmer from dark to bright
14	сто	0-255	Linear color temperature control
15	Marco	0-255	Marco color change
16	Static effect	0-255	Each 5 DMX value is a kind of static effect
17	Dynamic effect	0-255	Each 5 DMX value is a kind of dynamic effect
18	Dynamic effect speed	0-255	Speed from slow to fast, pls operate against 15 CH
19	Background R	0-255	1-100% Background Red linear dimmer from dark to bright
20	Background G	0-255	1-100% Background Blue dimmer from dark to bright
21	Background B	0-255	1-100% Background Green dimmer from dark to bright
22	Background W	0-255	1-100% Background Blue dimmer from dark to bright
	Reset	0-250	No function
23		251-255	Reset with 5 seconds
24	Red dimmer 1	0-255	LED 1 red dimmer
25	Green dimmer 1	0-255	LED 1 green dimmer
26	Blue dimmer 1	0-255	LED 1 blue dimmer
27	White dimmer 1	0-255	LED 1 white dimmer
•••		•••••	
•••			
96	Red dimmer 19	0-255	LED 19 red dimmer
97	Greendimmer 19	0-255	LED 19 green dimmer
98	B lue dimmer 19	0-255	LED 19 blue dimmer
99	White dimmer 19	0-255	LED 19 white dimmer
L	•		

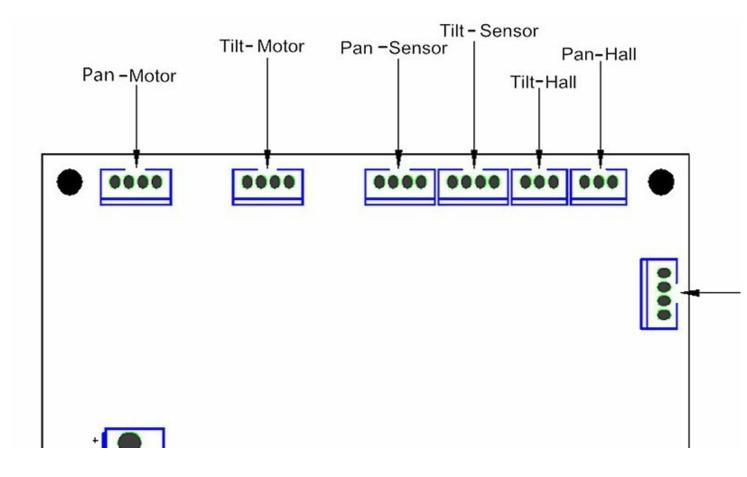


9.Board connection:

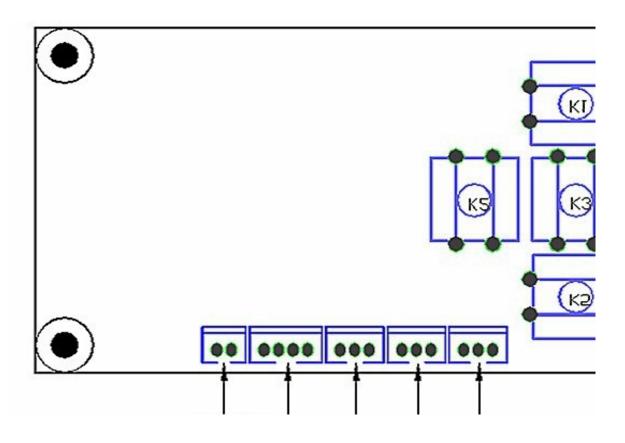
LED driver board



Main board:



Screen board:



10. Key Features

Voltage: AC100V~240V 50-60HZ Poer: 450W LED Source: 19x15W high power RGBW 4 in 1 LEDs Zoom: 4-60° Strobe: 0-20Hz Control Mode: DMX512, Sound-actived, Master/slave DMX Channels: 21 CH/23CH/35CH/78 CH/92 CH/96 CH / 99CH Dimmer: 0-100% linear dimmer Pan: 540°+16bit fine Tilt: 270°+16bit fine Display: LCD colorful display **IP: IP20 Rechargeable Battery: Optional** Artnet: Optional Fixture dimension: 415*275*425 mm Carton package Size: 53*42*51CM (1pcs/ctn) N.W:14.95 Kg / G.W: 18.1Kg

11. Special Points.

1.Each LED can be controlled individually. With unique honeycomb designed lens.

2. The front lens can rotate without limitation in forward and reverse direction to create amazing effects.

3.Display screen can be turned upside down with 180°automatically to fit the installation in different place, Display can be equipped with rechargeable battery to set DMX address without power connection.

4.Can be used as beam, wash or effect light use (Kaleido effects)

5. The scanning position can be memory, it will be automatically reset without expected movement after rotation.

6.Fan cooling (fan will be change the speed with the temperature variation).

Temperature detecting system (If the temperature detected error, the light will stopworkingtoprotectthefixture)

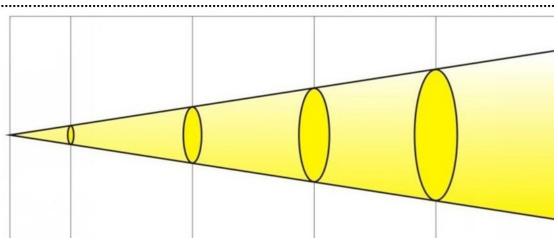
9. Photometric Data:

LUX Data of 4 degree beam angle:

R <u>3700LUX@2.5m</u> 2550LUX@5m 1150LUX@7.5m

- G <u>13800LUX@2.5m</u> 3800LUX@5m 1780LUX@7.5m
- B <u>15300LUX@2.5m</u> 4460LUX@5m 1970LUX@7.5m
- W <u>18000LUX@2.5m</u> 5300LUX@5m 2320LUX@7.5m

RGBW <u>50400LUX@2.5m</u> 15500LUX@5m 6680LUX@7.5m



10. Maintenance and Cleaning:

The following points have to be considered during the inspection:

1. All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.

2. There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).

3. Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.

4. The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION!

Disconnect from mains before starting maintenance operati

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1) Clean the inside and outside lens each week to avoid the weakneness of the lights due to accumulation of dust.

- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents. There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions". Should you

