

Vari Wash 600(pixel)

User Manual

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 standard DMX512 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.

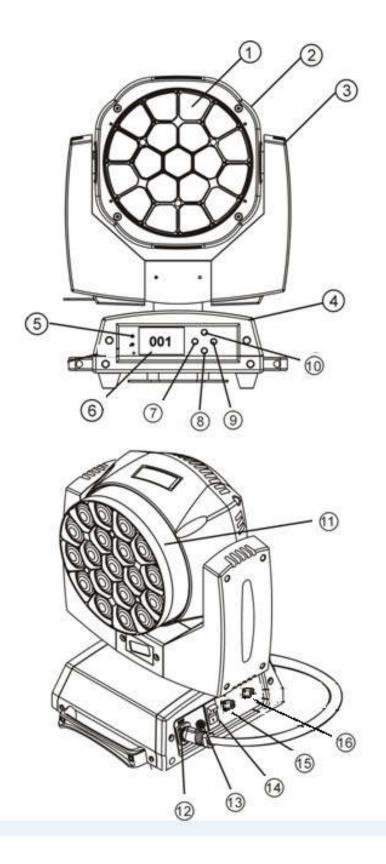
4-IN-1 LEDs(RGBW) which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:

Moving Head----One Signal Cable ---One

Hanging Bracket----Two Power Cable ---One

Safety Cable-----one User Manual ---One

2. Product Introduction



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

3. Safety Instructions



CAUTION!Be careful with your operations. With a dangerous voltage you can Suffer a dangerous electric shock when touching wires!

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 warranty. The dealer will not accept 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 qualified person in order to avoid a hazard.

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.

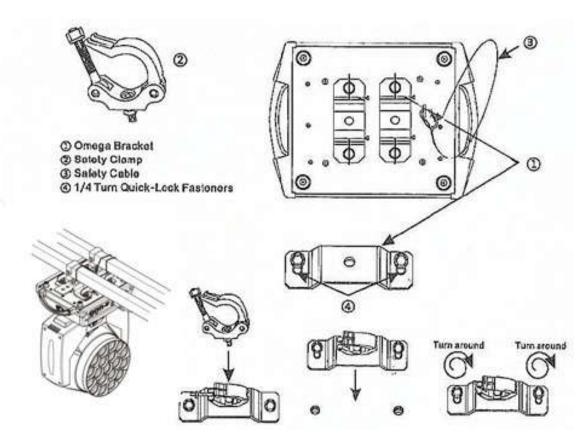
Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

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.

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

Clamp Mounting: The HAWKEYE II 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



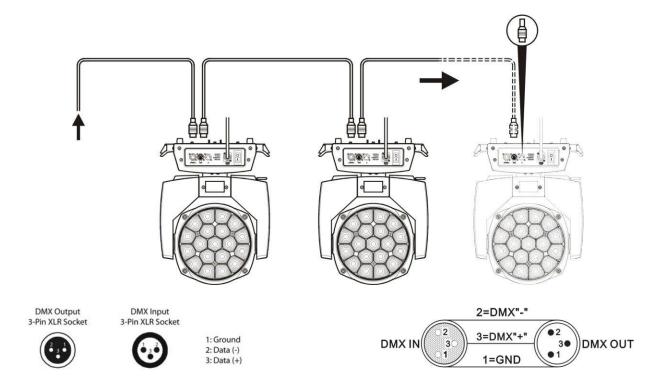
Regardless of the rigging option you choose for your 19pcs zoom, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable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

6. DMX-512 control connections

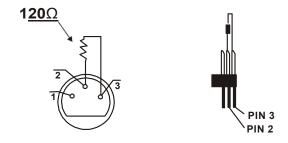
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple

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.



7. DMX Channels

21 CH

CH	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	
		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		
19	Reset	0-250	No function	
		251-255	Reset with 5 seconds	
20	Zoom	0-255		
	Zoom	0-127	0 to 60 degree	
21	Rotation	128-191	Unlimited clockwise rotation from fast to slow	
		192-255	Unlimited anticlockwise rotation from fast to slow	

23 channels mode

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	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	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 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	
23	Reset	0-250	No function	
		251-255	Reset with 5 seconds	

35 channels mode

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		
19	19 Reset	0-250	No function	
		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	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 selection	0-255	Background selection	

78 channels mode

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		
19	Reset	0-250	No function	
		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	

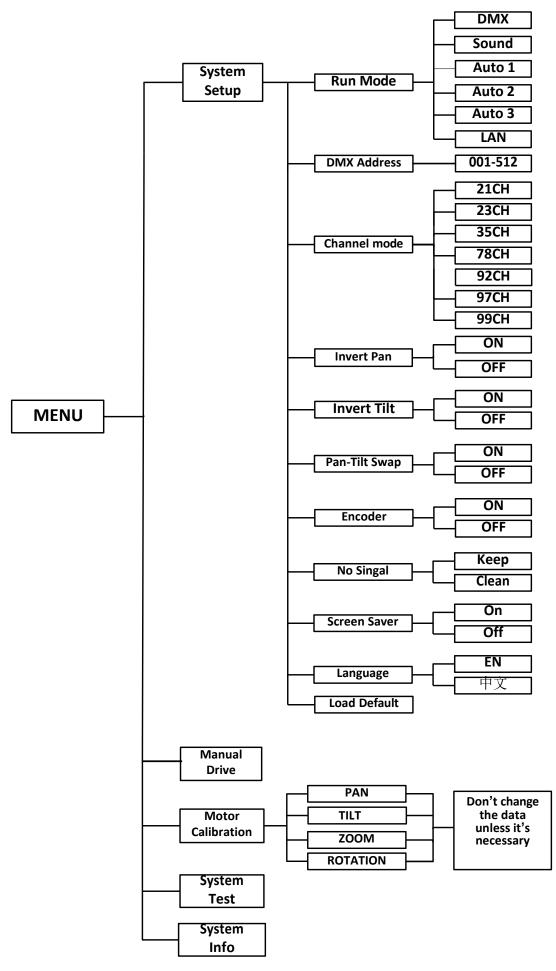
92 Channels mode

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	T all fill Control	
		0-250	No function	
19	Reset	251-255	Reset with 5 seconds	
20	Zoom	0-255	Neset with 5 seconds	
20	200111	0-233	0 to 60 degree	
21	Zoom Rotation	128-191	Unlimited clockwise rotation from fast to slow	
		192-255	Unlimited clockwise rotation from fast to slow	
22	Shana Salaatian	0-255		
23	Shape Selection Shape Speed	0-255	Selecting shape	
24	Shape Speed Shape Fade	0-255	Shape speed control Shape fade	
25		0-255		
26	Shape R Shape G	0-255	Shape in Red color	
27	Shape B	0-255	Shape in Green color	
28	Shape B Shape W	0-255	Shape in Blue color 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		
32	Shape Offset	0-255	Shape change	
33	Foreground strobe	0-255	Shape offset	
34	Background strobe	0-255	Foreground strobe control Background strobe control	
35	<u> </u>	0-255	Background sclection	
36	Background select Red dimmer 1	0-255	9	
37	Green dimmer 1	0-255	LED 1 red dimmer	
			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	
•••••				
	Ded 45 40			
90	Red dimmer 19	0-255	LED 19 red dimmer	
	O 11 40	^ ^	LED 19 green dimmer	
91 92	Green dimmer 19 Blue dimmer 19	0-255 0-255	LED 19 green dimmer LED 19 blue dimmer	

Channel	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	
		0-3	Light up	
11	strobe	4-203	Strobe with the same step from slow to fast	
		204-255	Randon strobe	
12	Dimmer	0-255	0-100 linear dimmer from dark to bright	
13	Dimmer Fine	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	Reset	0-250	No function	
		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		LED 1 red dimmer	
23	Green dimmer 1 0-255 LED		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	

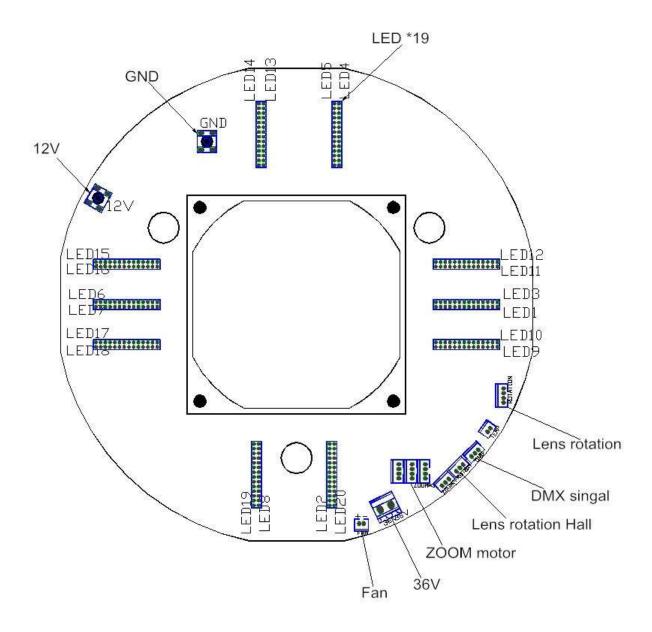
СН	Function	DMX Value	Details	
1	Pan	0-255	Pan movement control	
2	Pan fine	0-255	Pan fine control	
3	Tilt	0-255	Tilt movement control	
4	Tilt fine	0-255	Pan fine control	
5	Pan/Tilt speed	0-255	Speed from fast to slow	
6	ZOOM	0-255	Zoom	
		0-127	0 to 60 degree	
7	LENS rotation	128-191	Unlimited clockwise 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	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	
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	
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	
23	Reset	0-250	No function	
	, , , , , ,	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	Green dimmer 19	0-255	LED 19 green dimmer	
98	Blue dimmer 19	0-255	LED 19 blue dimmer	
99	White dimmer 19	0-255	LED 19 white dimmer	

8. Display instruction

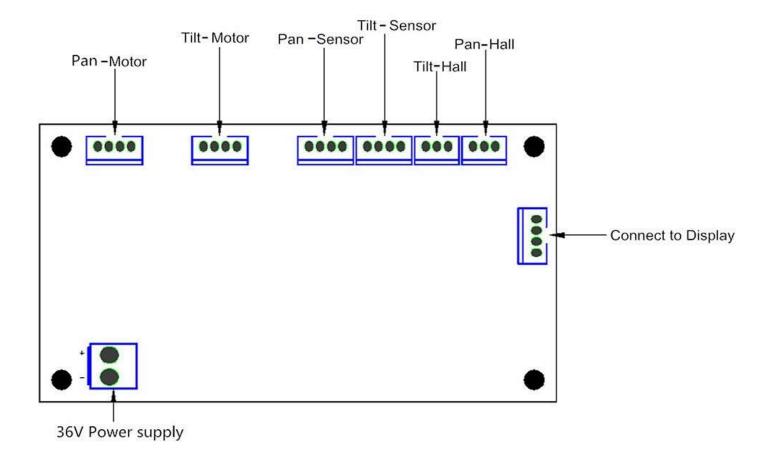


9. Board connection:

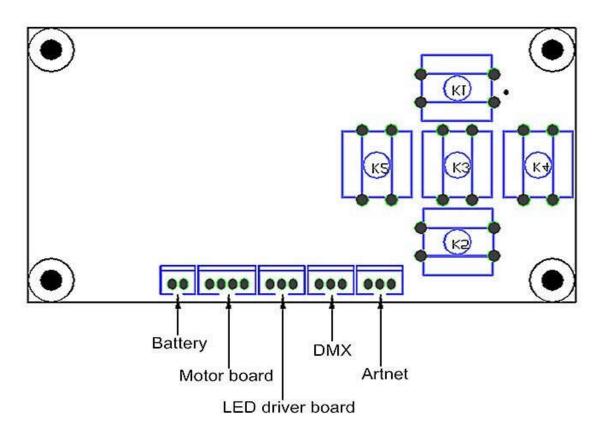
LED driver board



Main board:



Screen board:



10. Key Features

Voltage: AC100V ~ 240V 50-60HZ

Power: 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/23 CH/35 CH/78 CH/92 CH/97 CH/99 CH

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

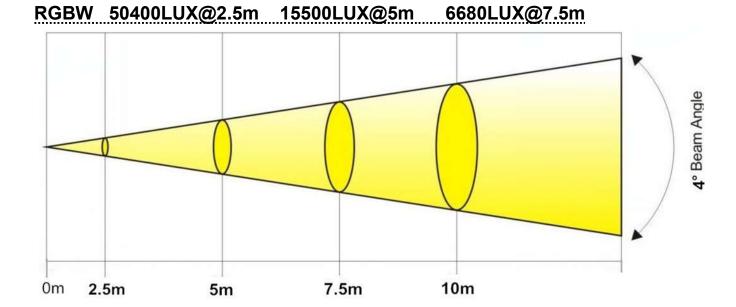
Special Points.

- 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 stop working to protect the fixture)

9. Photometric Data:

<u>w</u> _	18000LUX@2.5m	5300LUX@5m	2320LUX@7.5m
В	15300LUX@2.5m	4460LUX@5m	1970LUX@7.5m
G	13800LUX@2.5m	3800LUX@5m	1780LUX@7.5m
R	X Data of 4 degree be 83700LUX@2.5m	am angle: 2550LUX@5m	1150LUX@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 tightlyconnected 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 operation.

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 need any spare parts, please order genuine parts from your local dealer