



DREAM LIGHT Workshop

User Manual

DLW 4012 WASH
DLW L4012 WASH

Guangzhou Dream Lighting Equipment Co., LTD

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Safety Information





Note: Please check the complete packing after received the fixture, and please check the fixture damaged or not during shipping after opened the packing. If the fixture is damaged during shipping, please don't use it first, and contact the manufacture/local technical staffs as soon as possible.

The following identifications are used to identify the product and identify the important safety information in the user manual.

Warning!	Used indoor only!	Warning! See user documentation.	Warning! Hazardous voltage. Risk of lethal or severe electric shock.	Properly grounded	Warning! Intense light emission.	Warning! High surface temperature Don't touch!	Warning! Must wear gloves!
				$t_a \dots ^\circ\text{C}$			
Warning! Fire hazard.	Do not stare at the operating light source	Do not interfere with the track of the operating fixture	Minimum distance of illuminated objects(m)	Rated maximum ambient temperature!	Don't install the fixture on the surfact of combustible materials!	Replace any cracked protective shields	

Notes:

- The fixture is used professionally only, please don't used it for any other purposes.
- Please refer to the latest user manual before using the fixture. It is out of warranty items if any problems caused by any incorrect use or neglecting the user manual.
- The fixture is used indoor; IP rate is IP20. Keep the fixture dry and avoid to use the fixture under the environment of damp, overheating or dustiness. Keep away from the water or any liquid.
- Don't move the fixture alone in order to avoid damaging it, must test hanging devices should bear more than 6 times weight of the fixture when hanging it. Please check the fixture shell and fixed G-clamp after installed. At the same time, please use the safety chain to keep the fixture fixed on the truss safely.
- The fixture should be installed in a well-ventilated place. Keep the distance from obstacles above 0.9m, and check the fans and ventilation holes are blocked or not.

- Please don't install the fixture on the surfaces of the inflammable goods directly.
- Please check the voltage before the professional technicians install the fixture.
The voltage must be the same with the voltage which marked on the fixture.
Overloading protection or leakage protection are also required.
- When replacing the fuse of a fixture, please check whether the fuse meets the specified technical requirements. Do not replace or short-circuit it without allowed. Please confirm whether the input voltage meets the specified technical requirements and is correctly grounded before powering on.
- Please cut off the power supply when replacing the fuse. ()
- Rated maximum ambient temperature when the fixture is working: $t_a = 40^{\circ}\text{C}$.
- The safe/shortest distance to the illuminate object: 5m.
- when the fixture working stably, the maximum surface temperature: $t_c = 75^{\circ}\text{C}$.
- The shortest safety distance to combustible material: 0.7m.
- Please don't touch the fixture when it is working stably. It's highest surface temperature can reach 75°C .
- The fixture must be positioned in such a way that it is not subjected to prolonged observation from a distance of less than 3.5 meters.
- Please don't stare at the working fixture directly without any eye protection.
- Please replace the protective cover and lens if any visible damage happened or the damage has reached the malfunction level. ()
- The fixture must be installed, operated, and maintained by professionals strictly according to the user manual.
- All the information of the user manual is for your reference only. All fixtures should be subject to the actual product, which is subject to change without prior notice.

Package & Transportation

Fixture package

- Please cut off the power supply and cooling it for over 15mins before package the fixture.
- Lock the protection lock well with Pan=0°, Tilt=90°.
- Put the fixture into plastic bag, then grasp the handles and arms to keep it handstand, and then put it into the flight case vertically and carefully, the parts are place at special area in flight case, then close the flight case and lock it. don't put it upside down.

Transport protection lock

- There is protective lock at Pan/Tilt movement for safety transportation.

Unpacking

- Open the packing box, and then open the inner packing bag.
- Grasp the handle of the fixture, take it out of the case carefully.
- Unlock the protective lock before power on the fixture.

Notice: Please check the complete packing after received the fixture, and please check the fixture damaged or not during shipping after opened the packing. If the fixture is damaged during shipping, please don't use it first, and contact the manufacture/local technical staffs as soon as possible.

Accessories with fixture

Accessories	Qty
User Manual	1
Warranty Card	1
Signal Cable	1
Power Cable	1

Product Technical Specifications

Power Supply& Power

AC 200 - 240V 50 / 60 Hz

Rated current: 5.5A, Rated power input:2.75W, PF≥0.98.

Light Source

- Light source: 40W*12PCS RGBW 4 in 1.
- Linear Zoom: 4°~ 45°.

Effect Configuration

- Individual control.
- Color temperature 2500K-8000K linear change.
- 38 built-in Macro program selectable

Fixture Movement

- PAN=540°, precision: 8bit, 2.11°/step, 16bit, 0.008°.
- TILT=226°, precision: 8bit, 1.06°/step, 16bit, 0.004°.

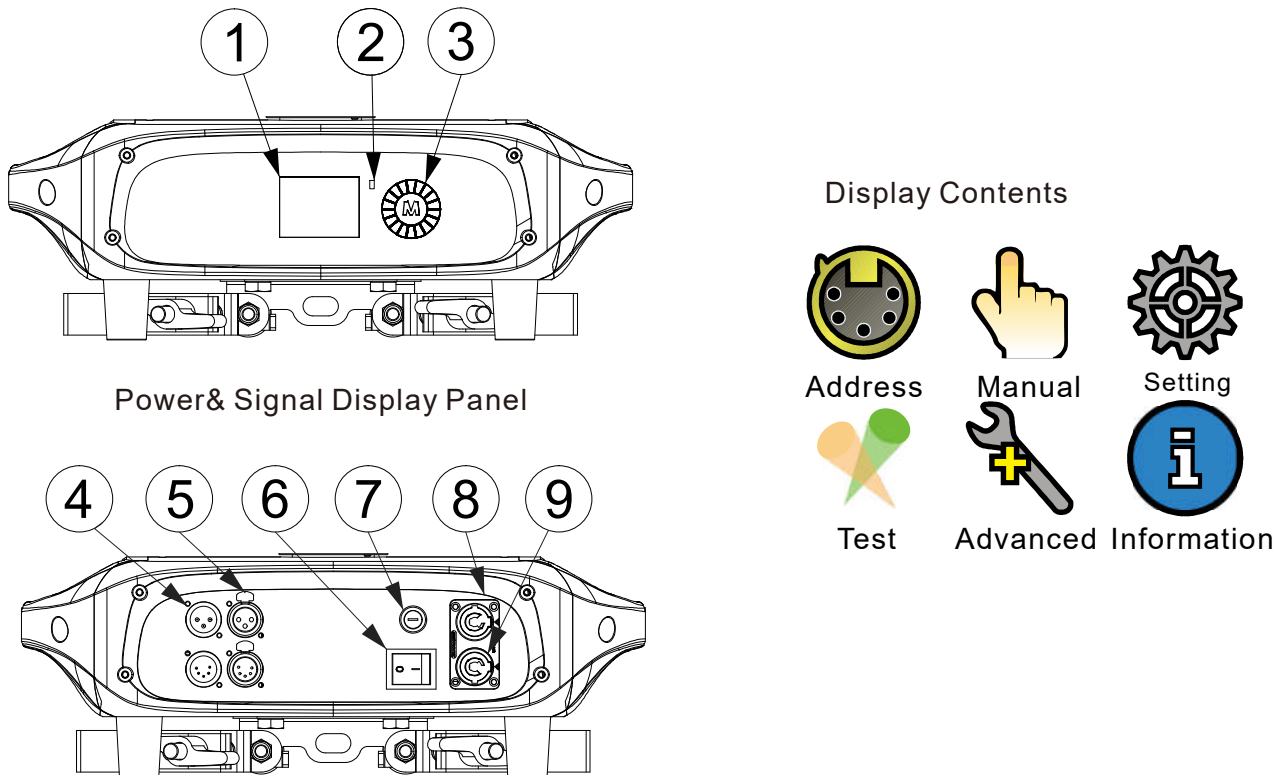
Electronic Technique

- Channel mode: 11 Ch (HSI)/ 17 Ch (STANDARD)/ 18 Ch (FIGURE)/ 58 CH (PIXEL EXPANSION).
- ControlProtocol:Standard DMX512 protocol, Art-net,Ethernet light control protocol, wirelessDMX512,RDM, Menu edit withmobile power supplywithout power.(optional)
- Menu display: 2.4 inches LCD color touch screen; Random switch of Chinese and English language, menu available to display 180°reversely; Non-contacting wheel key mode.
- ECO mode,when lamp closed,power will be auto-reduction.
- Intelligent controlling fan
- Electromic sensors detecting
- DMX channel level monitoring
- RDM data bi-directional transmission
- Check fixture information by LCD screen,such as lamp usage time,fixture usage time, software version,etc.

Fixture Size& Weight:

- Fixture size:389X271X477mm
- Flight case size:783X512X742 mm(1 flight case 2)
- Net weight:18Kg
- Flight case net weight:29.9Kg
- IP Grade:IP20
- IP Grade:IP20

Operation Panel



Pic 1




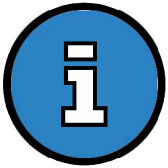
As shown in above pic1:

- 1.LCD display 2.USB 3.Functionknob(Confirm button) 4.DMX Input 5.DMX Output
6.Switch 7.Fuse box 8.Power Input 9.Power Output

Operation Panel Introduction:

- Function knob (confirm button):Press the button into the manual display(Pic6),
Rotate clockwise: rolling down to select cursor/decrease/modify the parameter value,
Rotate anticlockwise: rolling up to select cursor/increase/modify the parameter value,
enter into grey area of selected menu, if confirm to enter into the menu,
please press the button to enter into next menu. if not enter into this selected menu,
please rotate function knob to page setting.

LCD Display Function Sheet

<p style="text-align: center;">Setting</p> 	1.Pan reverse	
	2.Tilt reverse	
	3.Language	
	4.Display reverse	
	5.Display mode	
	6.Exit	
<p style="text-align: center;">Manual</p> 	1.Pan	000~255
	2.Pan fine	000~255
	3. Tilt	000~255
	4. Tilt fine	000~255
	5. Motor speed	000~255
	6. Dimmer	000~255
	7. Strobe	000~255
	8. Red	000~255
	9. Green	000~255
	10. Blue	000~255
	11. White	000~255
	12. Shape color	000~255
	13. Shape choose	000~255
	14.Speed choose	000~255
	15. Blackground color	000~255
	16. Blackground brightness	000~255
	17. Zoom	000~255
	18.Reset	
	19. Exit	
<p style="text-align: center;">address</p> 	1.Address setting	
	2.Channel mode	
		Standard:17CH
		Expand :58CH
		Shape : 18CH
		HSI:11CH
	3. Exit	
<p style="text-align: center;">information</p> 	1.Time information	
	2.Sensor testing	
	3. Temperature control information	
	4. Software version	
	5. Exit	

Advanced



1. Pan correction	
2. Tilt correction	
3. Zoom correction	
4. Red correction	
5. Green correction	
6. Blue correction	
7. Open correction	
8. Exit	

Test



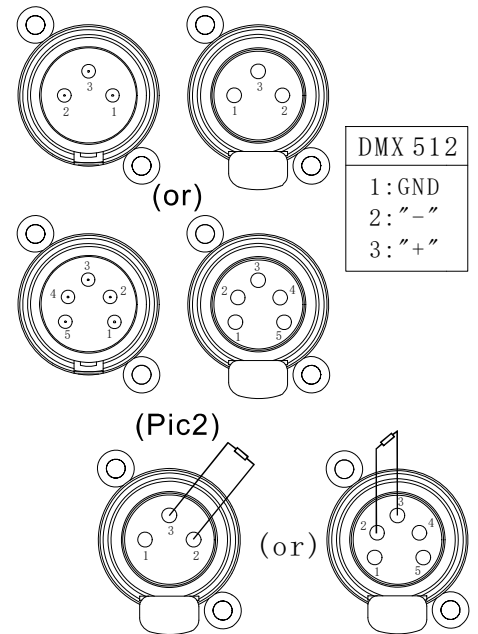
1. Motor reset	
2. Factory setting	
3. Effect display	
4. Exit	

Signal connection

The fixture adopts 3pin/5pin socket to control DMX input and output, Pin1 is connected to grounded, Pin2 is connected to"-", Pin3 is connected to"+"(Pic2).

Please adopt professional DMX512 STP signal cable, which is usually connected in 150m, when need signal as long distance transmission, please add DMX 512 signal amplifier.

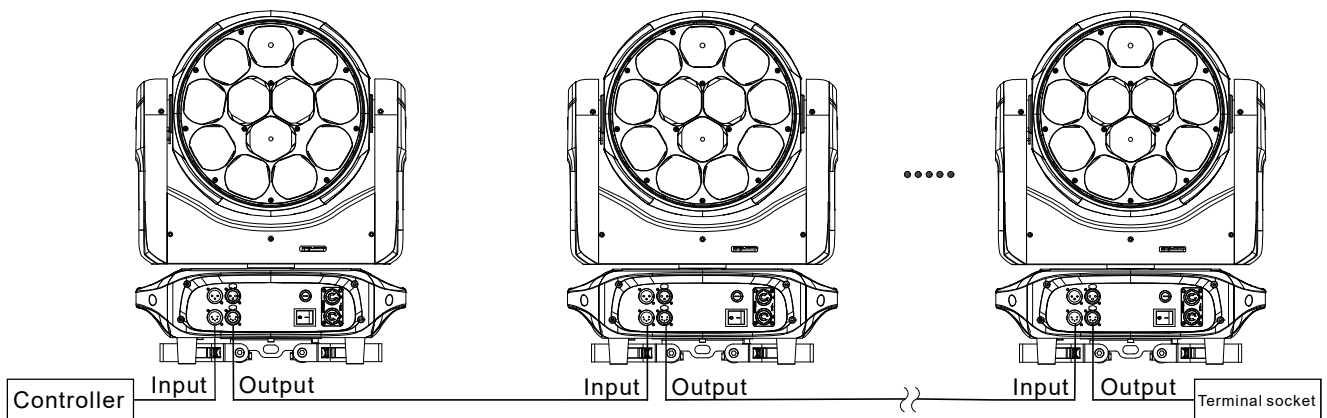
To avoid the signal reflection in transmission, please add a terminal which is 120Ω 1/4W resistance between DMX output pin2 and pin 3 of the last fixture. Plug the pin to the DMX output connector of the last fixture. (Pic3)



DMX 512	
1:	GND
2:	"-"
3:	"+"

Terminal socket (Pic3)

Connect the fixture from the DMX output of controller to DMX input of the first fixture, and then output to the second... until to connect the last fixture. Then please install a terminal plug in DMX output of the last fixture. (Pic 3) Connection as bellow. (Pic4)



(Pic4)

Notice:

- Don't use multi- output connector for connecting separately, if needing, it must connect the branch with DMX512 signal amplifier to separate them.
- Standard amplifier cable is not reliable for long-distance data transmission; it must adopt professional DMX 512 STP signal cable.
- The signal of the fixture only has one input and one output. Two input/output for each fixture are not available.

Power connection

Input voltage and frequency must be identical to the voltage and frequency marked on the fixture. When many fixtures are working at the same time, it is strongly recommended to control each fixture on/off individually.

Connection type

	Live or L	Neutral or N	Earth, Ground or ⊕
US system	Black	White	Green
EU system	Brown	Blue	Yellow/green

Notice:

- When connect power supply, please make sure the E line (yellow & green.) is properly connected. And it is corresponded with the relative electrical installation standards.
- Insulation class between LV power supply and controlling conductor: I
- Please confirm the voltage of the power supply is corresponded to the voltage on the fixture's identifications before professionals install it. Please also make sure it has overload or leakage protection.
- If the external cable is damaged, don't change it by yourself, please contact the manufacture/local as soon as possible.
- AC220V: Lighting fixture connection not surpass 4 units (2.5mm²).
- AC110V: Lighting fixture connection not surpass 2 units (12AWG).

Installation specification

Installation points for attention

- To prevent the dirt and oil leave on the lens, please do not touch the lens of LED with bare hands when you change LED beads.
- Please do not install other similar LED or this action may lead to safety issues and damage to the fixture. We do not take any responsibility if you use other similar LED. We strongly suggested to use the LED model that we recommend.
- For lower the risk of damage the fixture, please change the LED before it exceed its lifespan.
- It is forbidden to use LED which is damaged or scratched.

Installation instruction & requirement

The user needs to make regularly inspect the safety fixtures and installing parts, if there is lack of operating conditions and professional standards, please operate it by professional person, to avoid to incorrect installation by non-professional person leading to property loss or life danger.

Make sure there is no damage to rigging and clamps and they can bear at least 6 times weight of the fixture. Check if the truss or pipe construction can bear at least 6 times total weight of all equipment, clamps, cables and accessories.

G-clamp Installation

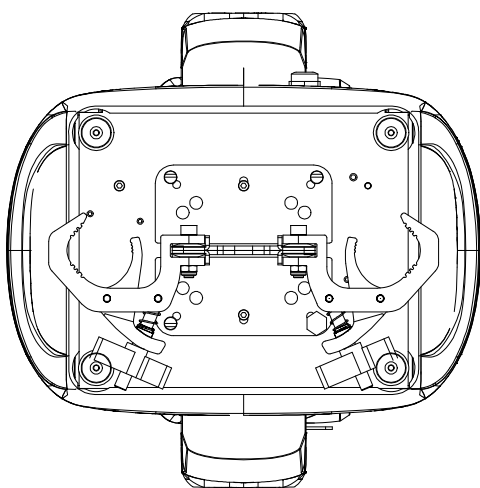
- The G-clamp is integrated with the fixture (pic 5).

Fixture installation

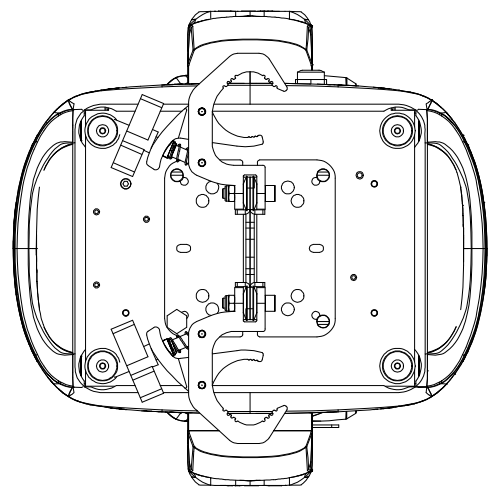
Fixture is installed on the stage or truss, and the G-clamp can be locked on the truss tightly. (Pic6)

Notice:

- User must check the G-clamp and safety chain are damaged or not.
- The fixture must be fixed by two G-clamps, clockwise rotate them to fast-lock tightly, and add a safety rope onto the hole that designed for the safety rope in the base of the fixture, it is prohibited to connect it to the handle.
- Please unlock the lock of pan/tilt before power on.
- Side hanging for long time is not recommended.

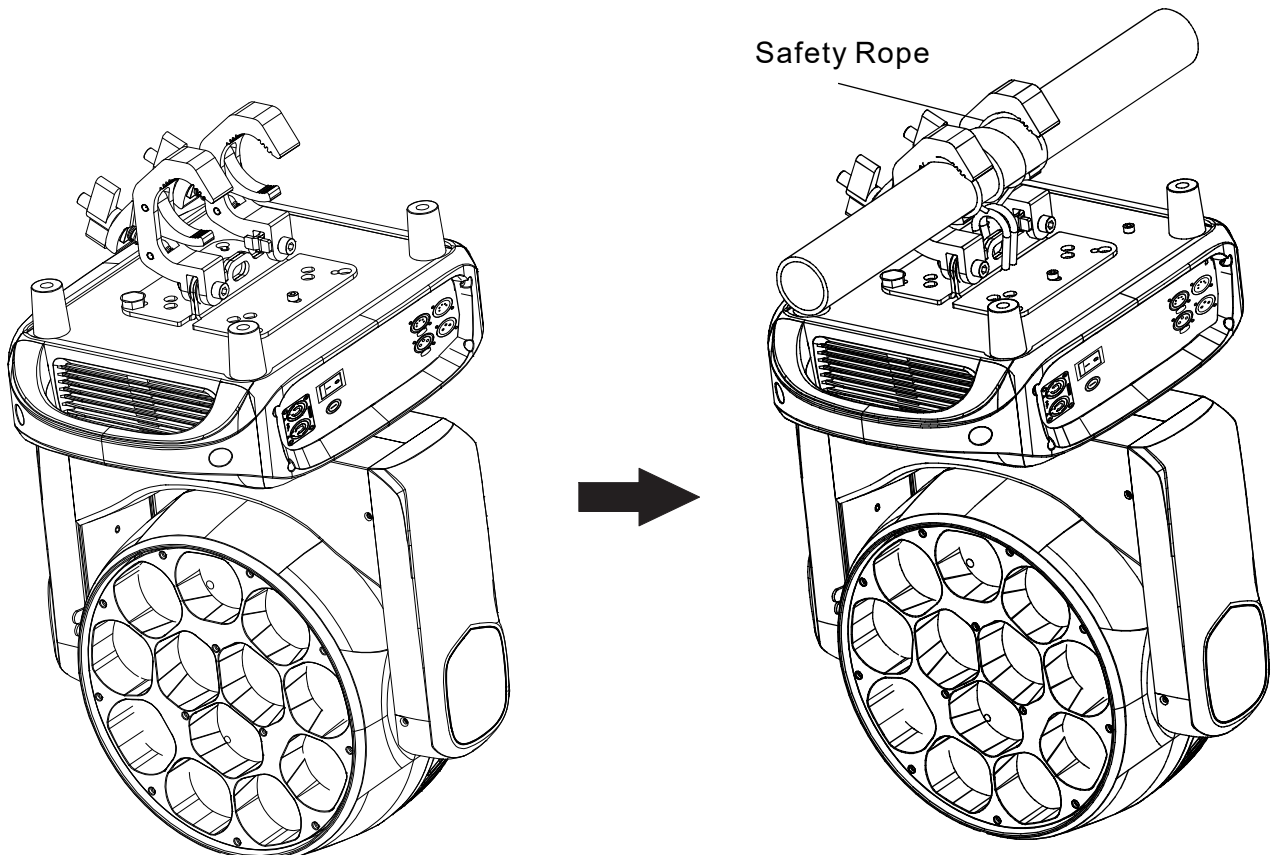


Horizontal direction



Vertical direction

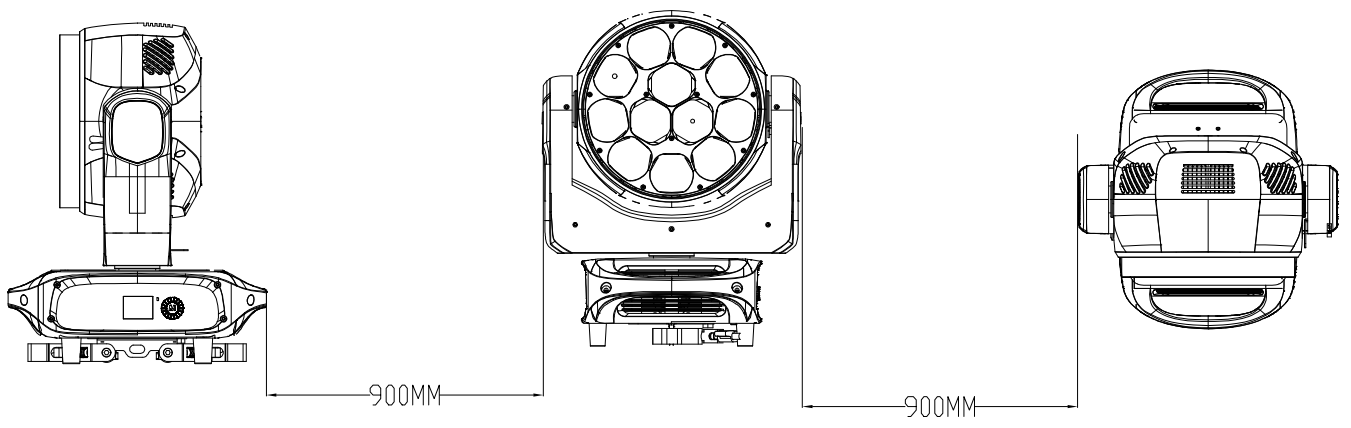
Pic5



Pic6

Fixture placement

Please check inflammables or others near the fixture when placing the fixture,
 The shortest safety distance between the adjacent fixture $\geq 0.9m$. the layout is as bellow (Pic7)



Pic7

DMX Channel Sheet

Channel	11/HSIC	17/STANADARD	18/SHAPE	58/EXPANSION
1	Pan	Pan	Pan	Pan
2	Pan Fine	Pan Fine	Pan Fine	Pan Fine
3	Tilt	Tilt	Tilt	Tilt
4	Tilt Fine	Tilt Fine	Tilt Fine	Tilt Fine
5	Pan/Tilt Speed	Pan/Tilt Speed	Pan/Tilt Speed	Pan/Tilt Speed
6	Strobe	Dimmer	Dimmer	Dimmer
7	Hue	Dimmer Fine	Strobe	Dimmer Fine
8	Staturation	Strobe	Red	Strobe
9	Intensiy	Red	Green	Red 1
10	Zoom	Green	Blue	Green 1
11	Reset	Blue	White	Blue 1
12	-	White	Color Macro	White 1
13	-	Color Temperature Adjustment	Effect	Red 2
14	-	Color Macro	Effect Speed	Green 2
15	-	Effect	Background Color	Blue 2
16	-	Zoom	Background Brightness	White 2
17	-	Reset	Zoom	Red 3
18	-	-	Reset	Green 3
19	-	-	-	Blue 3
20	-	-	-	White 3
21	-	-	-	Red 4
22	-	-	-	Green 4
23	-	-	-	Blue 4
24	-	-	-	White 4
25	-	-	-	Red 5
26	-	-	-	Green 5
27	-	-	-	Blue 5
28	-	-	-	White 5
29	-	-	-	Red 6
30	-	-	-	Green 6
31	-	-	-	Blue 6
32	-	-	-	White 6
33	-	-	-	Red 7
34	-	-	-	Green 7
35	-	-	-	Blue 7
36	-	-	-	White 7
37	-	-	-	Red 8
38	-	-	-	Green 8
39	-	-	-	Blue 8
40	-	-	-	White 8
41	-	-	-	Red 9
42	-	-	-	Green 9
43	-	-	-	Blue 9
44	-	-	-	White 9
45	-	-	-	Red 10
46	-	-	-	Green 10
47	-	-	-	Blue 10
48	-	-	-	White 10
49	-	-	-	Red 11
50	-	-	-	Green 11
51	-	-	-	Blue 11
52	-	-	-	White 11
53	-	-	-	Red 12
54	-	-	-	Green 12
55	-	-	-	Blue 12
56	-	-	-	White 12
57	-	-	-	Zoom
58	-	-	-	Reset

DMX Channel Control Details

Standard	Expansion	shape	HSI	DMX Properties	DMX Value	DMX Contents
1	1	1	1	Pan	0 - 255	Pan rotate
2	2	2	2	Pan Fine	0 - 255	Pan fine
3	3	3	3	Tilt	0 - 255	Tilt rotate
4	4	4	4	Tilt Fine	0 - 255	Tilt fine
5	5	5	5	PT Speed	0 - 255	Pan/Tilt Speed
6	6	6	/	Dim	0 - 255	Dimmer
7	7	/	/	Dim Fine	0 - 255	Dimmer fine
8	8	7	6	Strobe	0 - 3	Turn off
					4 - 103	Regular strobe, speed slow to fast
					104 - 107	Turn on
					108 - 207	Pulse strobe, speed slow to fast
					208 - 212	Turn on
					213 - 225	Random slow speed strobe
					226 - 238	Random medium speed strobe
					239 - 251	Random fast speed strobe
252 - 255	Turn on					
9	/	8	/	Red	0 - 255	Red
10	/	9	/	Green	0 - 255	Green
11	/	10	/	Blue	0 - 255	Blue
12	/	11	/	White	0 - 255	Open
/	/	/	7	Hue	0 - 255	Hue
/	/	/	8	Saturation	0 - 255	Saturation
/	/	/	9	Intensity	0 - 255	Brightness
/	9	/	/	R1	0 - 255	Red 1
/	10	/	/	G1	0 - 255	Green 1
/	11	/	/	B1	0 - 255	Blue 1
/	12	/	/	W1	0 - 255	Open 1
/	13	/	/	R2	0 - 255	Red 2
/	14	/	/	G2	0 - 255	Green 2
/	15	/	/	B2	0 - 255	Blue 2
/	16	/	/	W2	0 - 255	Open 2
/	17	/	/	R3	0 - 255	Red 3
/	18	/	/	G3	0 - 255	Green 3
/	19	/	/	B3	0 - 255	Blue 3
/	20	/	/	W3	0 - 255	Open 3
/	21	/	/	R4	0 - 255	Red 4
/	22	/	/	G4	0 - 255	Green 4
/	23	/	/	B4	0 - 255	Blue 4


/	24	/	/	W4	0 - 255	Open 4
/	25	/	/	R5	0 - 255	Red 5
/	26	/	/	G5	0 - 255	Green 5
/	27	/	/	B5	0 - 255	Blue 5
/	28	/	/	W5	0 - 255	Open 5
/	29	/	/	R6	0 - 255	Red 6
/	30	/	/	G6	0 - 255	Green 6
/	31	/	/	B6	0 - 255	Blue 6
/	32	/	/	W6	0 - 255	Open 6
/	33	/	/	R7	0 - 255	Red 7
/	34	/	/	G7	0 - 255	Green 7
/	35	/	/	B7	0 - 255	Blue 7
/	36	/	/	W7	0 - 255	Open 7
/	37	/	/	R8	0 - 255	Red 8
/	38	/	/	G8	0 - 255	Green 8
/	39	/	/	B8	0 - 255	Blue 8
/	40	/	/	W8	0 - 255	Open 8
/	41	/	/	R9	0 - 255	Red 9
/	42	/	/	G9	0 - 255	Green 9
/	43	/	/	B9	0 - 255	Blue 9
/	44	/	/	W9	0 - 255	Open 9
/	45	/	/	R10	0 - 255	Red 10
/	46	/	/	G10	0 - 255	Green 10
/	47	/	/	B10	0 - 255	Blue 10
/	48	/	/	W10	0 - 255	Open 10
/	49	/	/	R11	0 - 255	Red 11
/	50	/	/	G11	0 - 255	Green 11
/	51	/	/	B11	0 - 255	Blue 11
/	52	/	/	W11	0 - 255	Open 11
/	53	/	/	R12	0 - 255	Red 12
/	54	/	/	G12	0 - 255	Green 12
/	55	/	/	B12	0 - 255	Blue 12
/	56	/	/	W12	0 - 255	Open 12
13	/	/	/	CCT	0 - 255	Color Temperature Control
14	/	12	/	Macro	0 - 255	Color Macro
/	/	13	/	Shape	0	off
					1-6	LED bead 1 on
					7 -- 13	LED bead 2 on
					14 - 20	LED bead 3 on
					21 -27	LED bead 4 on

					28 - 34	LED bead 5 on
					35 - 41	LED bead 6 on
					42 - 48	LED bead 7 on
					49 - 55	LED bead 8 on
					56 -62	LED bead 9 on
					63 - 69	LED bead 10 on
					70 - 76	LED bead 11 on
					77 - 83	LED bead 12 on
					84 - 90	3 led beads pendulum static shape 1
					91 - 97	3 led beads pendulum static shape 2
					98 - 104	3 led beads pendulum static shape 3
					105 - 111	4 led beads pendulum static shape 1
					112 - 118	4 led beads pendulum static shape 2
					119 - 125	4 led beads pendulum static shape 3
					126 - 132	3 led beads upside down pendulum static shape 1
					133 - 139	3 led beads upside down pendulum static shape 2
					140- 146	3 led beads upside down pendulum static shape 3
					147 -153	3 middle led beads static shape
					154 -160	9 outer ring led beads static shape
					161 - 167	Windmill static shape
					168 -174	Single led bead water flow dynamic shape
					175 - 181	2 led beads water flow dynamic shape
					182- 188	3 led beads water flow dynamic shape
					189 - 195	3 led beads upside down pendulum water flow dynamic shape
					196 -202	4 led beads pendulum water flow dynamic shape
					203 - 209	3 led beads pendulum water flow dynamic shape
					210 - 216	Waveform water flow dynamic effect
					217 -223	Windmill rotate effect
					224 - 230	Petal blossom dynamic effect
					231 - 237	Colorful petal blossom effect
					238 - 244	Colorful petal waveform effect
					245 - 251	Colorful petal rotate effect
					252 - 255	7 color rotate effect
/	/	14	/	Speed	0 - 255	Choose shape effect speed
15	/	/	/	Effect	0	Turn off

					1 - 100	Dream effect
					101 - 200	Waveform effect
					201 - 255	No effect
/	/	15	/	Shape Back	0 - 255	Choose background color of shape
/	/	16	/	Back Dim	0 - 255	Background color brightness from bright to dark
16	57	17	10	Zoom	0 - 255	Zoom
17	58	18	11	Reset/ Prog	0 - 59	Null
					60 - 99	All motor reset
					100 - 200	Turn self running program on
					201 - 255	Null

Fixture maintenance& cleaning

The fixture needs to be daily cleaning and maintenance, because its lifespan depends on working environment and daily maintenance. Please contact company engineer for any questions and feedback any other maintenance problems out of the manual to our professional engineer.

Notes as bellow: 

- Must cut off the power supply before open the shell.
- Please open the shell after the fixture cooling completely
- Cleaning the optics components gently to avoid scratching the surface coating, Don't use any harmful liquid or hard objects to avoid damaging plastic and scratching the surface coating;
- Wiping the particulate Matter with tasteless tissue-paper or cotton cloth with clean, distilled water. Don't wipe the surface, but blow away floating things with pressure gas, any residues must be cleaned with distilled water from center to edge, and then dry it with soft cotton cloth
- Please change the lens in time when it cracks or has other damages
- It is out of warranty any damage caused by fan with overmuch dust, smoke fluidity and abnormal using fixture.
- There is temperature protection device of the fixture, when the temperature is so high that the lamp is off automatically, when this happens, please check the fan is working well or not, checking he fan filter is blocked by dust. Only reset the fixture after the qualified professional technicians troubleshoot well.
- Weekly cleaning and maintenance for the fan filters and lens. Do a complete maintenance in half a year.

Fault treatment

The following are some problems in process of operation, and there are some suggestions for troubleshooting:

Fixture doesn't response, when power on

- Check if power input is normal.
- Check if power switch is on.
- Check if fuse is burned.

Not controlled by the console:

- Check if the display is flicker, if yes, check if DMX signal connector and signal cable are connected well.
- If not flicker, but still no response to control channel, please check if IP address is correct set.
- If DMX signal is not stable, please check XLR socket and signal cable are connected well.

Change another console for testing.

Some channel failure:

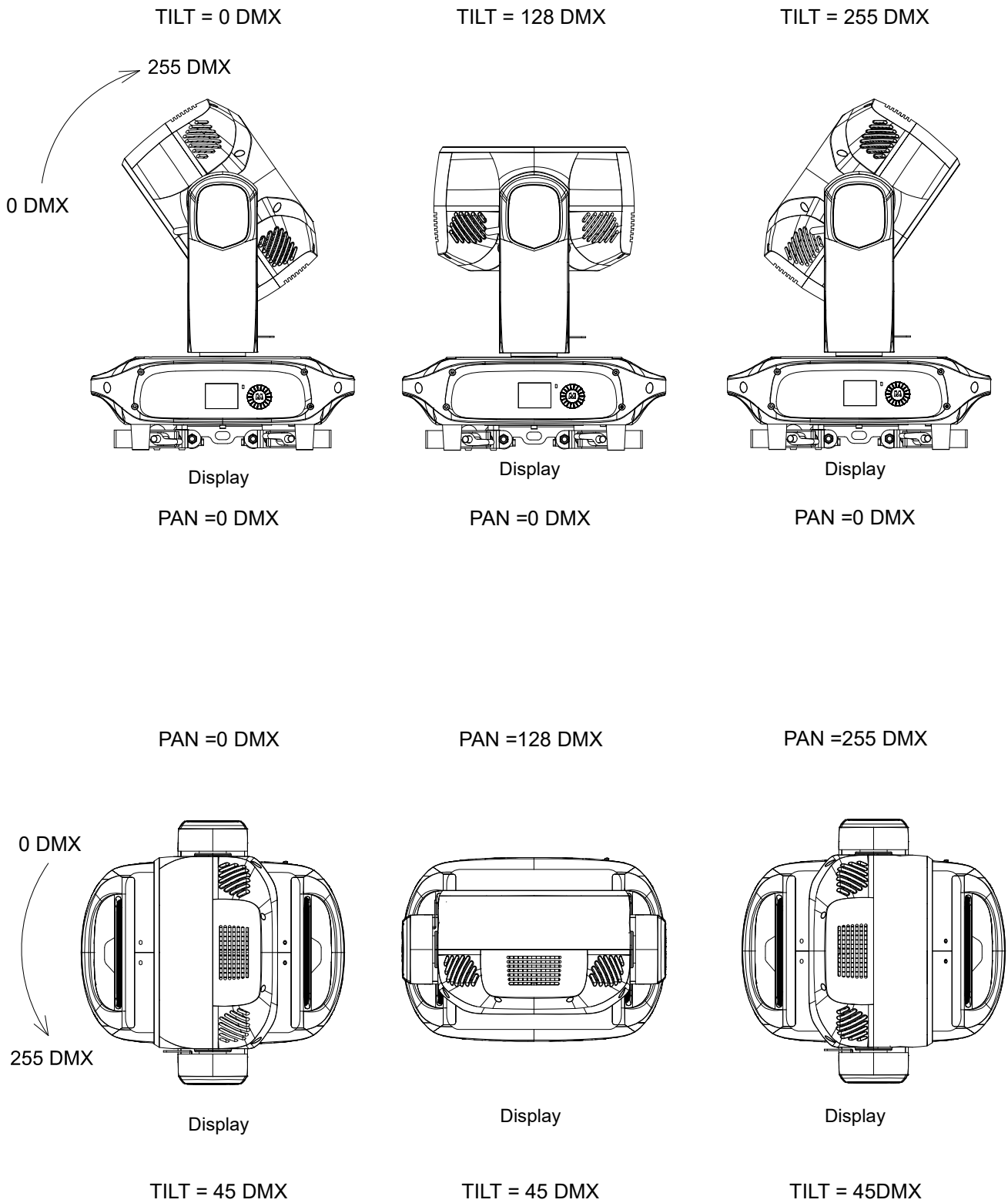
- Maybe step motor or motor leading wire are damaged.
- Maybe drive circuit of motor is damaged.

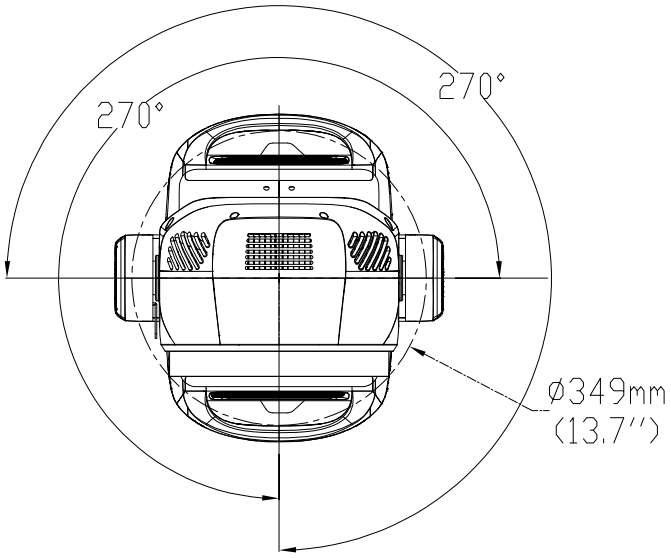
Sometimes leds on sometimes lamp off:

- Check if the voltage is too high or too low, when the lamp is abnormal lighting.
- It is necessary of changing the fan, if inner temperature is too high.

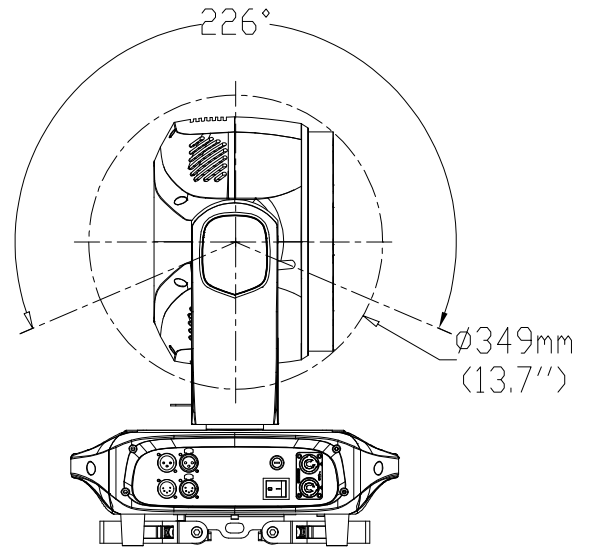
Attached 1: Angle Range Application & Fixture Dimension Drawing

● Fixture using angle range



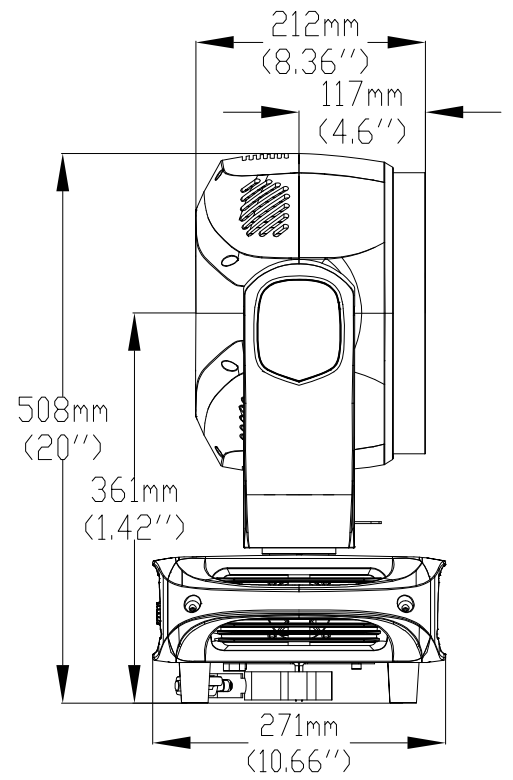
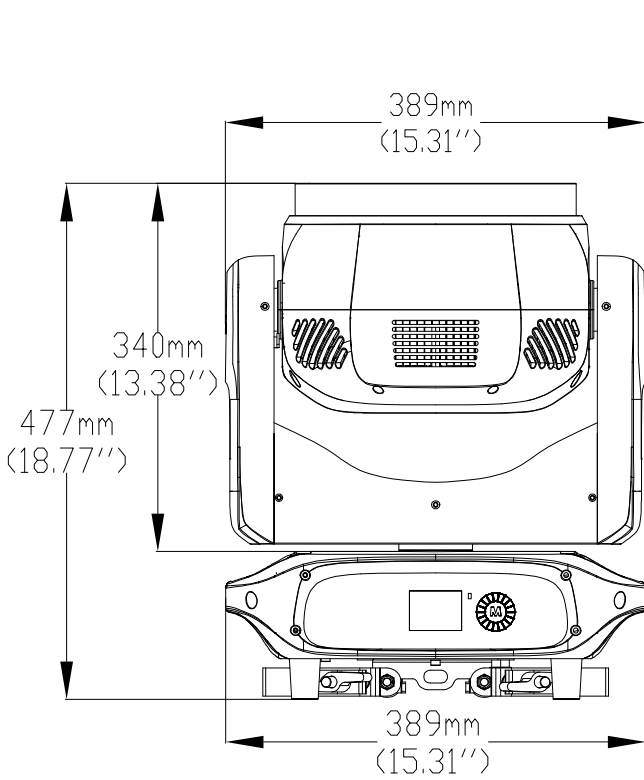


Horizontal direction



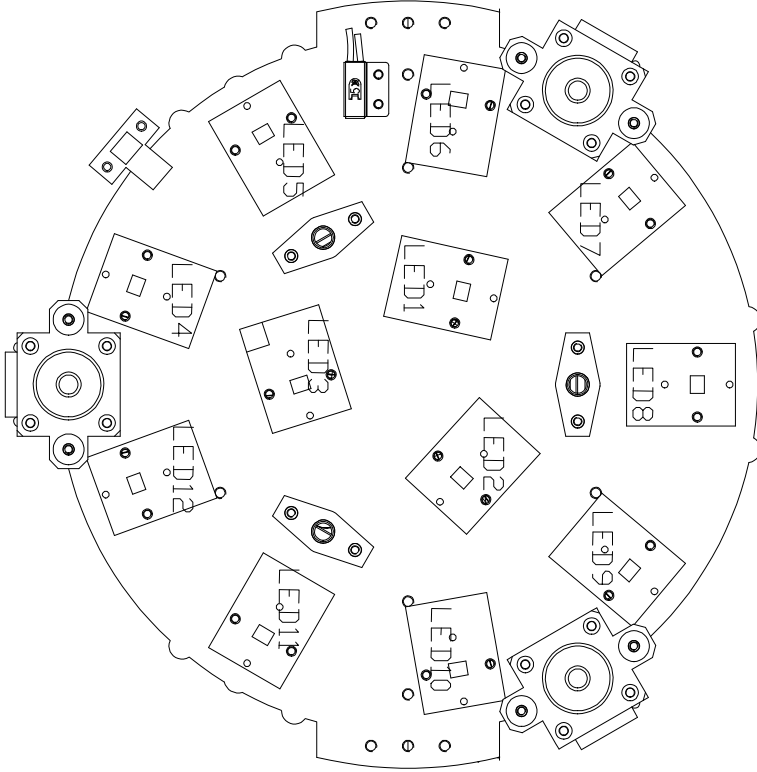
Vertical direction

● Fixture Dimension Drawing

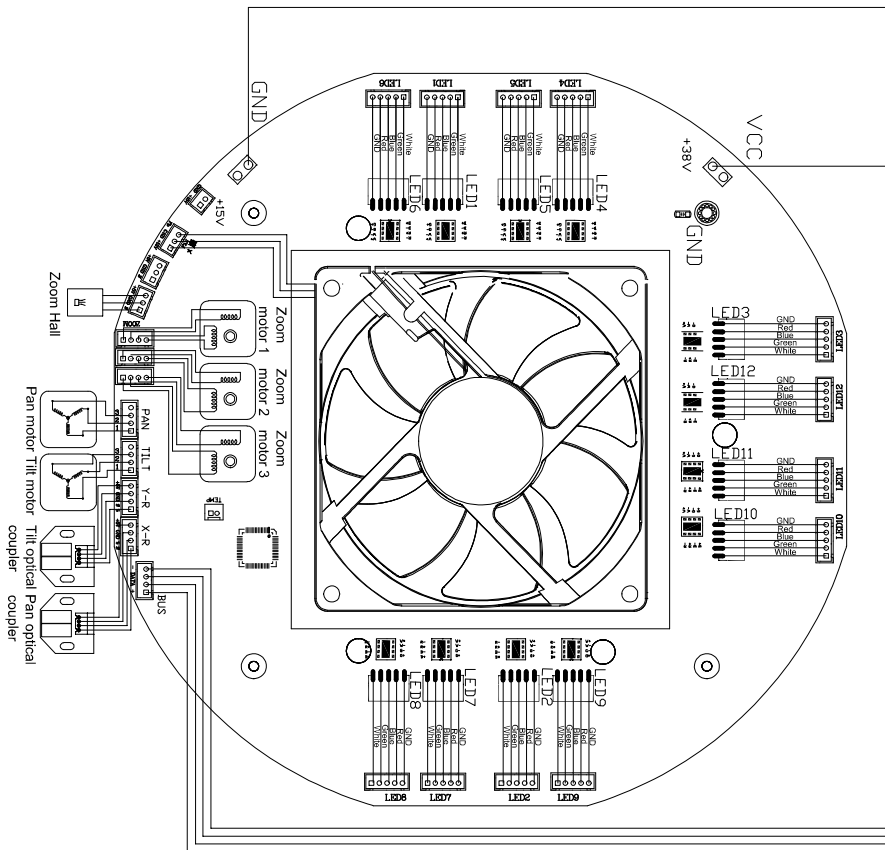
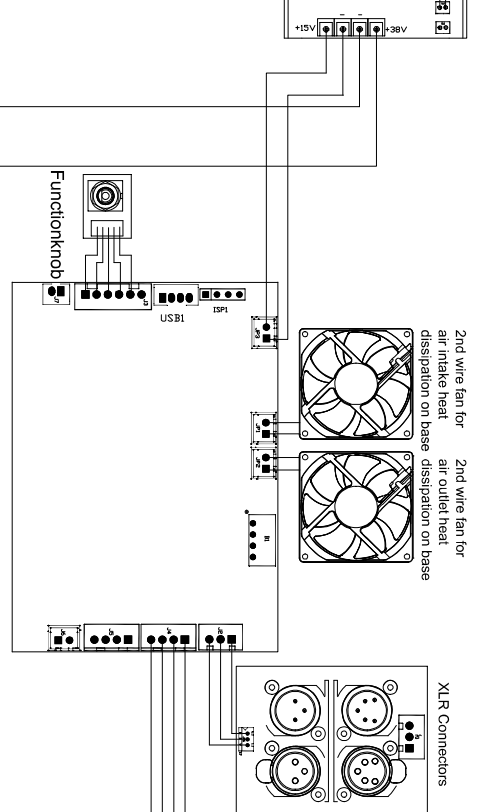
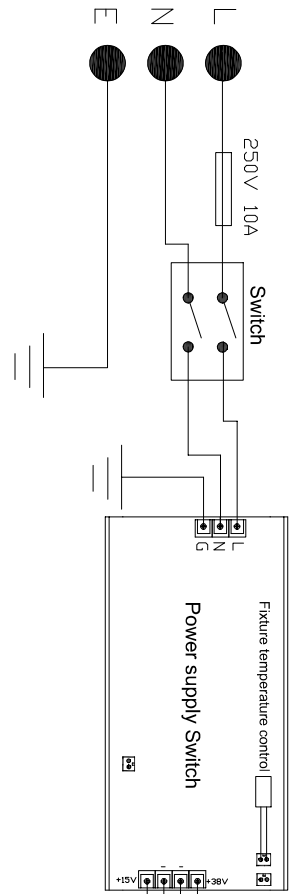


Attached2: Electrical Diagram

LED beads layout display chart



AC200-240v





DREAMLIGHT



Guangzhou Dream Lighting Equipment Co., LTD

Add.No.21,Ruixiang Road, Xinhua Industrial Zone,
Huadu District, Guangzhou

Tel.020 8161 2345 Fax. 020 3686 6631

www.dlw-lighting.com