



DREAM LIGHT Workshop

User Manual

DLW 400 BSW

Guangzhou Dream Lighting Equipment Co., LTD

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Safety Information






Note: Please check the complete package after received , and please unpack and check if the fixture is damaged during shipping. If the fixture is damaged during shipping, please do not use it and contact the manufacturer/local technicians as soon as possible.

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

Caution!	Indoor used only!	Refer to the manual before installation/ power on/ maintenance	Caution Eelectric shock hazard!	Properly grounded	Caution wear goggles!	Caution! High surface temperature Don't touch!	Caution! Must wear gloves!
Caution Prevent fire!	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. The fixture is out of warranty if problems are caused by any incorrect use or negligence of the user manual.
- The fixture is used indoor only; the protection level rate is IP20. Please keep the fixture dry and avoid to use the fixture under the environment of damp, overheating or dusty. Please keep the fixture away from water or any other liquids.
- In order to avoid damage the fixture, it is required more than 1 person when moving the fixture. When hanging the fixture, the hanging device must be tested. The hanging device should be able to bear more than 10 times of weight of the fixture. Please make sure the housing and G-clamp are fixed and do not have damage after installed. 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 of the fixture and the obstacles more than 0.5 meter, and please check the fans and ventilation hole sare not blocked.

- 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.
- Before power on the fixture, please check whether the fuse meets the technical requirements.
Please don't replace the fuse without professional instructions and short circuit it when the fixture is powered on. And then confirm whether the input
- voltage meets the technical requirements and the ground wire is properly connected.
- 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: 12m.
- when the fixture working stably, the maximum surface temperature: $t_c = 90^{\circ}\text{C}$.
- The shortest safety distance to combustible material: 0.5m.
- Please don't touch the fixture when it is working stably. It's highest surface temperature can reach 90°C .
- The distance should be longer than 3.5 m when the installation location of the fixture is designed to be stored for a long time.
- Please pay attention to severe or hazard damage caused by the shock from fire or heat, the UV violation, lamp explored or falling down.
- Please don't look at the lighting fixture without any eye protection.
- Please don't power off the lamp or cut off the power supply when it is working in 5mins, because of the special necessary of Metal halide discharge bubbles. Please reset it or move it or open it after power off for 15mins or cooling completely.
- 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 cool it down for over 15 minutes before packing the fixture.
- Lock the protection lock well with Pan=0°, Tilt=90°.
- Please place the fixture in the plastic bag, and then carefully put it into the flight case vertically, the accessories are placed at special area in flight case, then close the lid and lock the flight case. Please don't put it upside down.

Transport protection lock

- Protective locks for pan and tilt movement are installed in the fixture for safe transportation.

Unpacking

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

Notice: Please check the complete package after received the fixture, please check whether the fixture is 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 technicians as soon as possible.

Accessories with fixture

Accessories	Qty
User Manual	1
Warranty Card	1
Signal Cable	1

Product Introduction Specification

Electrical parameters

AC 200 - 240V 50 / 60 Hz

Rated Input Power:520W rated electrical current:2.6A,PF≥0.98

Light Source parameters

- Light source:PHILIPS MSD Silver 380W LL

Optics parameters

- Lens:High-definition lens with anti-reflective film.
- Zoom range:Beam/Spot:3° ~ 36° Wash:4° ~ 40°

Effect Equipment

- Independent frost effect.
- Mechanical linear dimming 5-100%.
- Fast strobe, multiple options for strobe options: pulse, asynchronous, synchronous, random slow, medium, fast speed
- One 8-facet prism, one 2-phase 16-facet prism, rotate in both directions, overlayable.

Fixture movement parameter

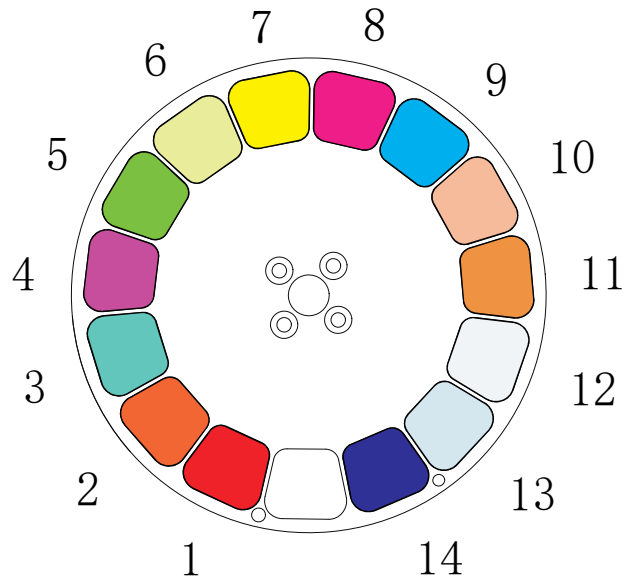
- PAN=540°, 16bit precision adjustment.
- TILT=270°, 16bit precision adjustment.

Electronic Control Technology

- Channel:16Ch/21Ch/25Ch.
- Control protocol: DMX512 , RDM(optional).
- Control Portals: XLR-3,XLR-5(optional).
- Menu display: 1. 7.7inch color LCD touch screen,English and Chinese available, the screen display can be overturned 180°, non-touch rolling wheel operation method.
- Electronic sensors testing.
- RDM data bidirectional transmission.
- Eco mode(sleep mode when standby).
- Power auto-reduction when the light closed,energy conservation, environmental protection.

Color System

● One static color wheel, 14 color filters + open, color rainbow rotate in both directions, stepping, sliding gradient, random color mode.(Pic1)

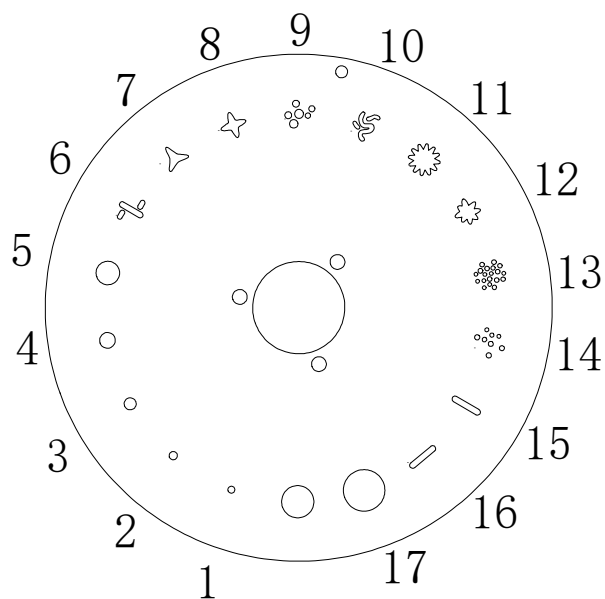


Pic1

1. Red
2. Deep yellow
3. Blueish-yellow
4. Purple-red
5. Green
6. Yellowish-green
7. Light-yellow
8. Fuchsia
9. Blue
10. Brown-yellow
11. Cool
12. Light blueish-purple
13. Fluorescent

Gobo System

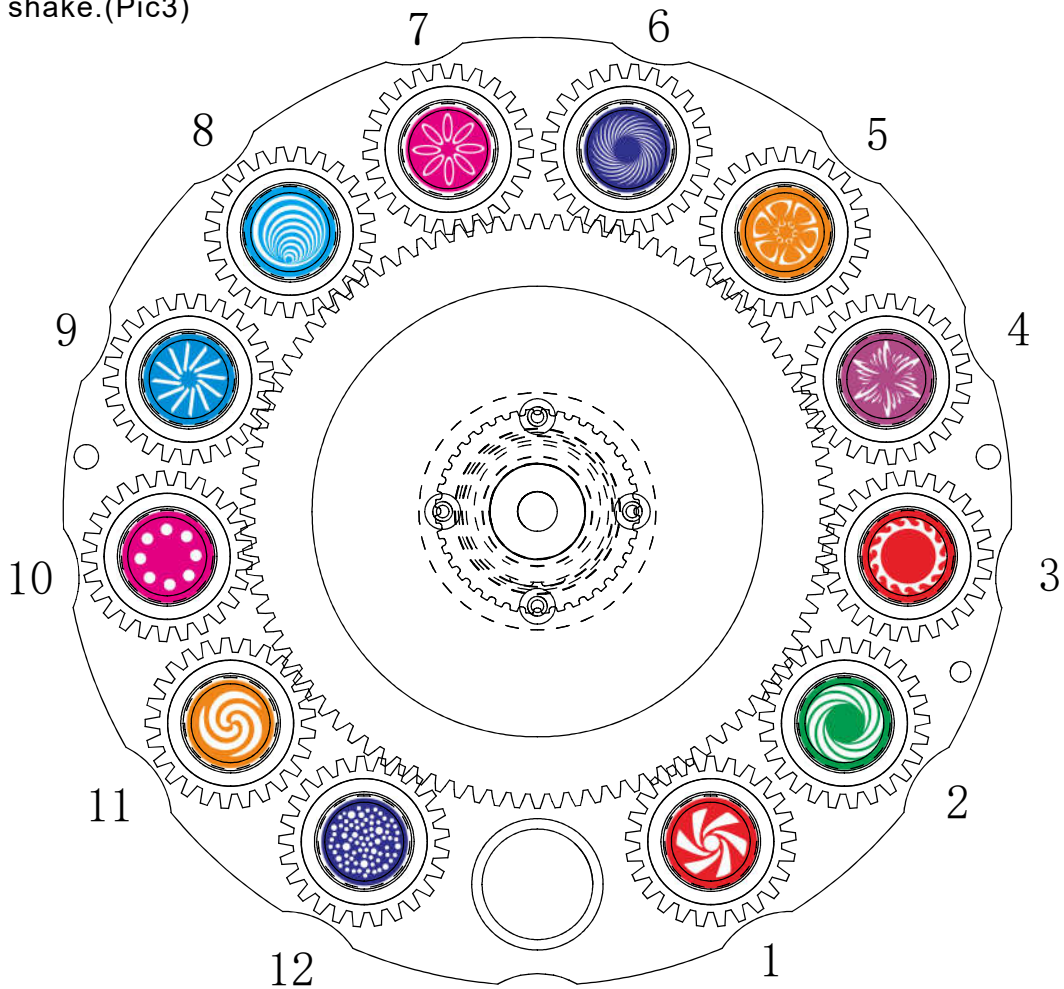
● One Static gobo wheel, 17 gobos+open, water flow, shake (Pic 2)



Pic2

Gobo wheel system

- 1 rotating gobo wheel, 12 bi-directional rotating & positioning gobos, rotation, water flow, shake. (Pic3)



Pic3

Gobo Specifications

The gobos are made from glass, it can be customized according to user needs;

The size for customized gobos:

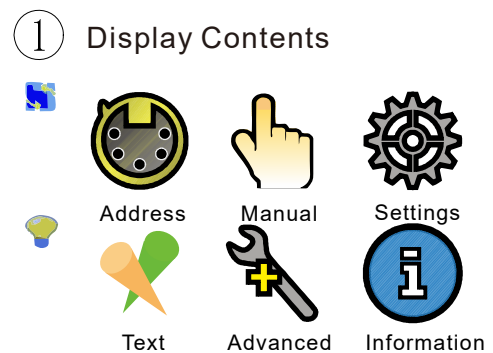
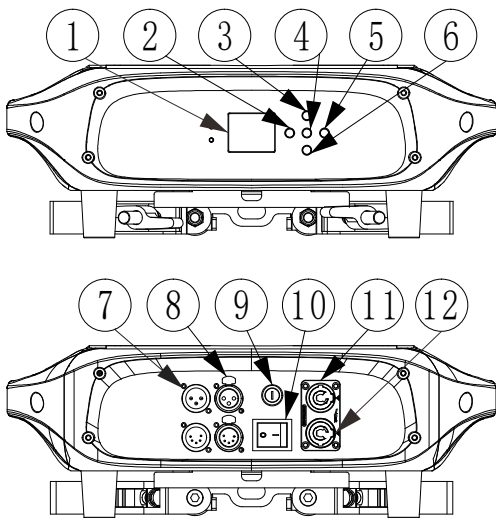
Material	Outer diameter	Effective Diameter	Thickness
Glass Gobo	∅12mm	∅5mm	1.1mm

The glass gobo pieces are made of high temperature resistant glass with coating.

Size & Weight

- Fixture size: 389X337X589mm)
- Packing size: 960x525x740 (mm) (1 flight case 2)
- Net weight of the fixture:20 kg
- Net weight of the Flight case:38kg
- IP Rate: IP20

Operation Panel



Pic4

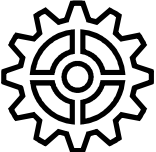



As shown in pic 3:



- | | | | | |
|----------------|-----------------|--------------|----------------|-----------|
| 1.LCD display | 2.Menu(Return) | 3.Up | 4.Display flip | 5. Enter |
| 6.Down | 7.DMX input | 8.DMX output | 9.Fuse box | 10.Switch |
| 11.Power input | 12.Power output | | | |

Operation Panel Instructions

- Up Direction key:Select Sub-menu cyclically(upward).Circulate downward to adjust data value.
- Down Direction key: Select Sub-menu cyclically (downward). Circulate downward to adjust data value.
- Left Direction key(Back):Back to menu.
- Right Direction key(Confirm):Confirm the selected data value o rselect cyclical data window.
- Switch: showing " o" means power off, showing "-" means power on.

Detailed Operation Table of Display panel

Settings 	1.Language	Chinese , English	
	2.Screen Rot	Revere , Foward	
	3.DMX Indicate	Mode 1	
		Mode 2	
		Mode 3	
	4.Screen Light	000-010	
	Exit		
Manual 	1.Lamp Switch	Off , On	
	2.Lamp When	Power On	
		Manual	
		Rest Done	
	3.Rest		
	4.Fan Mode	Auto , Normal , Mute	
	5.Manual Test		
		01.Pan	000-255
		02.Pan Fine	000-255
		03.Tilt	000-255
		04. Tilt Fine	000-255
		05.Strobe	000-255
		06.Dimmer	000-255
		07.Focus	000-255
		08.Zoom	000-255
		09.Color Wheel	000-255
		10.Gobo Wheel	000-255
		11.Gobo rotation	000-255
		12.Fixed Gobo	000-255
		13.Prism1	000-255
	14. Prism1.R	000-255	
	15.Frost	000-255	
	16.Reset	000-255	
6.Exit			
Address 	1.Address	000-255	
	2.Channel Mode	16CH/21CH /25CH	
	3.Signal Mode	DMX	
		Auto	
		Sound	
		Scene	
	4. Scene Select	Auto ,Mode1…Mode10	
5. M/S Choose	Slave , Master , Auto		
6.Exit			
Information 	1.Stepper Info	Pan	XX
		Tilt	XX
		Fixed Gobo1	XX
		Gobo rotation	XX
		Color	XX
		Prism1	XX
		Prism2	XX
		Prism1.R	XX
		Prism2. R	XX
		Focus1	XX
		Frost	XX

		Dimmer	XX
	2. Channel Info	01.Pan	XXX
		02.Pan Fine	XXX
		03.Tilt	XXX
		04.Tilt Fine	XXX
		05.Strobe	XXX
		06.Dimmer	XXX
		07.Focus	XXX
		08.Zoom	XXX
		09.Color	XXX
		10.Fixed Gobo1	XXX
		11.Gobo rotation	XXX
		12.Gobo	XXX
		13.Prism1	XXX
		14.Prism. R	XXX
		15.Frost	XXX
		16.Rest	XXX
	3. Fixture Status	1. Communication	XX%
		2. Error Cnt	XX
		3. Light Temp	XX°C
		4. Panel Temp	XX°C
		5. Sensor1 Temp	XX°C
		6. Sensor2 Temp	XX°C
	4. Version	XXXXXXXXXX	
	5. Light Time	XX:XX	
	6. Total Time	XX:XX	
	Exit		
<p>Advanced</p> 	1. Pan Invert	Off , On	
	2. Tilt Invert	Off , On	XXXX
	3. P/T Rectify	Off , On	XXXX
	4. Pan Offset	XXX	XXXX
	5. Tilt Offset	XXX	XXXX
	6. Data Hold	XXX	
	7. Fine tune	XXXX	XXXX
	8. Factory Setting	Cancel , Perform	
	Exit		
<p>Text</p> 	1. Scene Select	XXX	
	2. Scene Time	X. XXs	
	Exit		

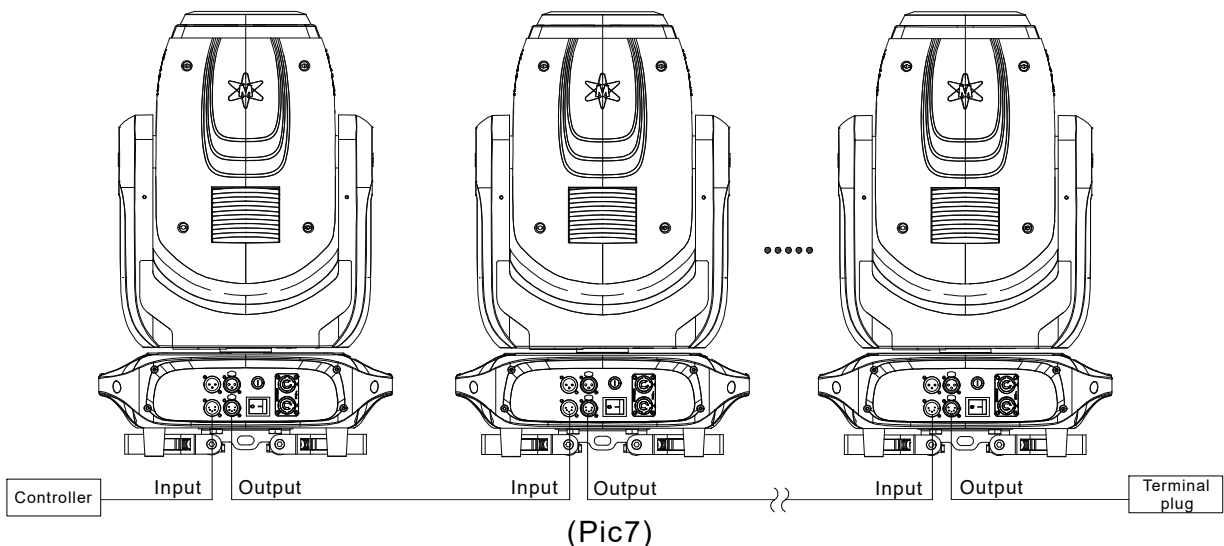
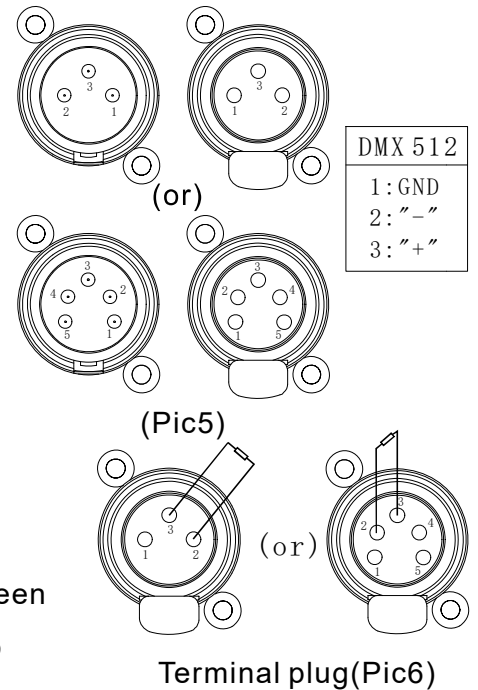
Signal connection

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"+"(Pic5).

Please adopt professional DMX512 STP signal cable, usually its effective range is within 150m. When long distance signal transmission is required, please add DMX 512 signal amplifier.

To avoid the signal reflection during the 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. (Pic6)

Connect the fixture from the DMX output of controller to DMX input of the first fixture, and then connect the first fixture's DMX output to the second fixture's DMX input and so on, until all fixtures are being connected. Then please install a terminal plug in DMX output of the last fixture. (Pic 6) The method of connection as show bellow. (Pic7)



- Notice:
- Don't use multi- output connector for connecting separately, It must connect the branch with DMX512 signal amplifier to separate them if it is required.
 - Standard amplifier cable is not reliable for long-distance data transmission; Please 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

L(Live line)Brown wire

N(Null line)Blue wire


E(Earth line)Yellow and green wire

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.
- Lighting fixture connection not surpass 3 units.

Installation specification

Attention for Installation

● To prevent the dirt and oil leave on the lamp, please do not touch the lamp with bare hands when you replace the lamp. Keep the lamp clean. You can use the cleansing towel that come in with the lamp to clean the lamp. ()

● Please do not install other similar lamp model or this action may lead to safety issues and damage to the fixture. We do not take any responsibility if you use other lamp model. We strongly suggested to use the original lamp model.

● For lower the risk of damage the fixture, please change the lamp before it exceed its lifespan.

● It is forbidden to use the lamp if it is damaged or scratched.

● Please check if the lamp is in right position and aim at the hole before install it into the lamp slot holder.

Installation instruction& requirement

The user need 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 10 times weight of the fixture. Check if the truss or pipe construction can bear at least 10 times total weight of all equipment, clamps, cables and accessories.

G-clamp Instalaaation

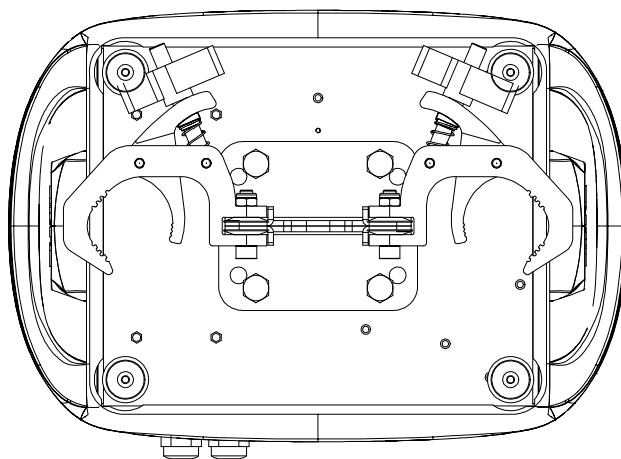
- The G-clamp is integrated with the fixture (pic 8).

Fixture installation

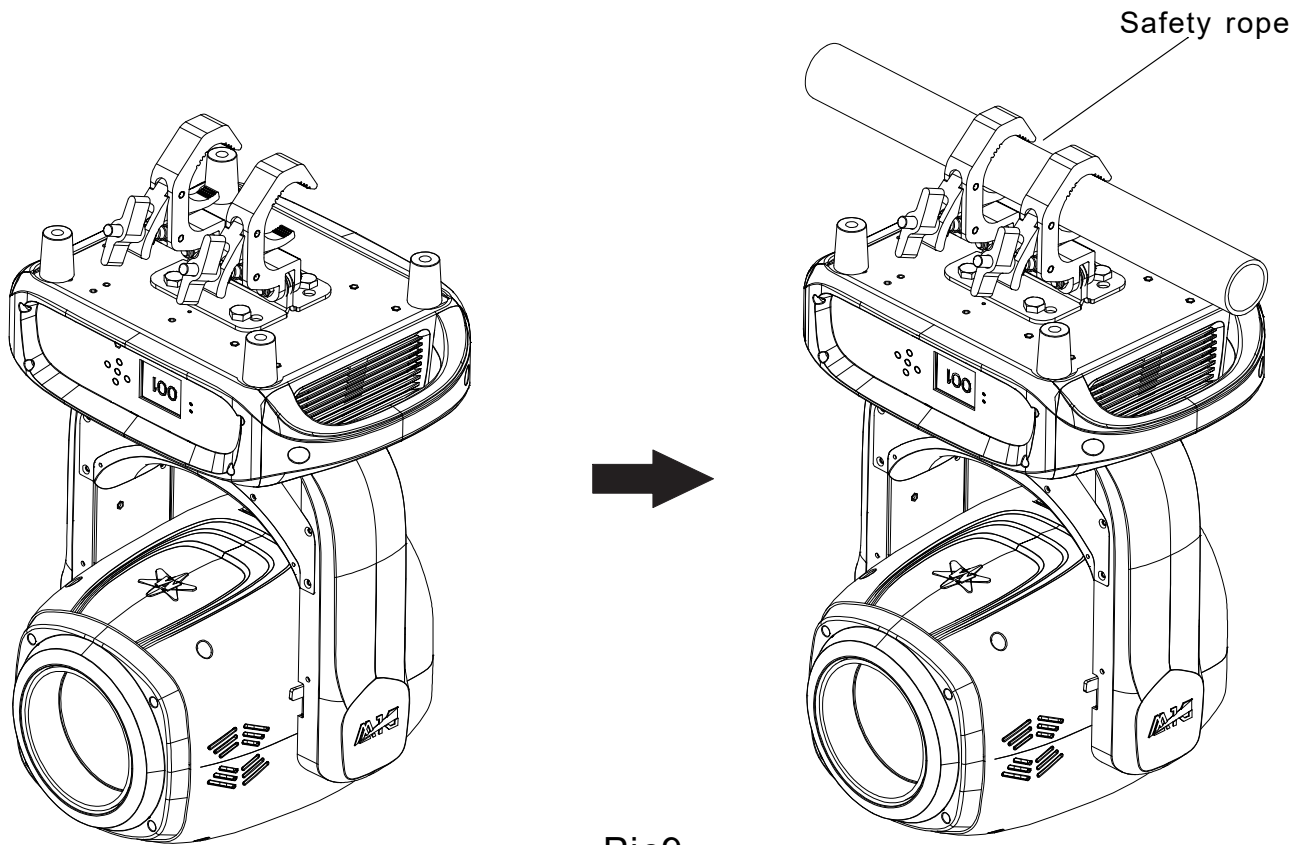
Fixture is installed on the stage or truss, and the G-clamp can be locked on the truss tightly. (Pic9)

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.



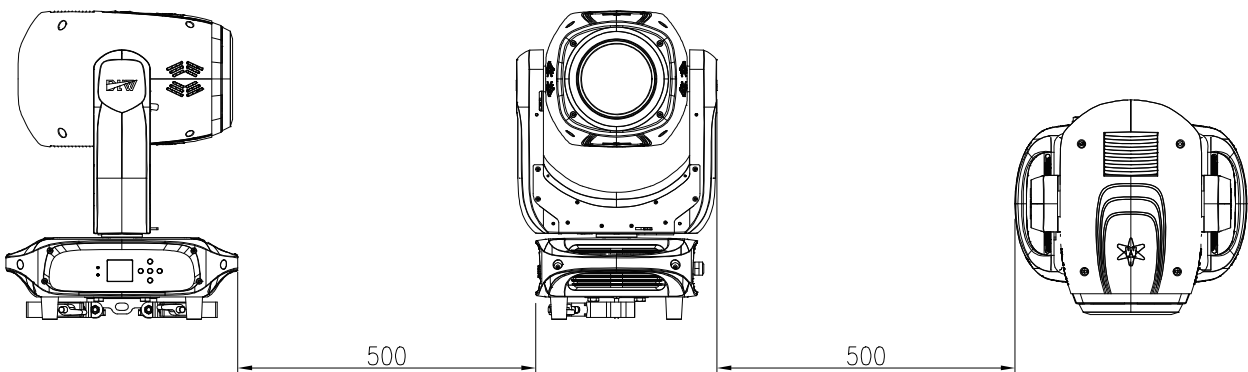
Pic8



Pic9

Fixture Placement

When place the fixture, please check there is no inflammable object or inflammable material around the fixture. Then place the fixture vertically upward. The shortest safety distance for adjacent fixtures is ≥ 0.5 m when they are working. Fixtures installation show as follow (Pic 10).



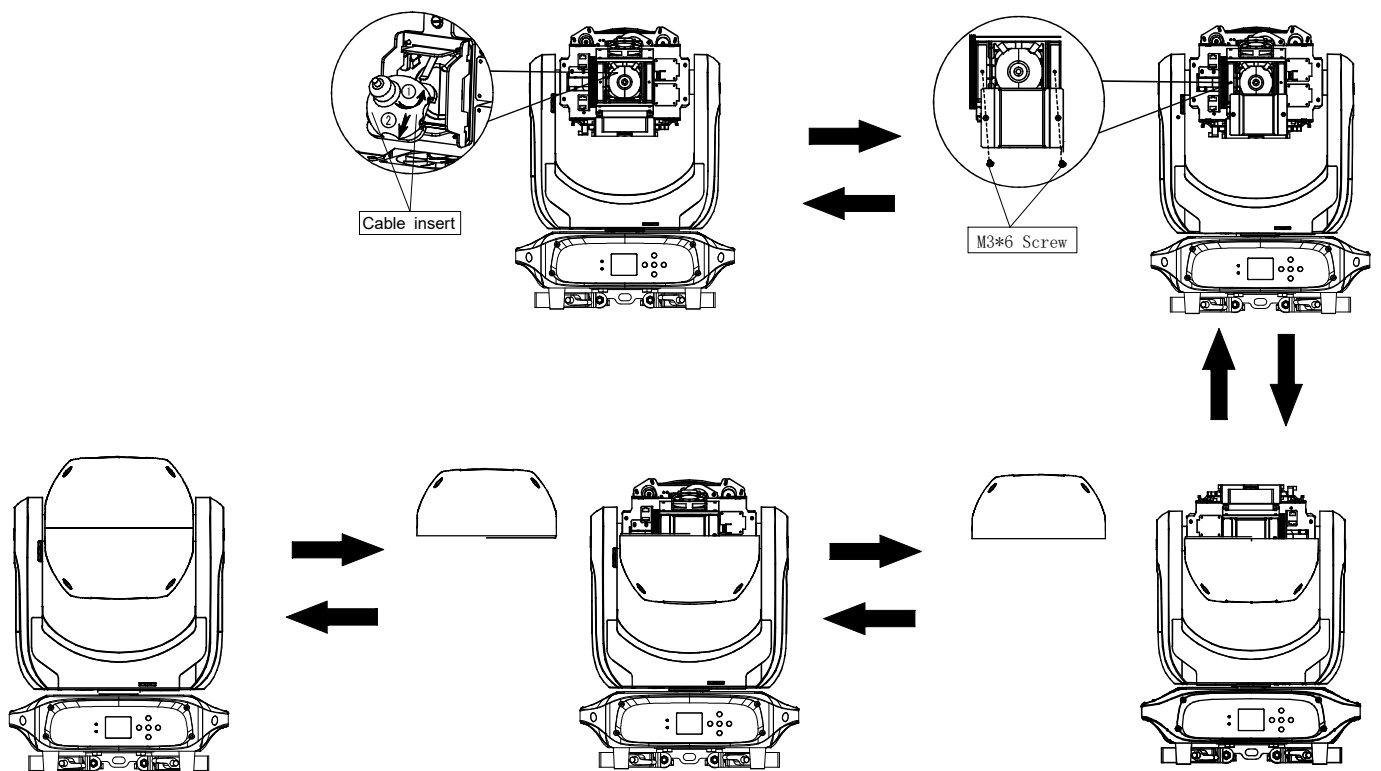
Pic10

Lamp Installation

- Light source: PHILIPS MSD Silver 380W LL

Replace the lamp

- When the lamp is on, please turn off the lamp, wait for the lamp is cooled sufficiently (usually 15 minutes) then cut off the electricity, and lock the tilt lock of the arm on pan position (Pic 11).
- When installing the lamp, please lock the fixture with tilt 135°, and avoid the internal wall of lamp touch the metal plate, gently place the lamp into the lamp slot holder with angle 15°, hold the lamp tight, push it in and give some pressure on the elastic pad, check if the angles of lamp are locked well. The installation of lamp is completed if it is locked well, otherwise it is not. Lock the fixture with tilt 135°, 45° then install the housing (Pic 11).
- When dismantle the lamp, lock the fixture with tilt 135°, 45° then dismantle the housing first, and then take out the fan, unscrew the screws for fixing the lamp, hold the lamp tight and give some pressure on the elastic pad, and wait till the other two angles of lamp are out then take out the lamp with angle of 15°. Please pay attention and avoid the clip touch the internal wall of lamp (Pic 11).



Pic11

DMX Channel Sheet (Brief)

Channel	16CH	21CH	25CH
1	Pan	Pan	Pan
2	Pan Fine	Pan Fine	Pan Fine
3	Tilt	Tilt	Tilt
4	Tilt Fine	Tilt Fine	Tilt Fine
5	Strobe	Strobe	Strobe
6	Dimmer	Dimmer	Dimmer
7	Focus	Dimmer Fine	Dimmer Fine
8	Zoom	Focus	Focus
9	Color Wheel	Focus Fine	Focus Fine
10	Gobo	Zoom	Zoom
11	Gobo Rotation	Zoom Fine	Zoom Fine
12	Fixed Gobo	Color Wheel	Color Wheel
13	Prism	Gobo	Gobo
14	Prism.R	Gobo Rotation	Gobo Rotation
15	Frost	Gobo Rotation Fine	Gobo Rotation Fine
16	Fixture control	Fixed Gobo	Fixed Gobo
17	-	Prism	Prism
18	-	Prism.R	Prism.R
19	-	Prism.R Fine	Prism.R Fine
20	-	Frost	Frost
21	-	Fixture control	Fixture control
22	-	-	Pan-Tilt Speed
23	-	-	Color Speed
24	-	-	Focus/Zoom Speed
25	-	-	Gobo Speed

DMX Specific Channel Sheet

16CH	21CH	25CH	Specifications	DMX Value	Function
1	1	1	Pan	0-255	0°->540°
2	2	2	Pan Fine		
3	3	3	Tilt	0-255	0°->252°
4	4	4	Tilt Fine		
5	5	5	Strobe	0-19	Off
				20-49	On
				50-200	Strobe slow->fast
				201-210	On
				211-255	Random strobe from slow -> fast
6	6	6	Dimmer	0-255	0%-100% Off->On
-	7	7	Dimmer Fine		
7	8	8	Focus	0-255	Far->near
-	9	9	Focus Fine		
8	10	10	Zoom	0-255	From large to small
-	11	11	Zoom Fine		
9	12	12	Color Wheel	0-127	0%->100%
				128-190	Clockwise fast->slow
				191-192	Stop
				193-255	Anticlockwise slow->fast
				0-9	Open
				10-15	Gobo 1
				16-21	Gobo 2
				22-27	Gobo 3
				28-33	Gobo 4
				34-39	Gobo 5
				40-45	Gobo 6
				46-51	Gobo 7
				52-57	Gobo 8
				58-63	Gobo 9
64-69	Gobo 10				

10	13	13	Gobo	70-75	Gobo 11
				76-81	Gobo 12
				82-92	Gobo 1 shake slow→fast
				93-103	Gobo 2 shake slow→fast
				104-113	Gobo 3 shake slow→fast
				114-124	Gobo 4 shake slow→fast
				125-135	Gobo 5 shake slow→fast
				136-145	Gobo 6 shake slow→fast
				146-156	Gobo 7 shake slow→fast
				157-167	Gobo 8 shake slow→fast
				168-177	Gobo 9 shake slow→fast
				178-188	Gobo 10 shake slow→fast
				189-199	Gobo 11 shake slow→fast
				200-209	Gobo 12 shake slow→fast
				210~232	Anticlockwise water slow→fast
233~255	Clockwise rotation from slow→fast				
11	14	14	Gobo Rotation	0-127	Indexing(0-360Degree)
				128-190	Clockwise rotation from slow→fast
				191-192	Stop
				193-255	Anticlockwise water slow→fast
-	15	15	Gobo Rotation Fine		
				0-3	Open
				4-7	Gobo 1
				8-11	Gobo 2
				12-15	Gobo 3
				16-19	Gobo 4
				20-23	Gobo 5
				24-27	Gobo 6
				28-31	Gobo 7
				32-35	Gobo 8
				36-39	Gobo 9

12	16	16	Fixed Gobo	40-43	Gobo 10
				44-47	Gobo 11
				48-51	Gobo 12
				52-55	Gobo 13
				56-59	Gobo 14
				60-63	Gobo 15
				64-67	Gobo 16
				68-71	Gobo 17
				72-113	Anticlockwise water slow->fast
				114-117	Stop
				118-159	Clockwise rotation from slow->fast
				160-164	Gobo 1 shake slow->fast
				165-170	Gobo 2 shake slow->fast
				171-175	Gobo 3 shake slow->fast
				176-181	Gobo 4 shake slow->fast
				182-187	Gobo 5 shake slow->fast
				188-192	Gobo 6 shake slow->fast
				193-198	Gobo 7 shake slow->fast
				199-204	Gobo 8 shake slow->fast
				205-209	Gobo 9 shake slow->fast
				210-215	Gobo 10 shake slow->fast
				216-221	Gobo 11 shake slow->fast
				222-226	Gobo 12 shake slow->fast
				227-232	Gobo 13 shake slow->fast
				233-238	Gobo 14 shake slow->fast
				239-243	Gobo 15 shake slow->fast
244-249	Gobo 16 shake slow->fast				
250-255	Gobo 17 shake slow->fast				
13	17	17	Prism	0-10	Open
				11-92	Prism1 insert
				93-174	Prism2 insert

				175-255	Prism1&2 insert
14	18	18	Prism.R	0-127	Indexing(0-360Degree)
				128-190	Rotate fast->slow
				191-192	Stop
				193-255	Rotate slow->fast
-	19	19	Prism.R Fine		
15	20	20	Frost	0-255	Frost insert
-	-	-	Frost Fine		
16	21	21	Fixture control	0-9	Null
				10-14	Fixture reset
				15-29	Specific reset
				30-34	Pan/Tilt reset
				35-39	Reserved
				40-44	Lamp on
				45-49	Lamp off
				215-255	Reserved
-	-	22	Pan-Tilt Speed	0-255	Stepping time fast->slow
-	-	23	Color Speed	0-255	Stepping time fast->slow
-	-	24	Focus/Zoom Speed	0-255	Stepping time fast->slow
-	-	25	Gobo Speed	0-255	Stepping time fast->slow

Maintenance & cleaning of the fixture

The fixture needs to be maintained and cleaned daily, because its lifespan depends on working environment and daily maintenance. Please contact our company engineer for any questions and feedback which are out of this user manual to our professional engineer.

Notes as bellow: 

- The power supply must be cut off before open the shell.
- Please open the shell after the fixture cooled completely
- Cleaning the optics components gently to avoid scratching the surface coating, To avoid damaging plastic and scratching the surface coating, Please don't use any harmful liquid or hard objects.
- 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 too high the LED module will be off automatically. When this happens, please check if the fan is working well or not. Plus, checking if the fan filter is blocked by dust. Please only reset the fixture after the qualified professional technicians finish troubleshooting.
- Weekly cleaning and maintenance for the fan filters and lens is recommended. Please do a complete maintenance half a year.

Troubleshooting

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. **channel failure:**
- Check if power switch is on. ● Step motor or motor leading wire Maybe damaged.
- Check if fuse is burned. ● Drive circuit of motor may be damaged.

Lamp blinking:

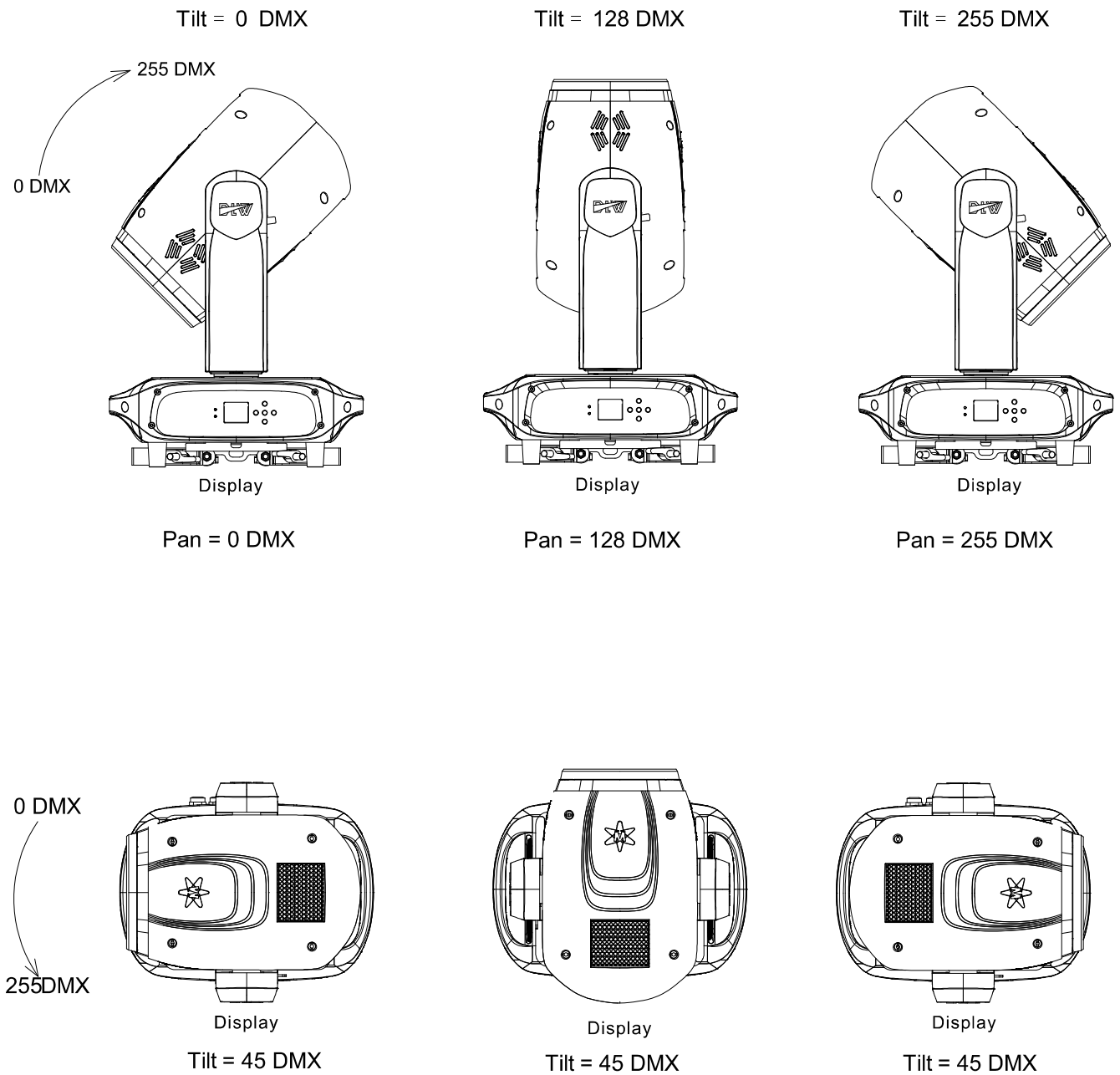
- Check if the voltage is too high or too low, when the lamp is abnormal lighting.
- It is necessary to change the fan if the inner temperature is too high.

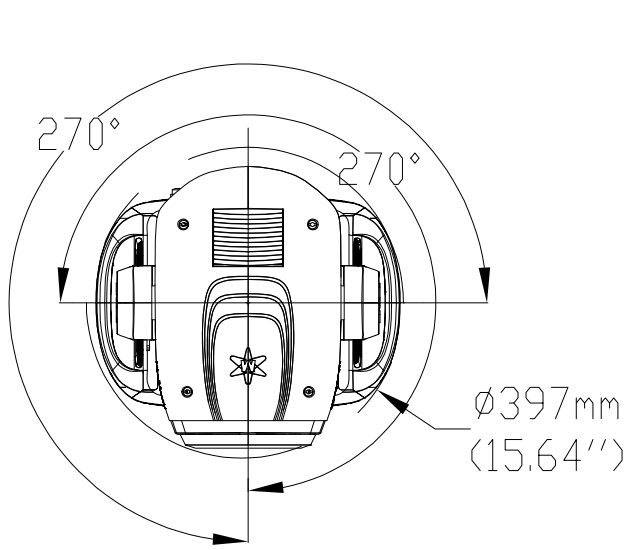
Console losing control:

- Check if the display is flicker, if yes, check if DMX signal connector and signal cable are connected well.
- If the display is not flickering, but the fixture is still have no response to the control channel instructions, please check if IP address is correctly set.
- If DMX signal is not stable, please check XLR socket and signal cable are connected well.
- Change another console for testing.

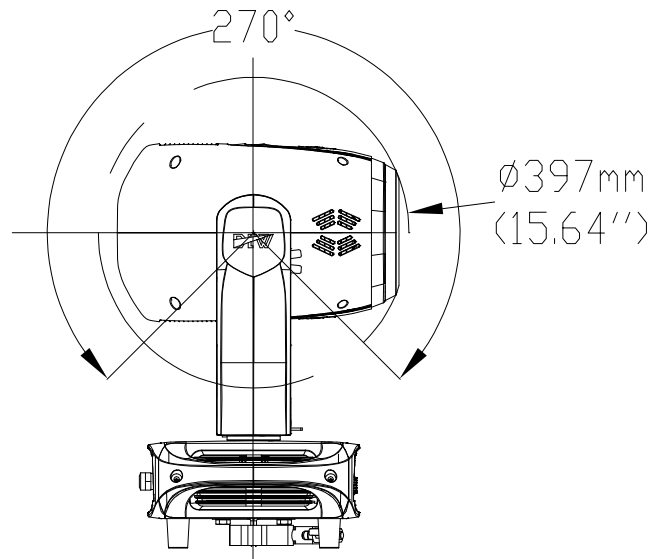
Attachment 1 Angle range and the measurement figure of the fixture

● Angle range of the fixture



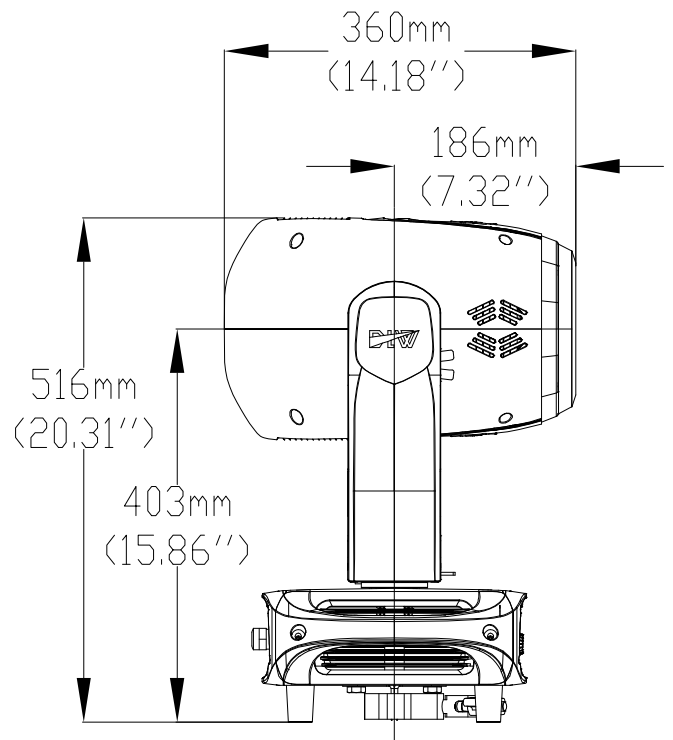
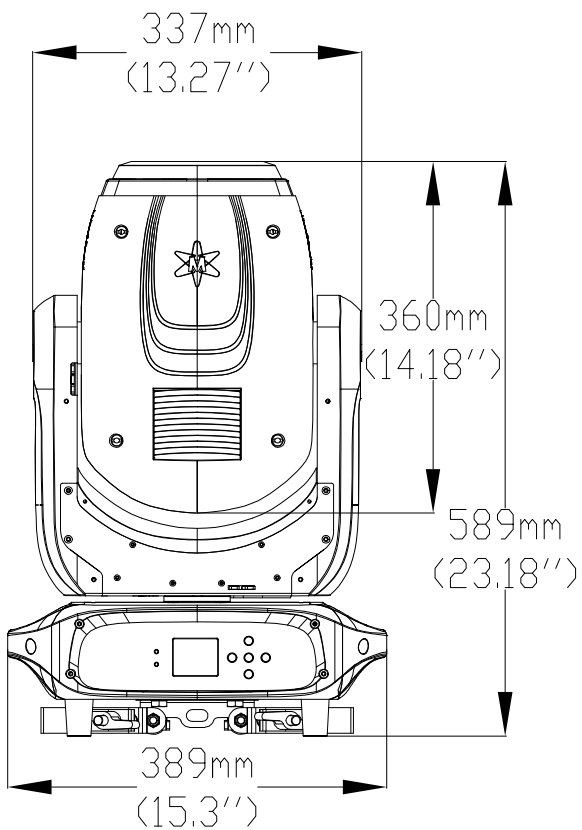


Horizontal direction

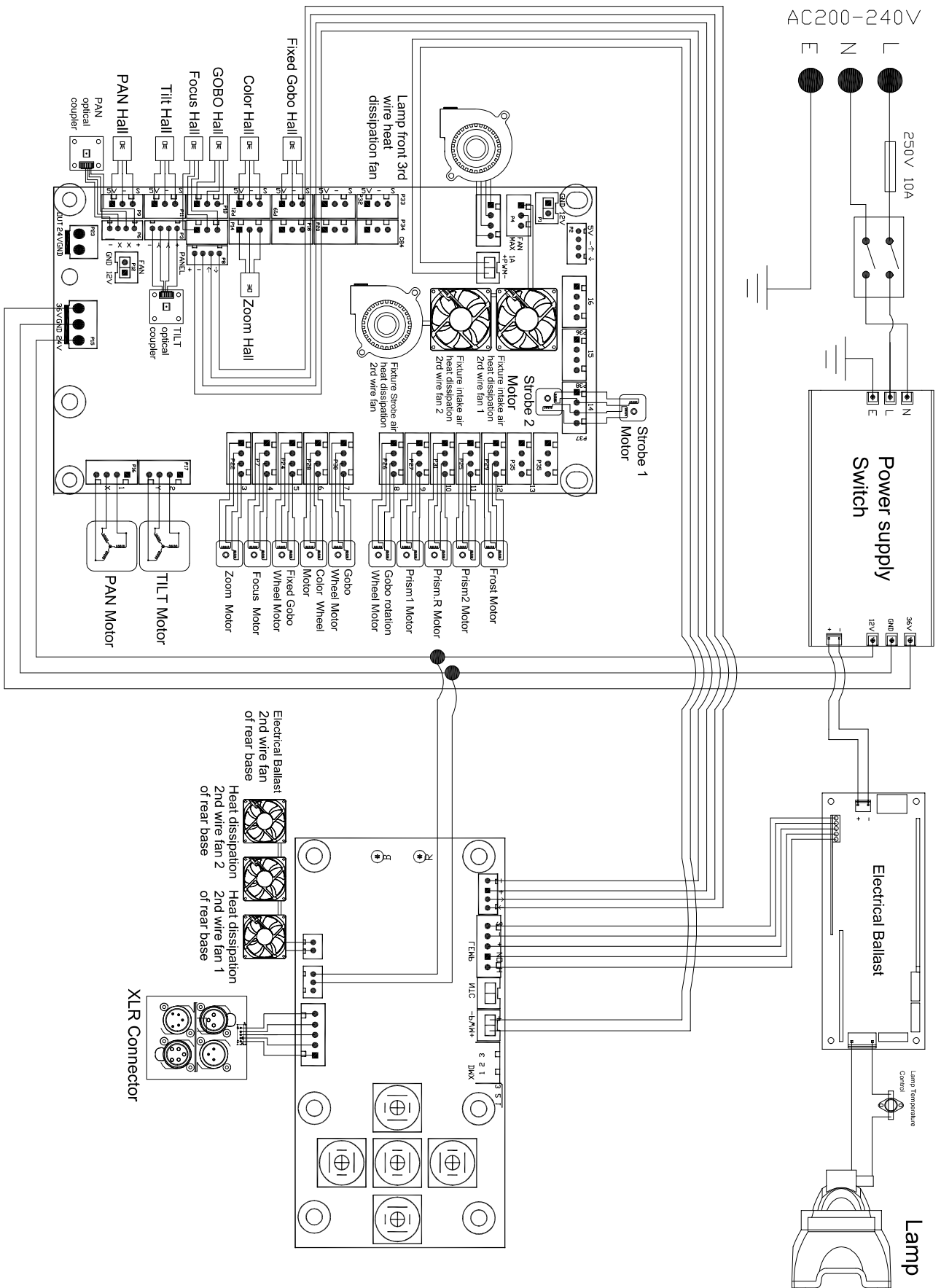


Vertical direction

● **The measurement figure of the fixture**



Attachment 2: Electrical Diagram





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