




DREAM LIGHT Workshop

User Manual

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DREAM L650 SPOT
DREAM L650H SPOT

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: 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 distance should be longer than 3.5 m when the installation location of the fixture is designed to be stored for a long time.
- When using the fixture, please pay attention to severe damage caused by the shock from fire, heat, or the UV violation.
- 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 15minutes before packing the fixture.
- Lock the protection lock for pan and tilt well.
- 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 Specifications

Electrical parameters

AC 200 - 240V 50 / 60 Hz

Input Power:800W rated electrical current: 4A, PF≥0.98

Light Source parameters

- DREAM L650 SPOT Light source :650W LED white source module(high brightness).
- DREAM L650H SPOT Light source :650W LED white source module(high CRI).
- LED module expected lifespan:20000Hrs.

Optics parameters

- Lens:High-definition lens with anti-reflective film.
- Zoom range: 6°~56°

Effect configuration

- 2 prisms, one is 4-facet linear and one is 6-facet circle, can be independent and overlapping combined, can be bidirectional rotating, can be auto-focus.
- Two atomized frosts with high-bright output.
- 0-100% linear dimmer,4 dimming curve options, 4 dimming speed options.
- Electric strobe 1-25Hz,multiple strobe effects.
- Fast electric Iris,5-100% linear adjustment, multi-effects changing with macro function.

Fixture movement

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

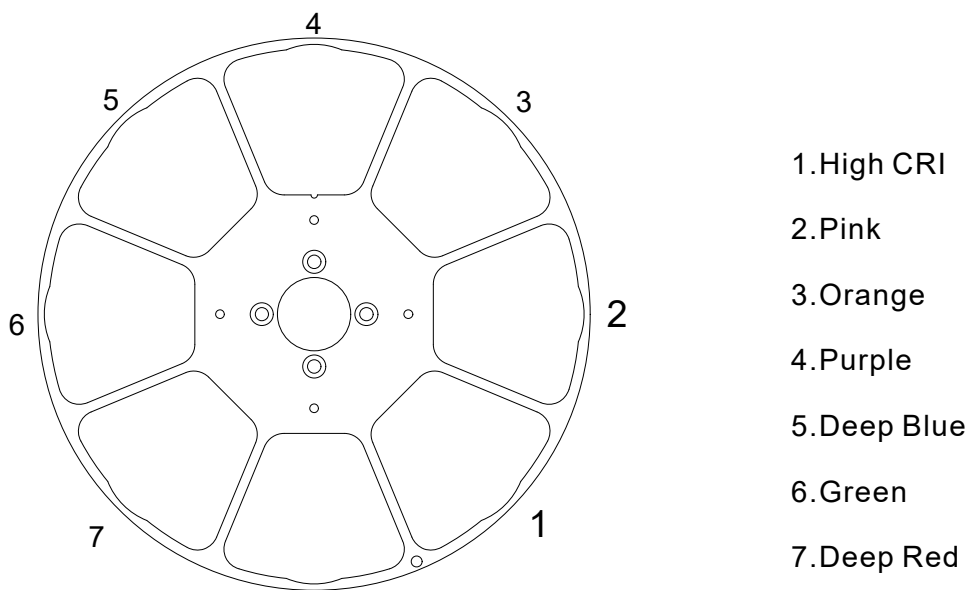
Electronic Control

- Channel:25Ch/29Ch/42Ch.
- Control Protocols:DMX512,RDM,Art-Net,sACN,wireless function(optional).
- Control Portals: XLR-3+ XLR-5; RJ45 (optional).
- Menu display: 2.4" LCD screen; choice of Chinese and English language, menu available to be displayed 180° reversely.
- Built-in self-rechargeable battery, menu can be edited without power supply (optional version); Support connecting with power bank to enter the menu and edit address code and other settings.

- Electronic sensors testing, fan intelligent detect and controllable.
- Eco mode(sleep mode when standby)
- Non-touching magnetic encoder positionable system for pan/tilt.

Color System

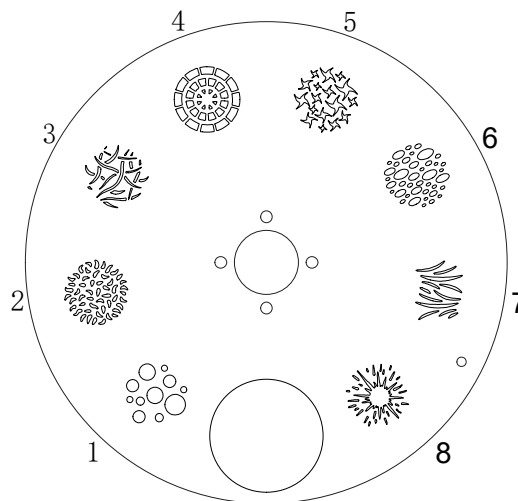
- CMY infinite color mixing,high saturated color (RGB) output, pure colors.
- CTO color temperature ,3200K-6200K linear adjustment.
- One static color wheel,7color filters plus open, color wheel can rotate in both direction, effects of rainbow,stepping,gradual changing colors.(Pic1).



Pic1

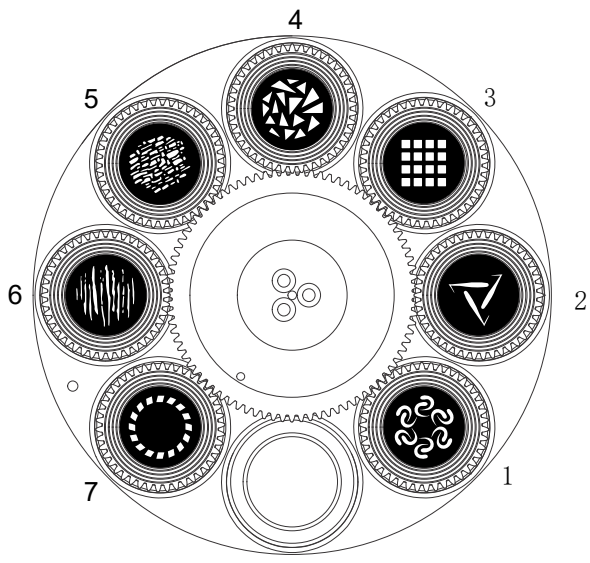
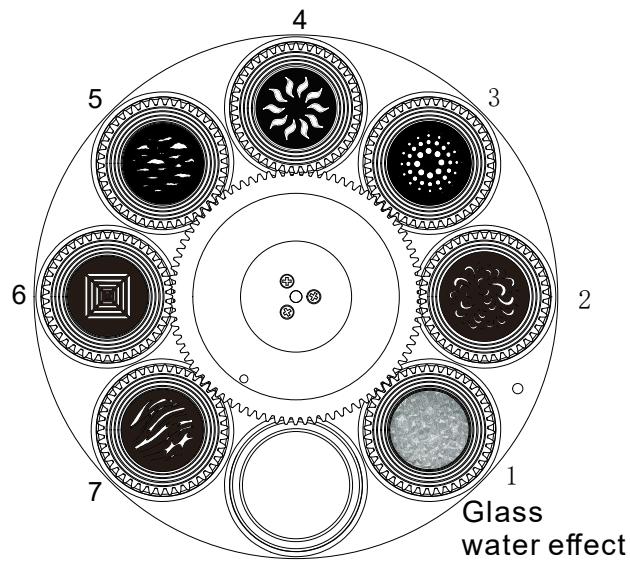
Gobo System

- 1 fixed gobo wheel with 8 static gobos + 1 open circle, has bidirectional flowing effect.



PIC2

- 2 rotating gobo wheel with 7 unique gobos + 1 open circle, can bi-directional rotate with effects of self-rotation, running water and shaking, the gobos can be accurately controlled at 16bit.



PIC3

Gobo Specifications

- The gobo plates are made from material, it can be customized according to user needs.

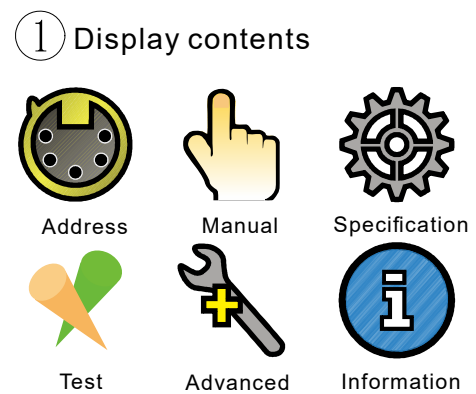
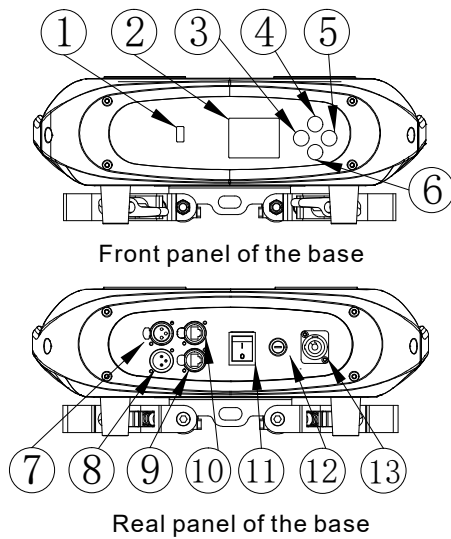
The size for customized gobo plates:

Material	Outer diameter	Effective Diameter	Thickness
Metal Gobo	∅22.8mm	∅ 18mm	0.5mm
Glass Gobo	∅22.5mm	∅ 20mm	3.5mm
Metal gobo plates adopt high temperature resistant glass for coating			

Fixture Size & Weight

- Fixture size: 417X417X763(mm)
- Flight case size:1034X659X821mm
- Net weight:34Kg
- Flight case netweight:45.8Kg
- IP Rate: IP20

Operation Panel Instruction



PIC4




As shown in pic4:

- | | | | |
|--------------------------------|----------------------|----------------------------|--------------------|
| 1.USB | 2.LCD screen | 3.Left Direction key(Back) | 4.Up Direction key |
| 5.Right Direction key(Confirm) | 6.Down Direction key | 7. DMX output | 8.DMX input |
| 9. Ethernet input | 10.Ethernet output | 11. Switch | 12.Fuse box |
| | | | 13.Power Supply |

Panel instruction

- 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.

Detailed Operation Table of Display panel

Specification 	1.Pan Inverse	Off,On	
	2.Tilt Inverse	Off,On	
	3.PT Encoder	Off,On	
	4.PT Speed	FAST,NORMAL,SLOW	
	5.Dim Curve	Curve_CV1,Line_CV2,S_CV3,SquareCV4	
	6.LED PWM	1.2KHz,6KHz,12KHz,24KHz,25KHz	
	7.Dim Speed	Speed1,Speed2,Speed3,Speed4	
	8.FAN mode	LOW,NORMAL,HIGH,AUTO	
	9.Display blackout	Off,On	
	10.display inverse	Off,On	
	11.KEY LOCK	Off,On	
	11.Language	English,Chinese	
	12.Sleep Mode	Off,On	
	13.Fixture	
	EXIT		
Manual 	1.Channel	1.Pan	000~255
		2.Tilt	000~255
		3.Strobe	000~255
		4.Dimmer	000~255
		5.Focus	000~255
		6.Zoom	000~255
		7.Cyan	000~255
		8.Magenta	000~255
		9.Yellow	000~255
		10.CTO	000~255
		11.Color wheel	000~255
		12.Gobo1 wheel	000~255
		13.R-Gobo1	000~255
		14.Gobo2 wheel	000~255
		15.R-Gobo2	000~255
		16.Iris	000~255
		17.FIX GOBO	000~255
		18.Prism2	000~255
		19.Prism1	000~255
		20.R-Prism	000~255
		21.Frost	000~255
		22.CONTROL	000~255
		23.FRAME LF1	000~255
		EXIT	
2.Fixture Reset	NO,YES		
EXIT			
Address 	1.DMX512 Address	001~512	
		EXIT	
	2.Channel Mode	Basic	
		Standard	
		Extend	
		EXIT	
	3.No DMX Mode	Dmx hold	
	Black out		
	EXIT		
EXIT			

Information 	1. Fixture Hour	Fixture Hour	XXXXXX
		LED Hour	XXXXXX
		EXIT	
	2. Version	PANEL Ver :	XXXX
		XY Ver:	XXXX
		DRV1 Ver:	XXXX
		DRV2 Ver:	XXXX
		DRV3 Ver:	XXXX
		DRV4 Ver:	XXXX
		EXIT	
	3. Tempareture	PANEL Tempareture :	XXX-XXX
		XY Tempareture:	XXX-XXX
		DRV1 Tempareture :	XXX-XXX
		DRV2 Tempareture :	XXX-XXX
		DRV3 Tempareture :	XXX-XXX
		DRV4 Tempareture :	XXX-XXX
		EXIT	
	4. Fan Speed	PANEL Fan :	XXXX-XXXX
		XY Fan:	XXXX-XXXX
		DRV1 Fan:	XXXX-XXXX
		DRV2 Fan:	XXXX-XXXX
		DRV3 Fan:	XXXX-XXXX
		DRV4 Fan:	XXXX-XXXX
		EXIT	
	5. RDM ID	XXXXXXXX	
	EXIT		
6. System Error	NONE		
	EXIT		
	EXIT		
Adcanced 	1. Factory Reset	NO	
		YES	
		EXIT	
	2. Fixture Time Reset	NO	
		YES	
		EXIT	
	3. LED Time Reset	NO	
		YES	
		EXIT	
	4. Calibration	
	EXIT		
	EXIT		
Test 	1. Auto test		
		NO	
		YES	
		EXIT	
	EXIT		

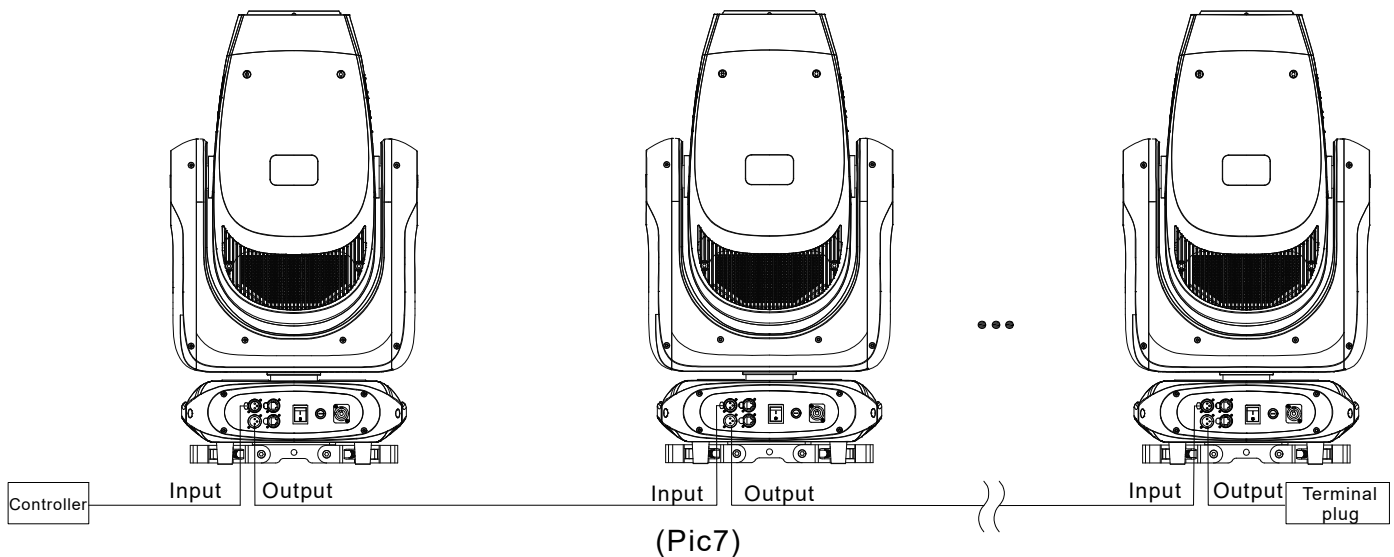
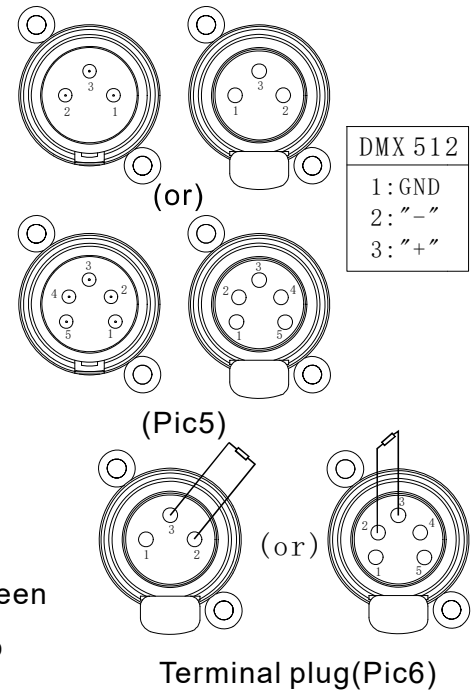
Signal connection

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. (Pic 7)



- 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.

Installation instruction& requirement

The user need to arrange regular safety inspection for the fixtures and parts that are connected to the fixture. Please have professionals to operate if operating conditions and professional instructions are insufficient. Incorrect installation by non-professionals may 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, like clamps, cables and other accessories.

G-clamp Installation

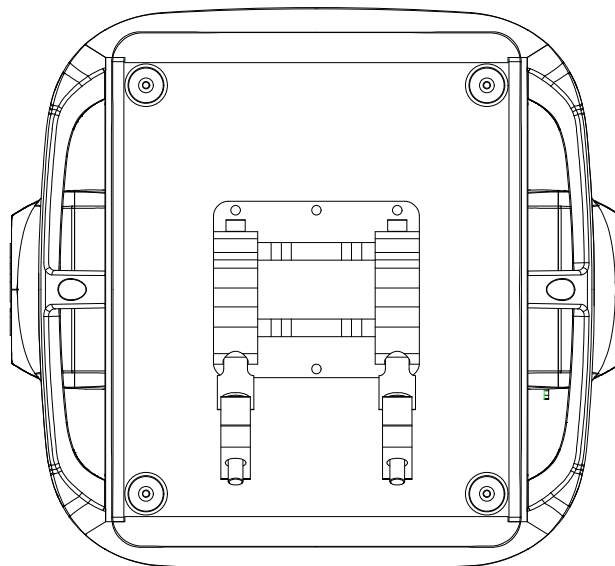
The fixture comes with the G-clamp(Pic8)

Fixture Installation

Fixture is installed on the stage or truss, and the G-clamp can be locked on the truss tightly and quickly. (Pic 9)

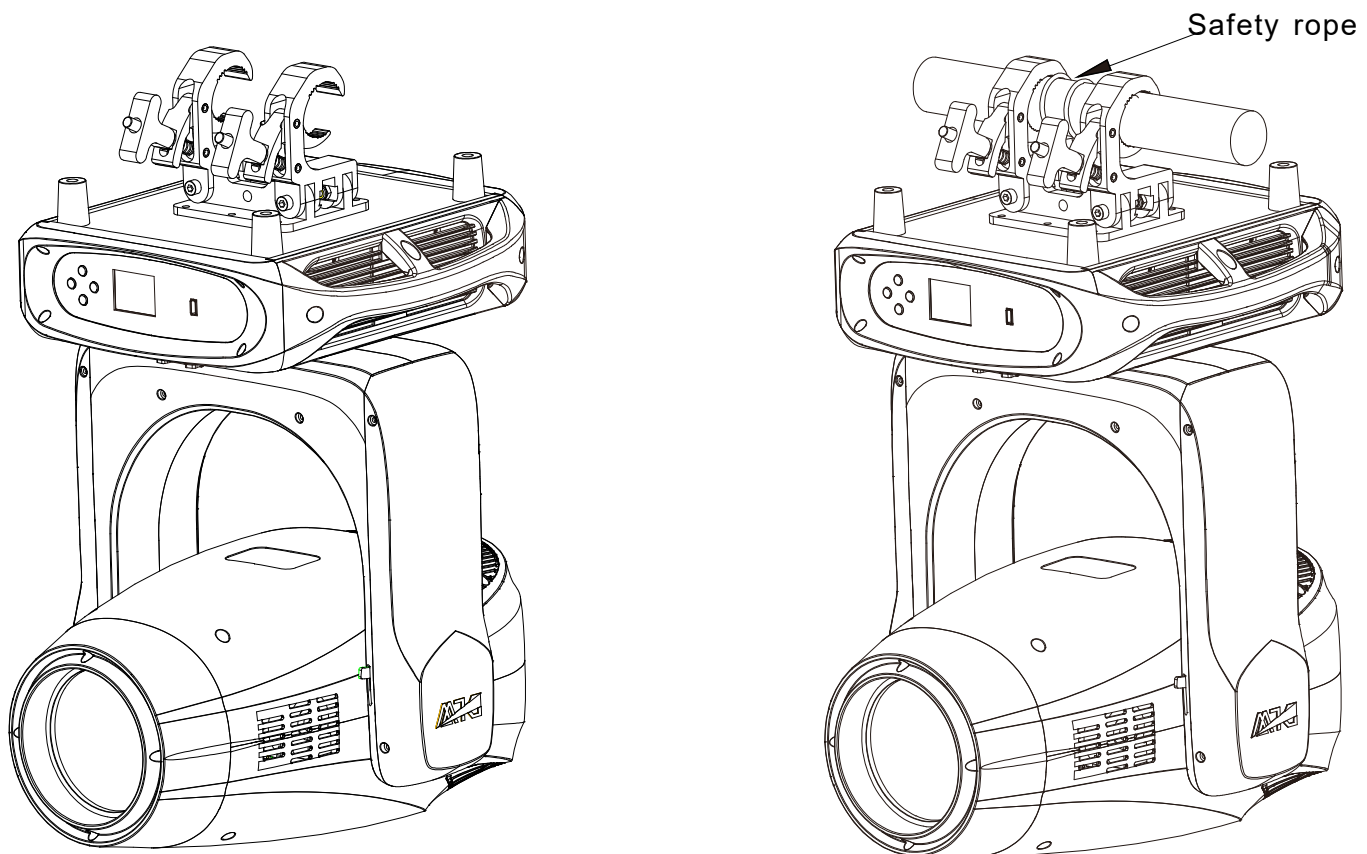
Notice:

- User must check if the G-clamp and safety chain are damaged or not.
- The fixture must be fixed by 2 G-clamps, clockwise turning them to fast-lock tightly, and adding a safety chain to connect the hole in the base, don't connect it to the handle.
- Please unlock the lock of pan/tilt before power on.
- Side hanging for lang time is not recommended.



Pan Angle

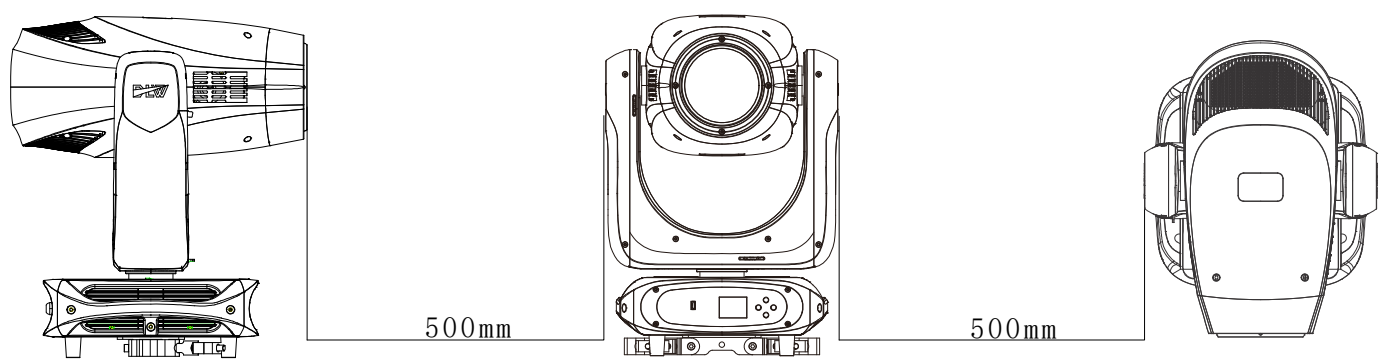
Pic8



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

DMX Channel Sheet (Brief)

Channel	25CH	29CH	42CH
1	Pan	Strobe	Pan
2	Pan Fine	Dimmer	Pan Fine
3	Tilt	Dimmer Fine	Tilt
4	Tilt Fine	Cyan	Tilt Fine
5	Strobe	Magenta	Strobe
6	Dimmer	Yellow	Dimmer
7	Dimmer Fine	CTO	Dimmer Fine
8	Focus	Color Wheel	Focus
9	Zoom	Gobo1	Focus Fine
10	Cyan	Gobo1 Rotate	Zoom
11	Magenta	Gobo1 Rotate Fine	Zoom Fine
12	Yellow	Gobo2	Cyan
13	CTO	Gobo2 Rotate	Cyan Fine
14	Color Wheel	Gobo2 Rotate Fine	Magenta
15	Gobo1	Fixed Gobo	Magenta Fine
16	Gobo1 Rotate	Prism1	Yellow
17	Gobo2	Frost	Yellow Fine
18	Gobo2 Rotate	Prism2	CTO
19	Iris	Prism Rotate	CTO Fine
20	Fixed Gobo	Iris	Color Wheel
21	Prism1	Zoom	Color Wheel Fine
22	Prism2	Zoom Fine	Gobo1
23	Prism Rotate	Focus	Gobo1 Rotate
24	Frost	Focus Fine	Gobo1 Rotate Fine
25	Fixture Control	Pan	Gobo2
26	-	Pan Fine	Gobo2 Rotate
27	-	Tilt	Gobo2 Rotate Fine
28	-	Tilt Fine	Iris
29	-	Fixture Control	Iris Fine
30	-	-	Fixed Gobo
31	-	-	Fixed Gobo Fine
32	-	-	Prism1
33	-	-	Prism1 Fine
34	-	-	Prism2
35	-	-	Prism Rotate
36	-	-	Frost
37	-	-	Frost Fine
38	-	-	Fixture Control
39	-	-	Pan/Tilt speed
40	-	-	Color speed
41	-	-	Focus/Zoom speed
42	-	-	Gobo speed

DMX Specific Channel Sheet

25CH	29CH	42CH	Features	DMX Value	Function
1	25	1	Pan	0-255	Movement(540°)
2	26	2	Pan Fine		
3	27	3	Tilt	0-255	Movement(270°)
4	28	4	Tilt Fine		
5	1	5	Strobe	0-19	Closed
				20-49	Open
				50-200	Strobe from slow to fast
				201-210	Open
				211-255	Random strobe from slow to fast
6	2	6	Dimmer	0-255	Closed->Open(0%->100%)
7	3	7	Dimmer Fine		
8	23	8	Focus	0-255	From far to near
-	24	9	Dimmer Fine		
9	21	10	Zoom	0-255	From large to small
-	22	11	Zoom Fine		
10	4	12	Cyan	0-255	Cyan 0%->100%
-	-	13	Cyan Fine		
11	5	14	Magenta	0-255	Magenta 0%->100%
-	-	15	Magenta Fine		
12	6	16	Yellow	0-255	Yellow 0%->100%
-	-	17	Yellow Fine		
13	7	18	CTO	0-255	CTO 0%->100%
-	-	19	CTO Fine	0-255	
14	8	20	Color Wheel		Linear Movement
				0-136	Color Linear Movement
				137-141	Open
					Full color mode
				142-146	Color 1
				147-151	Color 2
				152-156	Color 3
				157-161	Color 4
				162-166	Color 5
				167-171	Color 6
				172-176	Color 7
				177-191	Open
					Color Water flow effect
				192-220	Anti-clockwise rotation from fast to slow


				221-224	Stop
				225-255	Clockwise rotation from slow to fast
-	-	21	Color Wheel Fine		
15	9	22	Gobo1		Positioning mode
				0-10	Open
				11-17	Gobo 1
				18-24	Gobo 2
				25-31	Gobo 3
				32-38	Gobo 4
				39-45	Gobo 5
				46-52	Gobo 6
				53-59	Gobo 7
				60-66	Open
				67-73	Gobo 1 shake from slow to fast
				74-80	Gobo 2 shake from slow to fast
				81-87	Gobo 3 shake from slow to fast
				88-94	Gobo 4 shake from slow to fast
				95-101	Gobo 5 shake from slow to fast
				102-108	Gobo 6 shake from slow to fast
				109-115	Gobo 7 shake from slow to fast
				116-127	Open
					Rotate mode
				128-189	Anti-clockwise rotation from fast to slow
190-255	Clockwise rotation from slow to fast				
16	10	23	Gobo1 Rotate		Positioning mode
				0-127	Indexing(0-360Degree)
					Rotate mode
				128-189	Anti-clockwise rotation from fast to slow
				190-193	Stop
				194-255	Clockwise rotation from slow to fast
-	11	24	Gobo1 Rotate Fine	0-255	
					Positioning mode
				0-10	Open
				11-17	Gobo 1
				18-24	Gobo 2
				25-31	Gobo 3
				32-38	Gobo 4
				39-45	Gobo 5
				46-52	Gobo 6
53-59	Gobo 7				

17	12	25	Gobo2	60-66	Open
				67-73	Gobo 1 shake from slow to fast
				74-80	Gobo 2 shake from slow to fast
				81-87	Gobo 3 shake from slow to fast
				88-94	Gobo 4 shake from slow to fast
				95-101	Gobo 5 shake from slow to fast
				102-108	Gobo 6 shake from slow to fast
				109-115	Gobo 7 shake from slow to fast
				116-127	Open
					Rotate mode
				128-189	Anti-clockwise rotation from fast to slow
190-255	Clockwise rotation from slow to fast				
18	13	26	Gobo2 Rotate		Positioning mode
				0-127	Indexing(0-360Degree)
					Rotate mode
				128-189	Anti-clockwise rotation from fast to slow
				190-193	Stop
194-255	Clockwise rotation from slow to fast				
-	14	27	Gobo2 Rotate Fine	0-255	
19	20	28	Iris	0-255	Iris large to small
-	-	29	Iris Fine		
20	15	30	Fixed Gobo		Step mode
				0-3	Open
				4-8	Gobo 1
				9-13	Gobo 2
				14-18	Gobo 3
				19-23	Gobo 4
				24-28	Gobo 5
				29-33	Gobo 6
				34-38	Gobo 7
				39-43	Gobo 8
				44-58	Open
					Shake mode
				59-64	Gobo 1 shake from slow to fast
				65-70	Gobo 2 shake from slow to fast
				71-76	Gobo 3 shake from slow to fast
				77-82	Gobo 4 shake from slow to fast
				83-88	Gobo 5 shake from slow to fast
89-94	Gobo 6 shake from slow to fast				
95-100	Gobo 7 shake from slow to fast				

				101-106	Gobo 8 shake from slow to fast
				107-127	Open
					Gobo water flow effect
				128-189	Anti-clockwise rotation from fast to slow
				190-255	Clockwise rotation from slow to fast
-	-	31	Fixed Gobo Fine		
21	16	32	Prism1	0-10	Open
				11-255	Prism1 insert
-	-	33	Prism1 Fine		
22	18	34	Prism2	0-10	Open
				11-255	Prism2 insert
23	19	35	Prism Rotate		Positioning mode
				0-127	0~360°
					Rotate mode
				128-189	Clockwise rotation from slow to fast
				190-193	Stop rotate
				194-255	Anti-clockwise rotation from fast to slow
24	17	36	Frost	0-255	Frost 1 linear insert
	-	37	Frost Fine		
25	29	38	Fixture Control	0-9	Null
				10-14	Fixture reset
				15-29	Specification reset
				30-34	Pan-Tilt reset
				35-49	Reserved
				50-54	1.2KHz
				55-59	6 KHz
				60-64	12KHz
				65-69	24KHz
				70-255	Reserved
-	-	39	Pan/Tilt speed	0-255	Stepping time from fast to slow
-	-	40	Color speed	0-255	Stepping time from fast to slow
-	-	41	Focus/Zoom speed	0-255	Stepping time from fast to slow
-	-	42	Gobo speed	0-255	Stepping time from fast to 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.
- Check if power switch is on.
- Check if fuse is burned.

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.

channel failure:

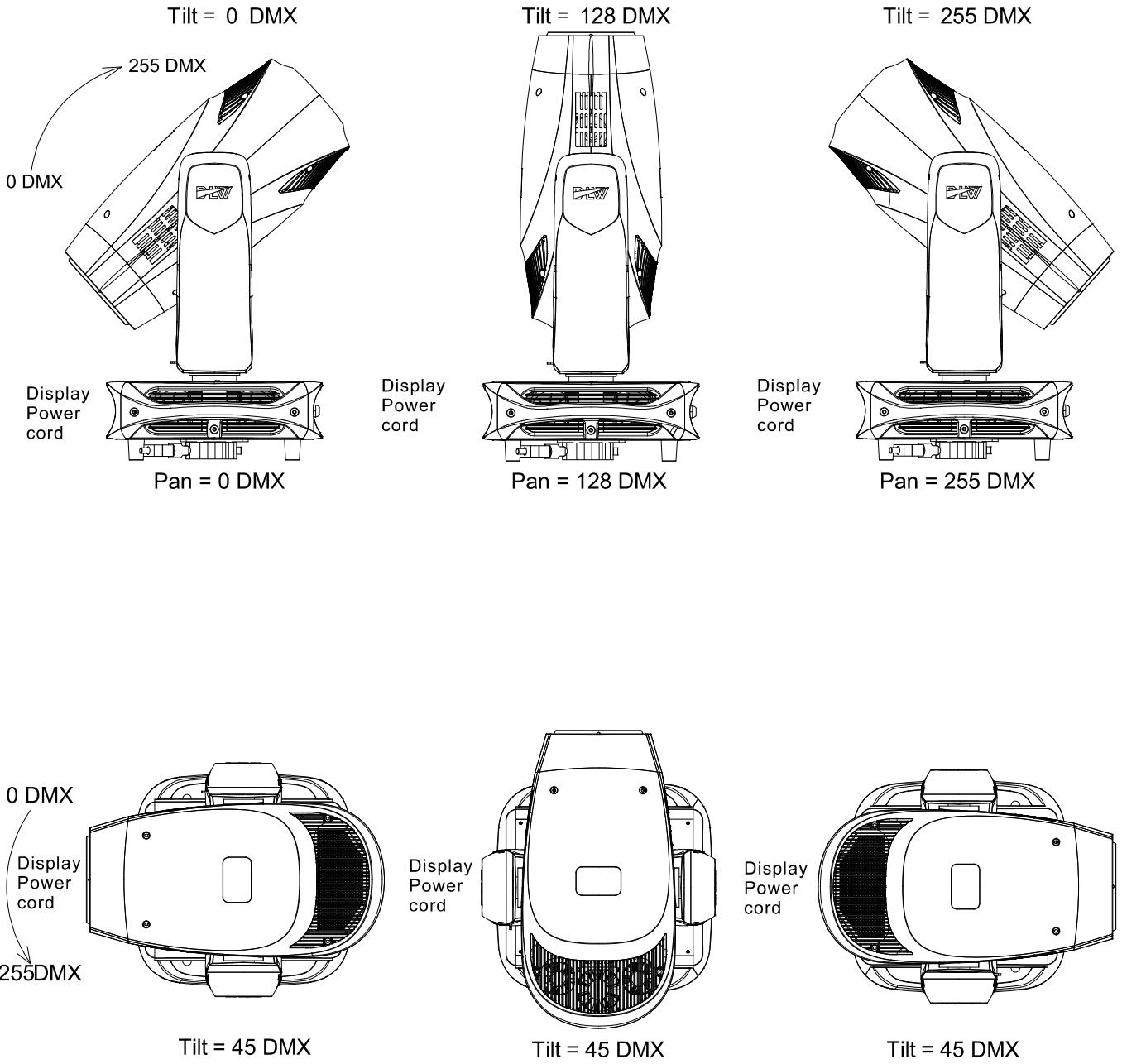
- Step motor or motor leading wire Maybe damaged.
- Drive circuit of motor may be damaged.

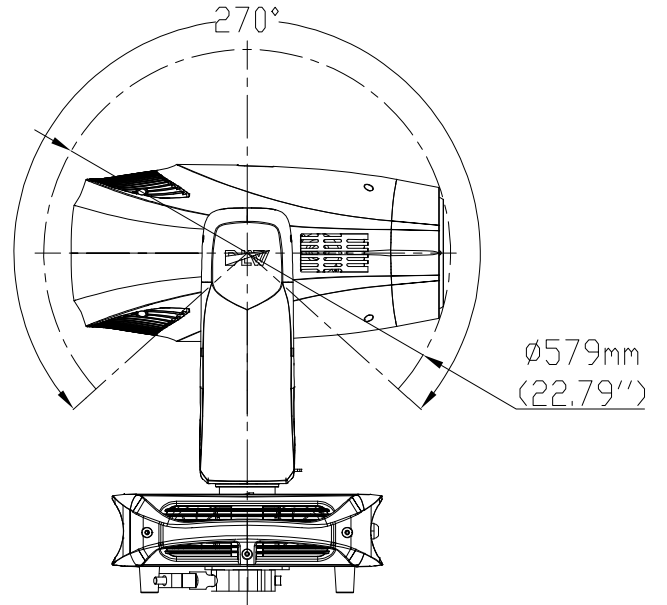
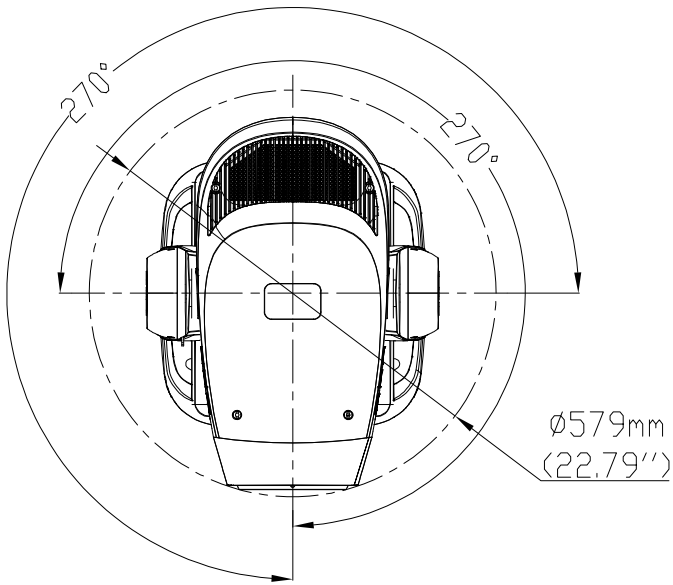
Lamp blinking:

- 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.

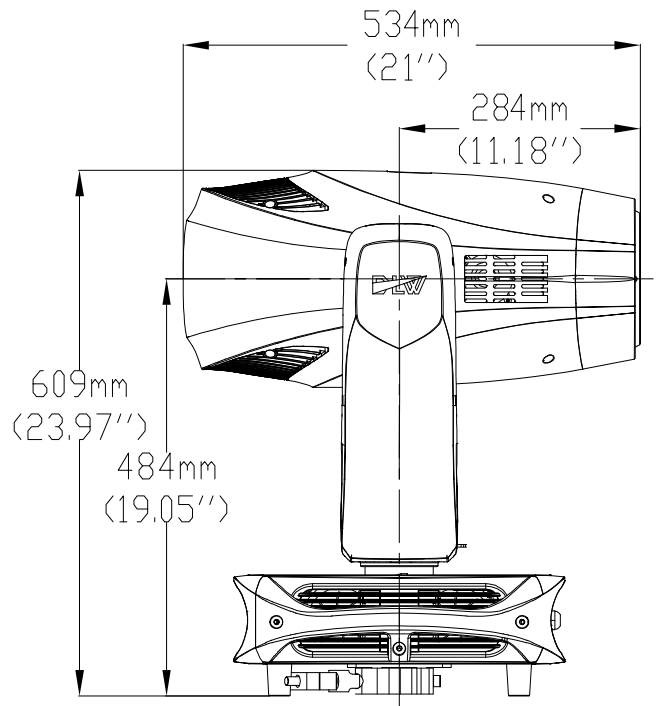
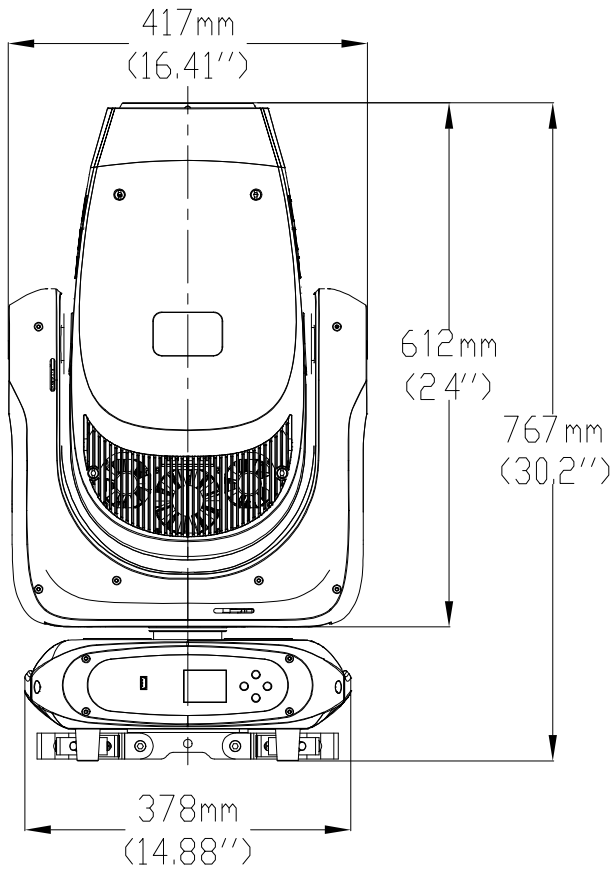
Attachment 1 Angle range and the measurement figure of the fixture

● Angle range of the fixture





● The measurement figure of the fixture





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