IP66 LED 1000W

Profile Moving Head Light

Item Number: LLIP1000PRO

USER MANUAL

This user manual includes important information for installation and operation. Please read this user manual carefully to install, operate, and maintain the lighting safety and correctly. A verified technician should do the installation and operation.

Please carefully check for any damages caused by transportation.

Before delivery, this device has passed strict quality control and inspection. Please follow the user manual for proper operation. If this fixture is damaged due to operation error or disregard of this manual, the fixture will be out of warranty, and the manufacture or dealer will not be held responsible.

Installation:

Maximum ambient temperature for operation is between 25°F and 104°F. Do not use under or above this range. Allow fixture to acclimate to room temperature before turning on or transporting. Turn off the power and allow 15 minutes for the unit to cool down before handling. Do not open the unit within five minutes after switching off.

Keep the fixture at least 1.5ft. away from any combustible material, as it is not suitable for direct installation on these surfaces. The unit must be installed in a location with adequate ventilation, at least 20 inches from adjacent surfaces. Ensure that no ventilation slots are blocked. Do not operate in dusty environments.

We advise that an electrician confirms the safety of the electrical data prior to installation. Power off the fixture before installation or maintenance. Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

Rigging:

Carefully hold the fixture upside down by its base, unfold the two integrated clamps at the bottom, and rotate one of the clamps to the desired direction. Hang the clamps onto the truss and tighten the screw.

Insert the quick-lock fasteners of the first holder into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise.

Pull the safety rope through the holes on the bottom of the base and fasten it on the truss or other fixing point. Ensure that the fixture is secure and will not drop due to clamp damage.

The truss used for hanging this fixture must be able to hold 10 times the weight of this fixture without deformation one hour after installation. Always use a safety cable that can hold 12 times the weight of the unit. Do not stand directly under the fixture while installing, uninstalling or adjusting the fixture.

Product Specifications:

Electrical Parameters:

IP Grade: IP66
AC 100 - 240V 50 / 60 Hz
Input Power: 1150W
Rated electrical current: 5.75 A,PF≥0.98

Light Source Parameters:

Light source: 1000W LED white source module.
LED module expected lifespan: 20000Hrs.

Optics Parameters:

Lens:High-definition lens with anti-reflective film.
Zoom range: 6°~52°

Effect Configuration:

2 prisms, one is 4-facet linear and one is 6-facet circle, can be independent and overlapping combined, can bebidirectional 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: 32Ch/35Ch/60Ch.
Control Protocols: DMX512, RDM, Art-Net, sACN, wireless function (optional).
Control Portals: XLR-3+ XLR-5; RJ45 (optional).
Menu display: 2.4" LCD screen; 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 magenetic encoder positionable system for pan/tilt.

Framing System:

4 x framing blades with precise positioning and no graphics distortion. The framed graph can rotate 360°.

Color System:

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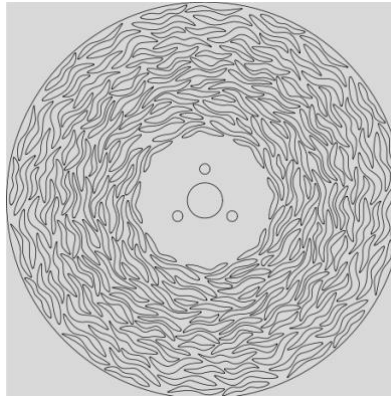CTO color temperature, 3200K – 6200K linear adjustment.
One static color wheel, 7color filters plus open, color wheel can rotate in both direction, effects of rainbow, stepping, gradual changing colors.

1.High CRI
2.Pink
3.Orange
4.Purple
5.Deep Blue
6.Green
7.Deep Red

Pic1
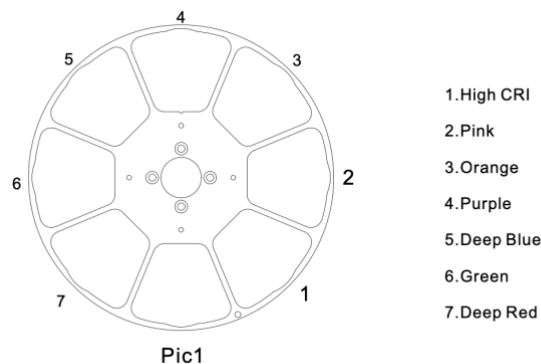
Gobo System:

Gobo animation wheel, cloud, fire, water flow.

1 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.
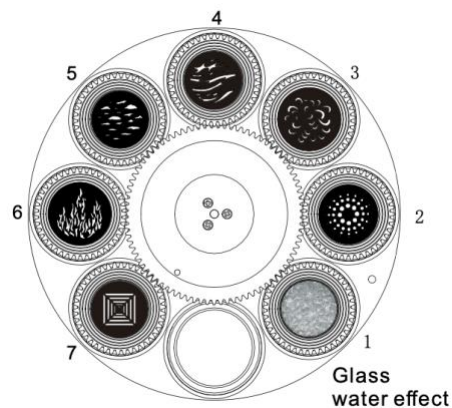
Gobo Specifications:

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
Gobo plates adopt high temperature glass(or high temperature metal)			

Fixture Size and Weight:

Fixture size: 17.48 x 14.17 x 30.08 in
Flight Case: 36.02 x 20.87 x 24.80 in
Net Weight：105.82 lbs.
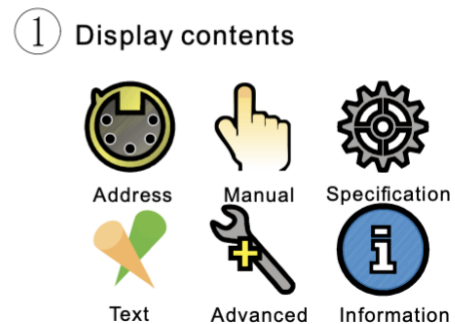Flight Case net weight 57.32 lbs.
IP Rate: IP66

Operational Panel Instruction:
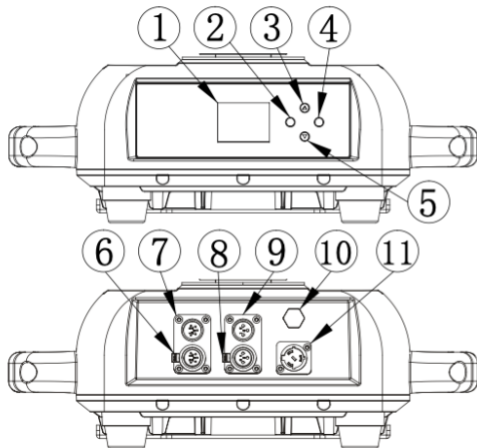
1.LCD display
2.Menu(Return)
3.Up
4.Enter 8.3-XLR DMX
Output

5.Down 9.3-XLR DMX Input
6.5-XLR DMX Output 7.5-
XLR DMX Input
7.5-XLR DMX Input
8.3-XLR DMX Output

9.Air valve 11.Power

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.

Detailed Operation Table of Display panel

	1.Pan Inverse	Off,On	
	2.Tilt Inverse	Off,On	
	3.PT Encoder	Off,On	
	4.PT Speed	FAST,NORMAL,SLOW	
Specification	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	Theater,Quiet,AUTO,HIGH	
	9.Display blackout	Off,On	

	10.display inverse	Off,On	
	11.Language	English,Chinese	
	12.Sleep Mode	Off,On	
	13.Fixture	....	
	EXIT		
	1.Channel	.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.Gobo wheel	000~255
		13.R-Gobo	000~255
		14.Iris	000~255
		15.Animation	000~255
		16.Animation rotation	000~255
		17.Prism1	000~255
		18.R-Prism1	000~255
		19.FRAME 1A	000~255
		20.FRAME 1B	000~255
		21.FRAME 2A	000~255
		22.FRAME 2B	000~255
		23.FRAME 3A	000~255
		24.FRAME 3B	000~255
		25.FRAME 4A	000~255
		26.FRAME 4B	000~255
		27.FRAME ROT	000~255
		28.Frost	000~255
		29.CONTROL	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		
Advanced	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"+"

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.
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 8) The method of connection as show bellow.
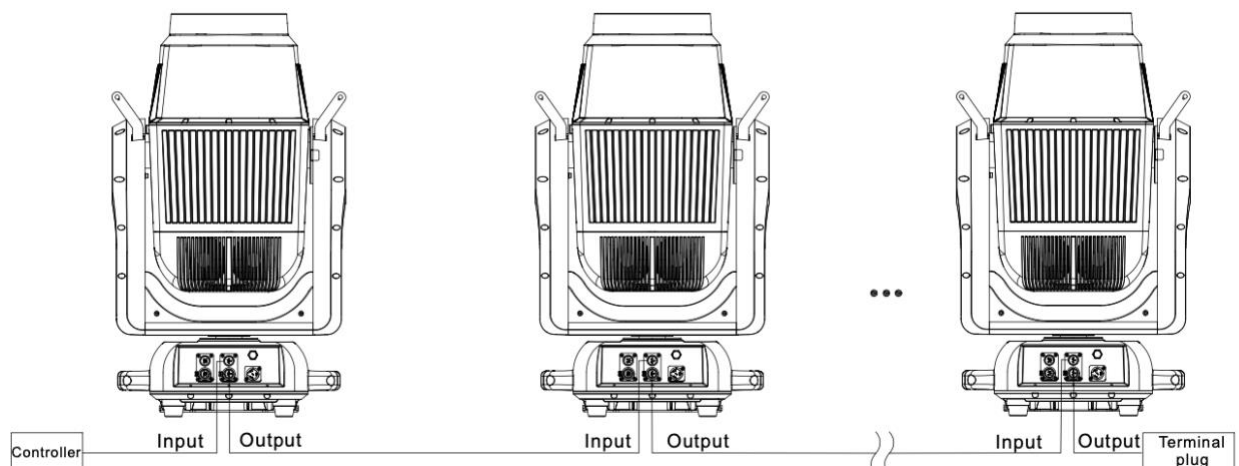
Notice:

Don't use multi- output connecter 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 date 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.

L(Live line)Brown wire
N(Null line)Blue wire
E(Earth line)Yellow and green wire

Installation Instruction and Requirment:

The user need to arrange regular safety inspection for the fixtures and parts that areconnected 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:

Install the G-clamp onto the base of the fixture, plug the G-clamp into the installation hole of the fixture's base. Rotate the quick lock plate into the slot tightly.Use the same installation method for the second G-clamp

Fixture Installation:

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

Notice:

User must check if the G-clamp and safety chain are damaged or not.
When hanging a fixture, the safety rope must pass through the handle.
Please unlock the lock of pan/tilt before power on.
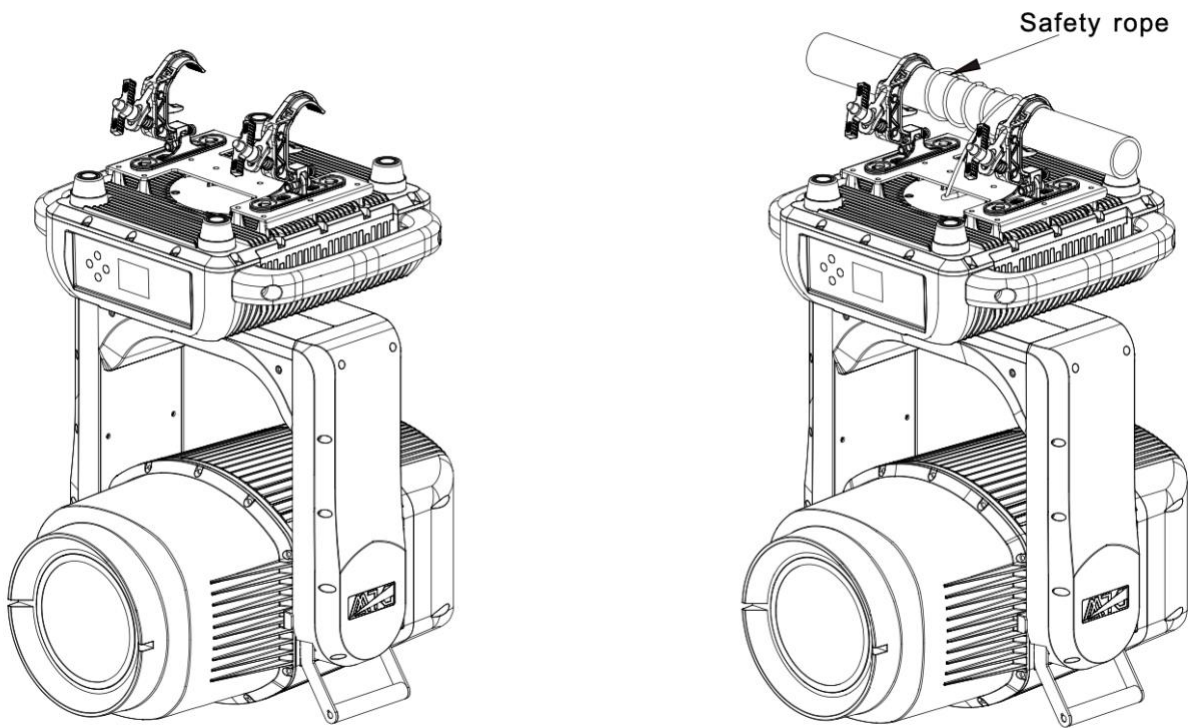
Fixture Placement:

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 ≥0.6 m when they are working.Fixtures installation show as follow
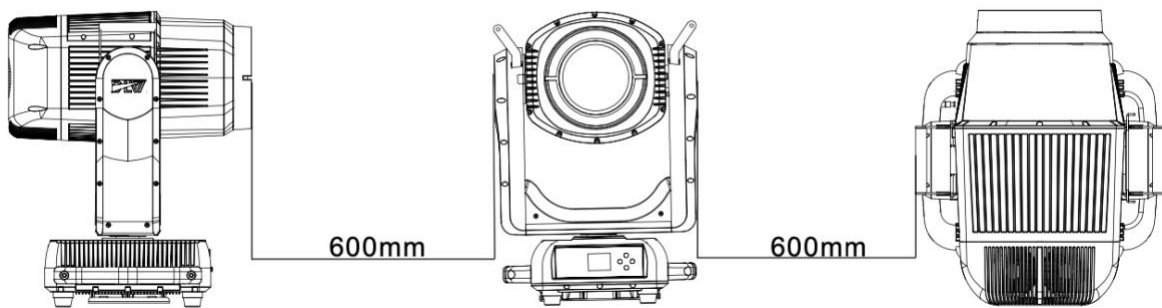
DMX Channel Sheet

Channel	32CH	35CH	60CH
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	Gobo 1 Rotate	Zoom
11	Magenta	Gobo 1 Rotate Fine	Zoom Fine
12	Yellow	Animation	Cyan
13	CTO	Animation Rotate	Cyan Fine
14	Color Wheel	Framing Blade 1A	Magenta
15	Gobo1	Framing Blade 1B	Magenta Fine
16	Gobo 1 Rotate	Framing Blade 2A	Yellow
17	Iris	Framing Blade 2B	Yellow Fine
18	Animation	Framing Blade 3A	CTO
19	Animation Rotate	Framing Blade 3B	CTO Fine
20	Framing Blade 1A	Framing Blade 4A	Color Wheel
21	Framing Blade 1B	Framing Blade 4B	Color Wheel Fine
22	Framing Blade 2A	Framing Blade Roate	Gobo1
23	Framing Blade 2B	Frost	Gobo 1 Rotate
24	Framing Blade 3A	Prism	Gobo 1 Rotate Fine
25	Framing Blade 3B	Prism Rotate	Iris
26	Framing Blade 4A	Iris	Iris Fine
27	Framing Blade 4B	Zoom	Animation
28	Framing Blade Roate	Zoom Fine	Animation Fine
29	Prism	Focus	Animation Rotate
30	Prism Rotate	Focus Fine	Animation Rotate Fine
31	Frost	Pan	Framing Blade 1A
32	Fixture control	Pan Fine	Framing Blade 1A Fine
33		Tilt	Framing Blade 1B
34		Tilt Fine	Framing Blade 1B Fine
35		Fixture control	Framing Blade 2A
36			Framing Blade 2A Fine
37			Framing Blade 2B
38			Framing Blade 2B Fine
39			Framing Blade 3A
40			Framing Blade 3A Fine
41			Framing Blade 3B
42			Framing Blade 3B Fine
43			Framing Blade 4A
44			Framing Blade 4A Fine
45			Framing Blade 4B
46			Framing Blade 4B Fine
47			Framing Blade Roate
48			Framing Blade Roate Fine
49			Prism 2
50			Prism Rotate
51			Frost
52			Fixture control
53			Pan/Tilt speed
54			Color speed
55			Focus/zoom speed
56			Gobo speed
57			Reserved
58			Reserved
59			Reserved

60					Reserved

DMX Specific Channel Sheet

32CH	35CH	60CH	Specifications	DMX Value	Function
1	31	1	Pan	0-255	0°->540°
2	32	2	Pan Fine		
3	33	3	Tilt	0-255	0°->270°
4	34	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	29	8	Focus	0-255	From far to near
-	30	9	Focus Fine		
9	27	10	Zoom	0-255	From large to small
-	28	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		
			Color Wheel		
				0-119	Color Linear Movenent
				120-120	Open
					Full color mode
				121-125	Color 1
				126-130	Color 2
				131-135	Color 3
				136-140	Color 4
				141-145	Color 5
				146-150	Color 6
				151-155	Color 7
				156-160	Open
					Color water flow effect
				161-200	Clockwise rotation from fast to slow
				201-203	Stop
				204-243	Anti-clockwise rotation from slow to fast
					Color Water flow effect
				244-247	Fast
				248-251	Medium
				252-255	Slow
-	-	21	Color Wheel Fine		
					Positioning Mode
				0-10	Open
				11-17	Gobo 1
				18-24	Gobo 2

				Value	Description
				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	Gobo 1 Rotate		Positioning Mode
				0-127	Indexing (0-360 Degree)
					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	
17	26	25	Iris	0-255	Iris large to small
-	-	26	Iris Fine		
18	12	27	Animation	0-255	Animation insert
-	-	28	Animation Fine		
19			Animation Rotate		Positioning mode
				0-124	Anti-clockwise rotation from fast to slow
				125-130	Stop
				131-255	Clockwise rotation from slow to fast
-	-	30	Animation Rotate Fine		
20	14	31	Framing Blade 1A	0-255	Framing blade rotate from outside->inside
-	-	32	Framing Blade 1A Fine		
21	15	33	Framing Blade 1B	0-255	Framing blade rotate from outside->inside
-	-	34	Framing Blade 1B Fine		
22	16	35	Framing Blade 2A	0-255	Framing blade rotate from outside->inside
-	-	36	Framing Blade 2A Fine		
23	17	37	Framing Blade 2B	0-255	Framing blade rotate from outside->inside
-	-	38	Framing Blade 2B Fine		
24	18	39	Framing Blade 3A	0-255	Framing blade rotate from outside->inside
-	-	40	Framing Blade 3A Fine		

25	19	41	Framing Blade 3B	0-255	Framing blade rotate from outside->inside
-	-	42	Framing Blade 3B Fine		
26	20	43	Framing Blade 4A	0-255	Framing blade rotate from outside->inside
-	-	44	Framing Blade 4A Fine		
27	21	45	Framing Blade 4B	0-255	Framing blade rotate from outside->inside
-	-	46	Framing Blade 4B Fine		
28	22	47	Framing Blade Roate	0-160	Framing rotate from 0->360°
				161-202	Framing Anti-clockwise rotation from fast to slow
				203-243	Framing clockwise rotation slow to fast
				244-255	Null
-	-	48	Framing Blade Roate Fine		
29	24	49	Prism	0-31	Open
				31-95	Prism1
				96-191	Prism2
				192-255	Prism1&2
30	25	50	Prism Rotate		
				0-127	0-360°
					Rotate Mode
				128-189	Clockwise rotation fast back from fast to slow
				190-193	Stop Rotate
				194-255	Anti-Clockwise rotation fast back from slow to fast
31	23	51	Frost	0-31	Open
				32-95	Frost 1
				96-191	Frost 2
				192-255	Frost 1 & 2
32	35	52	Fixture Control	0-9	Null
				10-14	Fixture Reset
				15-29	Specificatin reset
				30-34	Pan-tilt reset
				35-49	Reserved
				50-54	1.2 KHz
				55-59	6 KHz
				60-64	12 KHz
				65-69	24 KHz
				70-255	Reserved
-	-	53	Pan/Tilt Speed	0-255	Stepping time from fast to slow
-	-	54	Color Speed	0-255	Stepping time from fast to slow
-	-	55	Focus/Zoom Speed	0-255	Stepping time from fast to slow
-	-	56	Gobo Speed	0-255	Stepping time from fast to slow
		57	Reserved		
		58	Reserved		
		59	Reserved		
		60	Reserved		

Symbol Instruction on Fixture:

CE certificate

RoHS certificate