IP65 420W 21R Beam

Moving Head Light

Item Number: LLIP21R

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:

This unit is for indoor use only. Use only in a dry location. To prevent or reduce the risk of electrical shock or fire, do not expose to rain or moisture.

Maximum ambient temperature for operation is between 20°F and 113°F. Do not use under or above this range. 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.

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:

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 specification

Voltage: 100-240V，50/60HZ

Power Consumption: 520W

Lamp: Japanese Ushio 420W

Fuse: 8A/250V，￠5*20

DMX Channel: 16CH

Operation mode: master-slave/DMX/Auto

Focus: Yes

Fixed gobo: 17 gobos+open

Strobe: 25Hz

Color: 14 colors+open

Prism 1: 8-facet

Prism 2: 16-facet

Pan: 540°

Tilt: 270°

Frost / Six-color effect: Yes

RDM: Yes

Display Operation:

DMX	DMX signal indicator
AUDIO	Sound control indicator
Up	Menu up selection
Down	Menu down selection
Left	Menu left to select/return
Right	Menu right to select
ENTER	Confirm button
Time on the left	Total system usage time
Time on the right	Total time of this power-on
Vertical signal at the top	Current DMX signal strength Red: No signal / White: Current signal strength
Square icon in the upper right corner	Green: OK, no errors
	Red: There is an error (click the icon or "Information Menu/Error Information/View" to view the error

Display Menu:

Option		Function
Run	DMX	Slave light: Receives DMX signal from console or master light
	scene	master light status: run auto and send signal to slave light
	auto	
	sound	
Scene setting		can set 20 scenes manually
DMX address	1 - 512	Press the "OK" button to enter editing mode. At this point, select the hundred digits and press the "Up" and "Down" keys to change the address code. Press the "OK" button again to select the ten editors. Press the "OK" button again to select a bit for editing. Press again to exit editing status
Lamp	off	lamp off
	on	lamp on
Motor reset	off	
	on	reset light
Channel	16CH	16 DMX channel
	20CH	20 DMX channels
Language	English	set display in English
	Chinese	set display in Chinese
Display reverse	off	display reverse off
	on	display reverse on

X reverse	off	
	on	X motor rotate 180 degrees
Y reverse	off	
	on	Y motor rotate 180 degrees
XY exchange	off	
	on	Exchange channels for the XY axis (including fine-tuning)
XY encoder	on	Use encoder (optocoupler) to detect out of step and automatically correct position
	off	Don't use encoder to detect to correct position
DMX signal	keep	Continue running in the original state
	clean	Motor return and stop running
Lamp on when light urns on	off	
	on	Lamp on when light turns on
Color linearity	on	Color wheel linear change
	off	Color wheel non-linear change, half color change
Clear scene data		Clear scenario data
Factory default	on	
	off	After pressing the "OK" button, you will see a confirmation dialog box. Press the "OK" button again to restore the default settings

Scene Setting Description:

Option		Function
Scene	1-20	Programming can be done by selecting scenes 1 to 20
Scene time	0-255	Set the running time for the current scenario to a maximum of 255 seconds
Run scene	on	The default is on, and it will be executed when running automatically. If set to off, it will skip the current scene and run the next scene.
	off	
Scene	0-255	
Scene time	0-255	Set DMX value 0-255
Run scene	0-255	
...	0-255	

Manual Control:

Option		Function
1ch	0 - 255	Press the "OK" button to enter editing mode. At this point, select the hundreds and press the "Up" and "Down" keys to change the channel value. Press the "OK" button again to select the ten editors. Press the "OK" button again to select a bit for editing. Press again to exit editing status.
……	0 - 255	
15ch	0 - 255	
16ch	0 - 255	Lamp and reset

Product Information:

Option		Function
Ver		software version
DIS		display software version
FAN		fan software version
MT		motor software version
Temperature		30
Time	1.total lamp on time	Record the total lamp-on time
	2.total light work time	Record the total use time of the light
Fan board monitoring		Fan board monitoring
System mistake		If the red ERR indicator light is on, it indicates that the light is running incorrectly. Detailed information can be viewed from this sub interface. After viewing, you can press the "Clear" button to clear the error records
Hall state	11100010	When magnetic is detected, it is 0; otherwise, it is 1
X encoder step value		When run in the positive direction, the step value should increase, and when run in the opposite direction, the step value should decrease. The value remains normal every time you go to the same point

Y encoder step value		When ran in the positive direction, the step value should increase, and when it runs in the opposite direction, the step value should decrease. The value remains normal every time it goes to the same point.
Permission duration		9999 without encryption. Other numerical values can be used with encrypted time.

Error Description:

Common Error Messages		Description
Motor board connection error		If the motor board does not respond there is a problem with the serial communication line connecting the display board and the motor board, or there is a problem with the motor board.
X axis reset error		There is a problem with the X-axis photoelectric switch, X-axis motor, or motor board
Y axis reset error		There is a problem with the Y-axis photoelectric switch, Y-axis motor, or motor board
X axis hall error		X-axis Hall or motor board issues
Y axis hall error		Y-axis Hall or motor board issues
color wheel reset error		Color wheel Hall or color wheel motor problem
gobo wheel reset error		Gobo wheel Hall or gobo wheel motor problem
focus reset error		Problem with focusing Hall or focusing motor
lamp control error		Failure to light up or extinguish bubbles, indicates a problem with the bulb or bulb ballast.
correction	download data	After replacing the display board, download the calibration data of the original display board from the motor board.
	X axis	After entering the sub interface, the reset positions of the X-axis, Y-axis, and other motors can be adjusted to compensate for hardware installation errors. The adjustment range is -128 to+127, with+0 indicating no adjustment.
	Y axis	
	color	
	gobo	
	focos	
	dimmer	
	Prism 1 zero point	
	Prism 1 stroke	
	Prism 2 zero point	
	Prism 2 stroke	

frost zero point			
frost stroke			
Zeroing	off		
	On, Data recovery defaults		
X hall	off，X hall error reporting off		
	on，X hall error reporting on		
Y hall	off，Y hall error reporting off		
	on，Y hall error reporting on		
half power	off，no half power		
	on，have half power		

DMX Channel:

20CH	16CH	Function	Value	Details
1	1	Color wheel	000-004	White
			005 -009	White+Color 1
			010 - 014	Color 1
			015 - 019	Color 1+color 2
			020 - 024	Color 2
			025 - 029	Color 2+color 3
			030 - 034	Color 3
			035 - 039	Color 3+color 4
			040 - 044	Color 4
			045 - 049	Color 4+color 5
			050 - 054	Color 5
			055 - 059	Color 5+color 6
			060 - 064	Color 6
			065 - 069	Color 6+color 7
			070 - 074	Color 7
			075 - 079	Color 7+color 8
			080 - 084	Color 8
			085 - 089	Color 8+color 9
			090 - 094	Color 9
			095 - 099	Color 9+color 10
			100 -104	Color 10
			105 -109	Color 10+color 11
			110 -114	Color 11
			115 -119	Color 11+color 12
			120 -124	Color 12

				125-129	Color 12+color 13
				130 -134	Color 13
				135 -139	Color 13+color 14
				140- 144	Color 14
				145- 149	Color 14+White
				150- 200	Forward flow (from fast to slow)
				201- 255	Reverse flow(from slow to fast)
2	2		Strobe	000-003	Shutter closed
				004-103	Strobe from slow to fast
				104-107	Open the shutter →(controlled by the dimming channel)
				108-207	Pulse strobe from slow to fast
				208-212	Open →(controlled by the dimming channel)
				213-251	Random strobe from slow to fast
				252-255	Open → (controlled by the dimming channel)
3	3		Dimmer	000-255	dimmer from dark to bright
4	4		Gobo wheel	000 - 004	White
				005 - 009	gobo 1
				010 - 014	gobo 2
				015 - 019	gobo 3
				020 - 024	gobo 4
				025 - 029	gobo 5
				030 - 034	gobo 6
				035 - 039	gobo 7
				040 - 044	gobo 8
				045 - 049	gobo 9
				050 - 054	gobo 10
				055 - 059	gobo 11
				060 - 064	gobo 12
				065 - 069	gobo 13
				070 - 074	gobo 14
				075 - 079	gobo 15
				080 - 084	gobo 16
				085 - 089	gobo 17
				090 - 094	gobo 1 shake slow to fast
				095 - 099	gobo 2 shake slow to fast
				100 - 104	gobo 3 shake slow to fast
				105 - 109	gobo 4 shake slow to fast
				110 - 114	gobo 5 shake slow to fast
				115 - 119	gobo 6 shake slow to fast
				120 - 124	gobo 7 shake slow to fast

				125 - 129	gobo 8 shake slow to fast
				130 - 134	gobo 9 shake slow to fast
				135 - 139	gobo 10 shake slow to fast
				140 - 144	gobo 11 shake slow to fast
				145 - 149	gobo 12 shake slow to fast
				150 - 154	gobo 13 shake slow to fast
				155 - 159	gobo 14 shake slow to fast
				160 - 164	gobo 15 shake slow to fast
				165 - 169	gobo 16 shake slow to fast
				170 - 174	gobo 17 shake slow to fast
				175- 200	Forward flow (from slow to fast)
				250 - 255	Reverse flow (from fast to slow)
5	5	Prism1		000-127	no prism
				128-255	prism 1
6	6	Prism1 rotation		000-127	Prism1 angle adjustment
				128-190	Reverse rotation (fast to slow)
				191-192	Stop
				193-255	Forward rotation (slow to fast)
7	7	Prism 2		000-31	no prism
				32-255	prism 2
8	8	Prism2 rotation		000-127	prism2 angle adjustment
				128-190	Reverse rotation (fast to slow)
				191-192	Stop
				193-255	Forward rotation (slow to fast)
9	9	Focus		000-255	Pattern clarity from near to far
10	10	pan		000-255	0-540 degree
11	11	pan fine		000-255	0-1.2 degree
12	12	tilt		000-255	0-270 degree
13	13	tilt fine		000-255	0-1.2 degree
14	14	XY speed		000-255	speed fast to slow
15	15	Frost & 6-color effect		000-127	no function
				128-191	6-color effect
				192-255	Frost
16	16	Lamp control and reset		000-025	no function
				026-050	small motors reset
				061-085	XY motors reset
				100-109	Lamp off
				200-209	Lamp on
				251-255	all motors reset
17		keep		0-255	Speed from slow to fast
18		color wheel speed		0-255	speed fast to slow

19		dimmer-prism-frost speed	0-255	
20		gobo wheel speed	0-255	

Symbol Instruction on Fixture:

CE certificate

RoHS certificate