

DLW

Product Manual

DLW L1100C4LC IP

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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.

Warning!	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!
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. The fixture is out of warranty if problems are caused by any incorrect use or negligence of the user manual.
- The protection level rate is IP66.
- 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 6 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.
- 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 packing the fixture.
- Please place the fixture in the plastic bag, and then carefully put it into the flight case vertically, the parts are placed at special area in flight case, then close the lid and lock the flight case. Please don't put it upside down.

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.

Attention: Please check the complete package after received the fixture. Please check whether the fixture is damaged or not during the shipping after opened the packing.

If the fixture is damaged during shipping, please don't use it and contact the manufacturer /local technicians as soon as possible.

Accessories with fixture

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

Product Technical Specifications

Electrical parameters

AC 100 - 240V 50 / 60 Hz

Input Power:1100W rated electrical current:11A,PF≥0.98

Light Source parameters

- Light source: 10(heads) x 60W LED (RGBW 4in1)
Auxiliary Light 1:360 x 1W LED 6500K
Auxiliary Light 2:360 x 1W LED 1800K
- Expected Lifespan: 20,000 hours.

Optics parameters

- Beam Angle: Main Light: 4.5°-36°, Auxiliary Light: 120°.

Effect configuration

- LED: Single-point single-color control, RGBW or CMY color mixing, 33 preset macro functions.
- Main Light Color Temperature: 2700K-8000K linearly variable.
- Dimming: 0-100% linear dimming.
- Strobe: 1-25Hz, multiple strobe effects available, adjustable speed.
- Auxiliary Light: Dual color temperature.
- Adjustable PWM frequency: 600Hz, 1200Hz, 2000Hz, 4000Hz, 6000Hz, 15000Hz.

Fixture movement

- Vertical scanning: 90°, 180°, 200° (beam angle selectable).

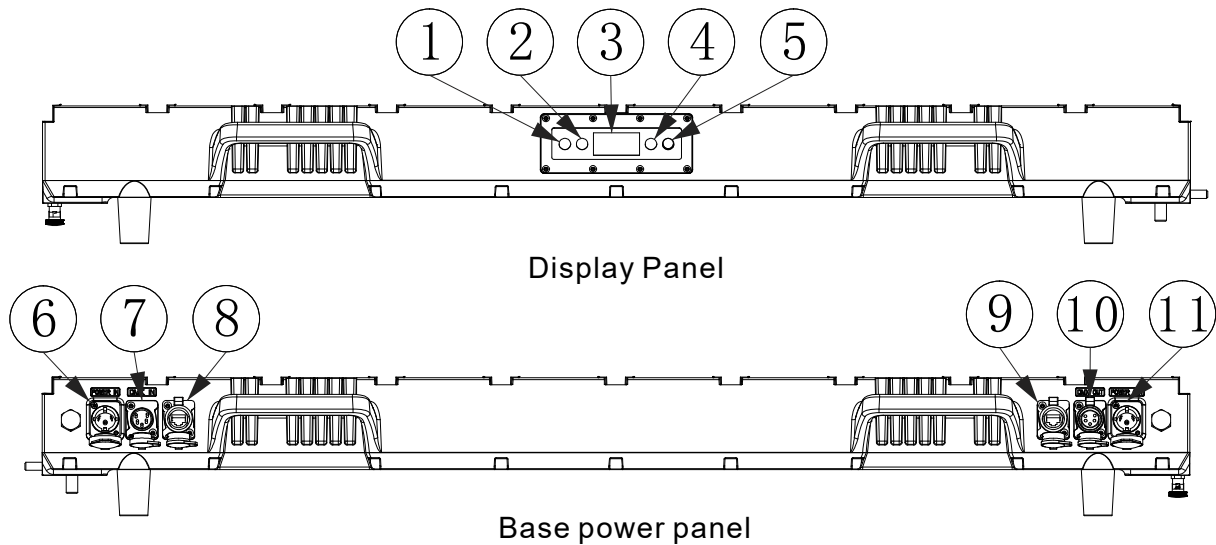
Electronic Control

- Channel modes (single control mode): 29/56/216/262/282/142/247CH.
- Channel mode (D&R) function section: 10/37/56/62CH.
- Channel mode (D&R) effect section: 150/160/200CH.
- Control protocols: DMX512, RDM, Art-Net, sACN.
- Menu display: 1.54-inch OLED monochrome LCD, English, font can be reversed 180°.
- Electronic sensor detection, intelligent fan detection and control.
- Vertical movement: Non-contact magnetic rotary encoder positioning.

Fixture Size& Weight:

- Fixture size:1000X198X338mm
- Net weight:20.5Kg
- Minimum and maximum ambient temperature:-20℃ ~40℃
- IP Grade:IP66

Operation Panel Instruction



As shown in pic 5:

Pic1

- | | | | |
|----------------|---------------|-------------------|----------------------|
| 1.Menu(Return) | 4.Down | 7.5-XLR DMX Input | 10. 5-XLR DMX Output |
| 2.Up | 5.Enter | 8.Ethernet Input | 11.Power Output |
| 3.LCD display | 6.Power Input | 9.Ethernet Output | |

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 reselect cyclical data window.
- Unlock code for black screen:Constant press the menu button, and a 5-second countdown will appear on the screen.

Detailed Operation Table of Display panel

Main			Main		
Protocol	DMX		Display Invert	Yes	
	ArtNet			Auto	
	sACN			NO	
DMX Address	000-XXX		Backlight	10s	
DMX Channel	XXH			20s	
				2min	
	XXXH			Always on	
static	Manual Color	Tilt	Key lock	On	
		Tilt Fine		Off	
			Ethernet Setting	Universs	xxx.xxx.xxx. xxx
				IP Address	xxx.xxx.xxx. xxx
		WY W		Subnet Mask	xxx.xxx.xxx. xxx
motor Calibration	Auto Test		LED ID SET	OFF	
	Tilt-1			1	
	Focus-1				
				10	
			Information	Fix Hours: xxxH	
	Tilt-10			LED Hours: xxxH	
Tilt Invert	NO			Disp ver: xxx	
	Yes			A ver: xxx	
Pixel Invert	NO			B ver: xxx	
	Yes			C ver: xxx	
Master/Slave	Master		Update Firmware	UID:XXXXXXXXX	
	slave			Only this Unit	Yes No
Dimmer mode	OFF			Multiple Units	Yes No
	DIM1				
	DIM2			Other Fixture	Yes No
	DIM3				
White balance	Red		Fractory Reset	Yes	
	Green			No	
	Blue				
	white				
Scene mode	Auto				
	Full				
	Theatre				
	Silence				

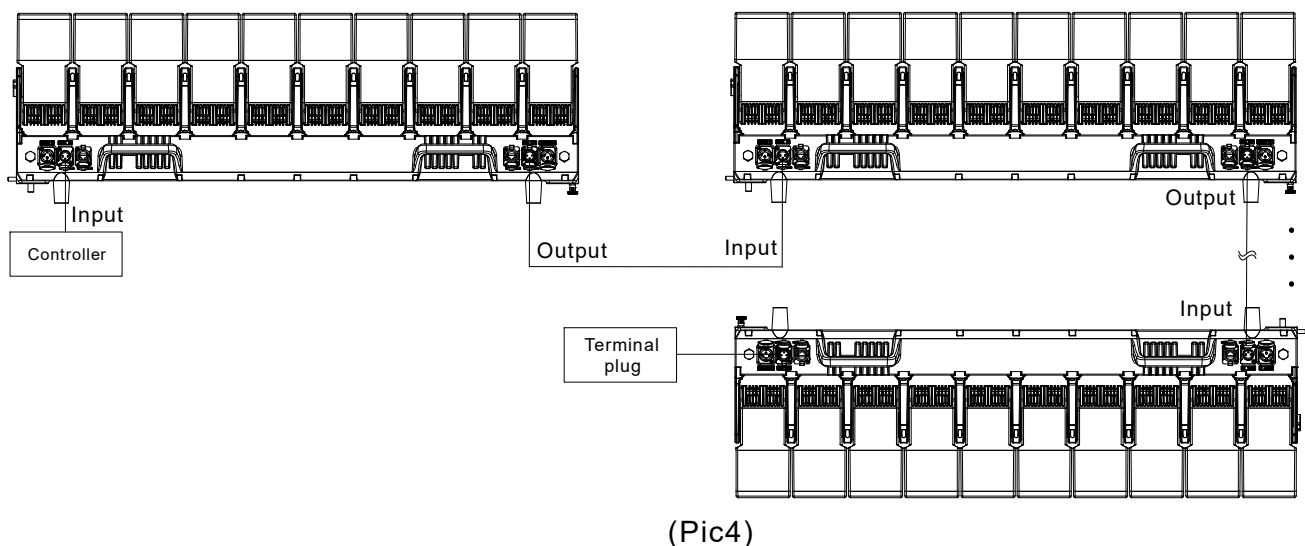
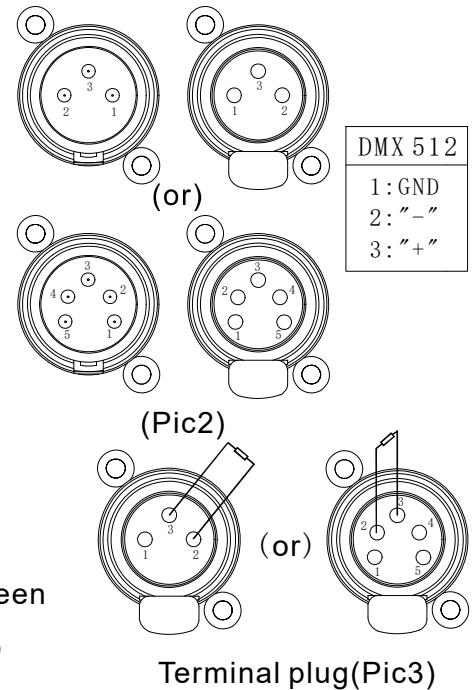
Signal connection

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, 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. (Pic3)

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 3) The method of connection as show bellow. (Pic 4)



- 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

	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 2 units(2.5mm²).
- AC110V: Lighting fixture connection not surpass 1 units(12AWG).

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 6 times weight of the fixture. Check if the truss or pipe construction can bear at least 6 times total weight of all equipment,like clamps,cables and other accessories.

G-clamp Installation

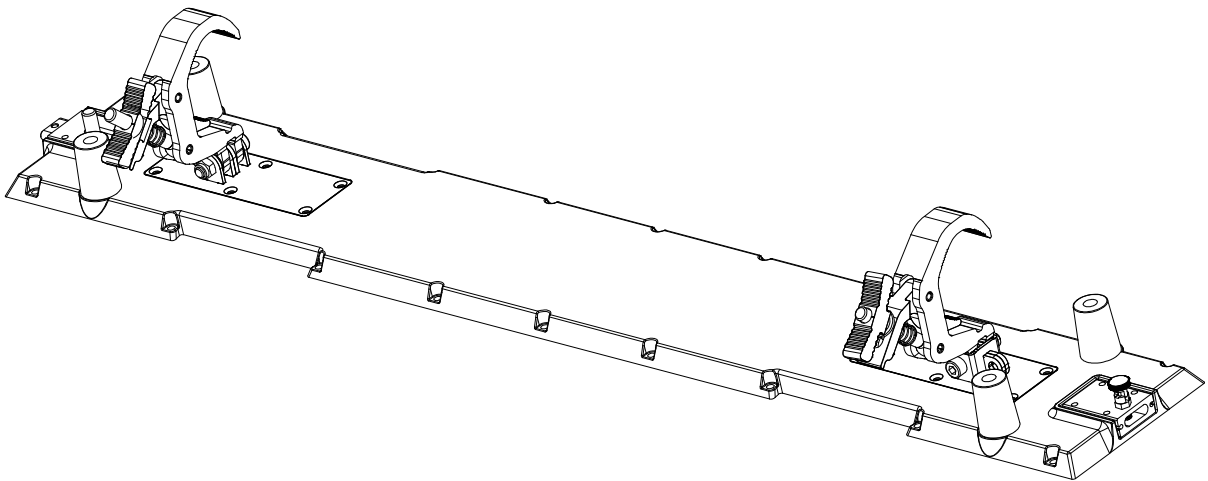
The fixture comes with the G-clamp. (Pic 5)

Fixture Installation

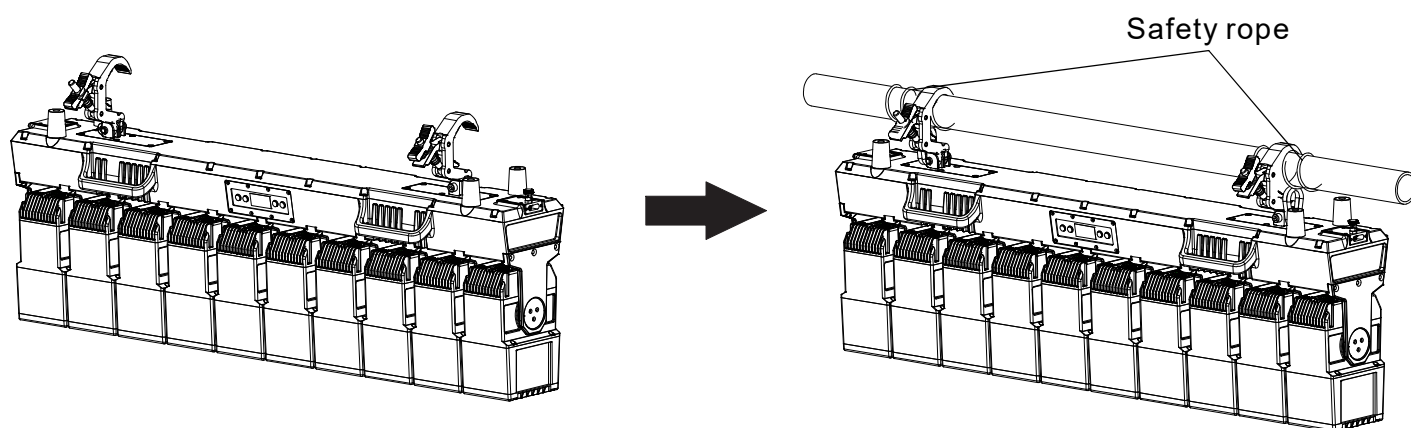
Fixture is installed on the stage or truss, and the G-clamp can be locked on the truss tightly and quickly. (Pic 6)

Notice:

- User must check if the G-clamp and safety chain are damaged or not.
- Side hanging for long time is not recommended.



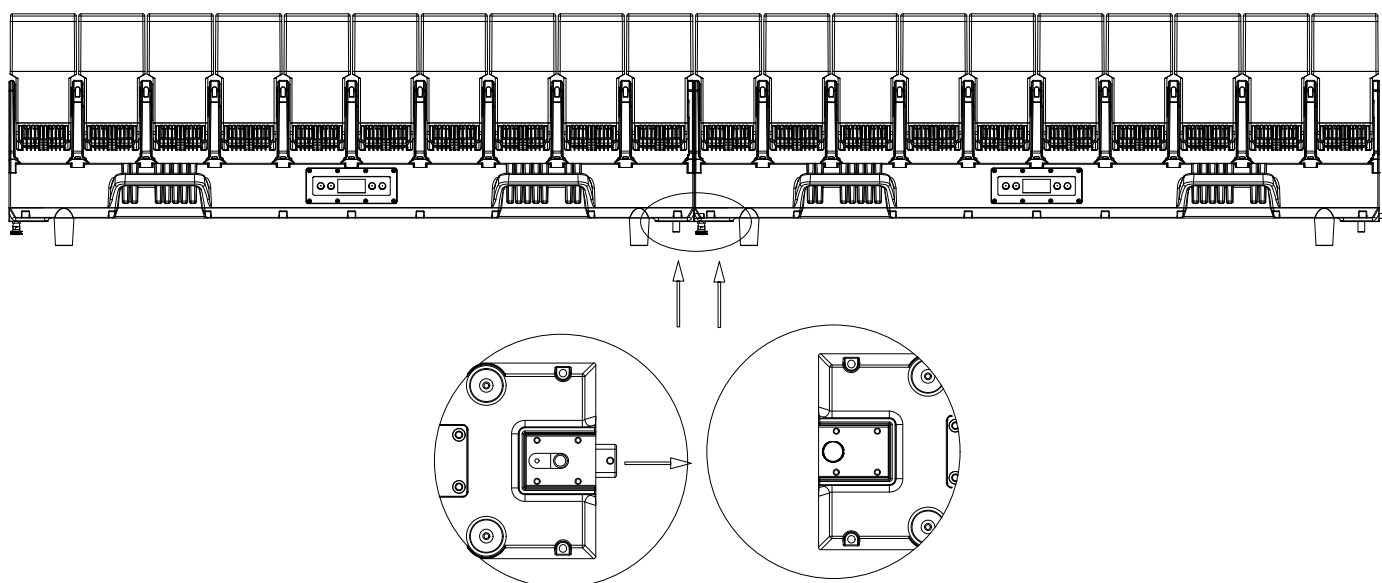
Pic5



Pic6

Piece together the fixture

- Aim the bolt at the hole first and plug the bolt into the hole (follow the arrow direction) (Pic 7)

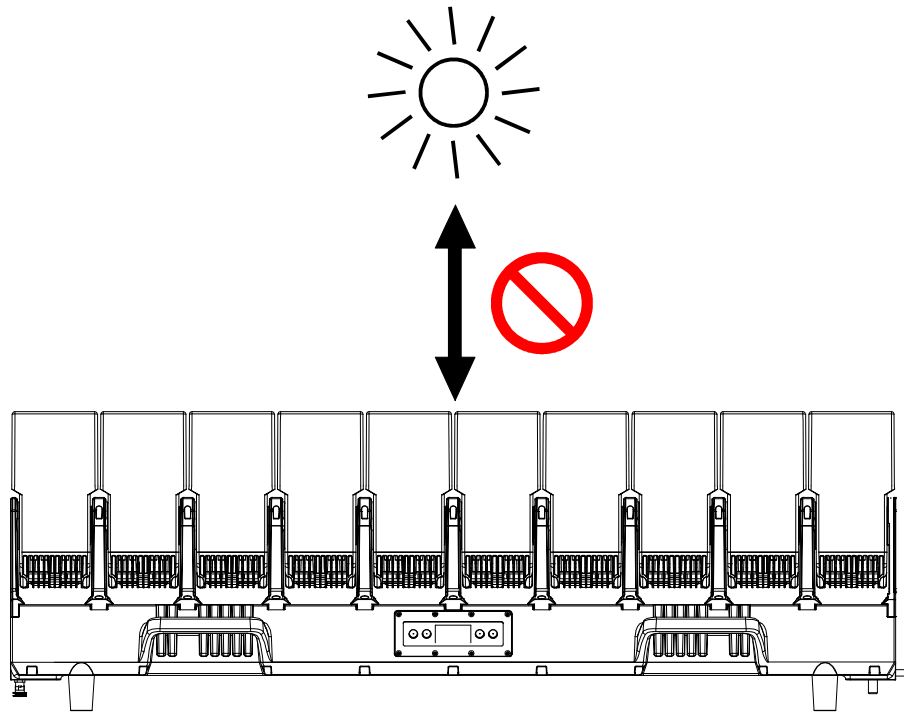


Aim the bolt at the hole

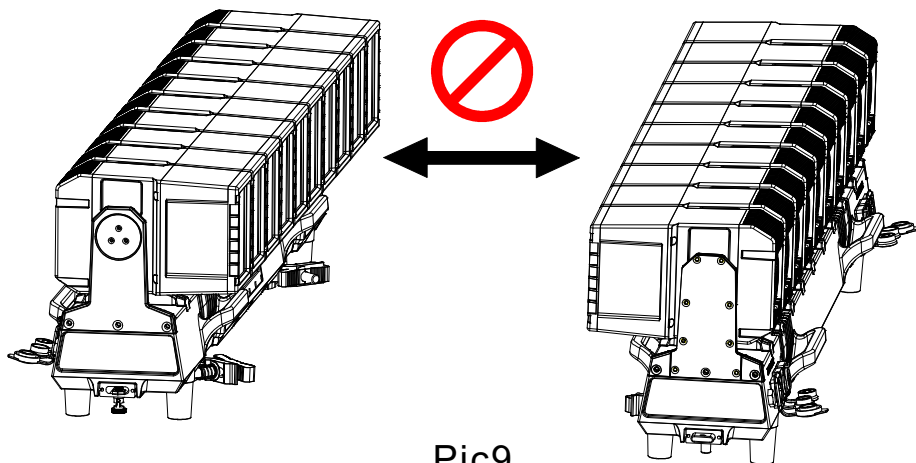
Pic7

Do not expose to strong light

- To prevent damage to the internal components of the light fixture, direct sunlight or other strong light should not be directed at the front lens of the light fixture. (Pic8)
- Direct beams from two light fixtures must be prevented from shining directly at each other. (Pic9)



Pic8



Pic9

DMX Channel Control Details

Mode/Channel							Channel	DMX Values	Function
29CH	56CH	142CH	216CH	247CH	262CH	282CH			
-	1	13	1	18	1	1	head 1	0-255	head tilt 0-200°
-	2	14	2	19	2	2	head 1 fine adjustment	0-255	Fine-tuning adjustable
-	3	26	3	41	3	3	head 2	0-255	head tilt 0-200°
-	4	27	4	42	4	4	head 2 fine adjustment	0-255	Fine-tuning adjustable
-	5	39	5	64	5	5	head 3	0-255	head tilt 0-200°
-	6	40	6	65	6	6	head 3 fine adjustment	0-255	Fine-tuning adjustable
-	7	52	7	87	7	7	head 4	0-255	head tilt 0-200°
-	8	53	8	88	8	8	head 4 fine adjustment	0-255	Fine-tuning adjustable
-	9	65	9	110	9	9	head 5	0-255	head tilt 0-200°
-	10	66	10	111	10	10	head 5 fine adjustment	0-255	Fine-tuning adjustable
-	11	78	11	133	11	11	head 6	0-255	head tilt 0-200°
-	12	79	12	134	12	12	head 6 fine adjustment	0-255	Fine-tuning adjustable
-	13	91	13	156	13	13	head 7	0-255	head tilt 0-200°
-	14	92	14	157	14	14	head 7 fine adjustment	0-255	Fine-tuning adjustable
-	15	104	15	179	15	15	head 8	0-255	head tilt 0-200°
-	16	105	16	180	16	16	head 8 fine adjustment	0-255	Fine-tuning adjustable
-	17	117	17	202	17	17	head 9	0-255	head tilt 0-200°
-	18	118	18	203	18	18	head 9 fine adjustment	0-255	Fine-tuning adjustable
-	19	130	19	225	19	19	head 10	0-255	head tilt 0-200°
-	20	131	20	226	20	20	head 10 fine adjustment	0-255	Fine-tuning adjustable
1	-	-	-	-	-	-	head (total)	0-255	head tilt 0-200°
2	-	-	-	-	-	-	head fine adjustment	0-255	Fine-tuning adjustable
3	21	~	21	~	21	21	head speed	0-255	From fast to slow
4	22	~	22	~	22	22	Head movement effect	0-4	No function
								5-9	effect 1
								10-14	effect 2
								15-19	effect 3
								.	.
								.	.
								.	.
								240-244	effect 48
								245-249	effect 49
								250-254	effect 50
5	23	5	23	5	23	23	Key light Color temperature	0	No function
								1-255	Color temperature from 8000K to 2700K
6	24	~	24	~	24	24	Auxiliary light color temperature	0	No function
								1-255	Color temperature from 6500K to 1800K
								0	No function
								1-2	2700K
								3-4	3200K
								5-6	4000K
								7-8	4200K
								9-10	5600K
								11-12	6500K

7	25	~	25	6	25	25	Color Macros	13-14	7500K
								15	blue
								16-52	Linear change from blue to cyan
								53	Blue
								54-90	Linear change from cyan to green
								91	green
								92-128	Green to yellow linear change
								129	yellow
								130-166	Linear change from yellow to red
								167	red
								168-204	Linear change from red to magenta
								205	magenta
								206-238	Linear change from magenta to blue
								239	blue
								240-245	Color gradient change slow to fast
								250-255	Color jump change slow to fast
8	26	~	26	7	26	26	Key light pattern	0	No function
								1	Pattern 1
								2	Pattern 2
								3	Pattern 3
								.	.
								.	.
								.	.
								253	Pattern 252
								254	Pattern 253
								255	Pattern 254
9	27	6	27	8	27	27	Auxiliary light pattern	0	No function
								1	Pattern 1
								2	Pattern 2
								3	Pattern 3
								.	.
								.	.
								.	.
								253	Pattern 253
								254	Pattern 254
								255	Pattern 255
10	28	~	28	9	28	28	Key Light Effect	0-15	No function
								16-17	Effect 1
								18-19	Effect 2
								20-21	Effect 3
								.	.
								.	.
								.	.
								98-99	Effect 42
								100-101	Effect 43
								102-103	Effect 44
								104-135	Effect 45 (total effect)
								136-137	Effect 46
								138-139	Effect 47
								140-141	Effect 48
								.	.
								.	.
								.	.
								218-219	Effect 87
								220-221	Effect 88

								222-223	Effect 89
								224-255	Effect 90 (total effect)
11	29	~	29	10	29	29	Key Light Effect Speed	0-127	Forward slow to fast
								128-255	Reverse slow to fast
12	30	~	30	11	30	30	Key light trailing effect	0-255	Fast to slow
13	31	9	31	12	31	31	Auxiliary light effect	0-15	No function
								16-17	Effect 1
								18-19	Effect 2
								20-21	Effect 3
								.	.
								.	.
								.	.
								100-101	Effect 43
								102-103	Effect 44
								104-105	Effect 45
								106-135	Effect 46
								136-137	Effect 47
								138-139	Effect 48
								140-141	Effect 49
								.	.
								.	.
								.	.
								220-221	Effect 89
								222-223	Effect 90
								224-225	Effect 91
								226-255	Effect 92
14	32	10	32	13	32	32	Auxiliary light effect speed	0-127	Forward fast to slow
								128-255	Reverse slow to fast
15	33	11	33	14	33	33	Auxiliary light effect trailing	0-255	Fast to slow
16	34	7	34	15	34	34	Background color	0	No function
								1-2	2700
								3-4	3200K
								5-6	4000K
								7-8	4200K
								9-10	5600K
								11-12	6500K
								13-14	7500K
								15	blue
								16-52	Linear change from blue to cyan
								53	Blue
								54-90	Linear change from cyan to green
								91	green
								92-128	Green to yellow linear transition
								129	yellow
								130-166	Linear change from yellow to red
								167	red
								168-204	Linear change from red to magenta
								205	magenta
								206-238	Linear change from magenta to blue
								239	blue
								240-247	Color gradient slow to fast
								248-255	Color jump slow to fast
17	35	8	35	16	35	35	Background light dimming	0-255	From 0% to 100%

~	~	~	~	~	36	36	Background light dimming fine-tuning	0-255	From 0% to 100%
18	36	1	36	1	37	37	Overall dimming	0-255	From 0% to 100%
~	~	2	~	2	38	38	Overall dimming fine-tuning	0-255	From 0% to 100%
19	37	~	37	~	39	39	Auxiliary light overall dimming	0-255	From 0% to 100%
20	38	3	38	3	40	40	Strobe	0-19	off
								20-24	on
								25-64	Strobe 1 from fast to slow
								65-69	Open
								70-84	Strobe 2 (fast begin slow off) from fast to slow
								85-89	Open
								90-104	Strobe 3 (slow begin fast off) from fast to slow
								105-109	Open
								110-124	Strobe 4 (random strobe) from fast to slow
								125-129	Open
								130-144	Strobe 5 (random fast on and slow off) from fast to slow
								145-149	Open
								150-164	Strobe 6 (random slow begin and fast off) from fast to slow
								165-169	Open
								170-184	Strobe 7 (pulse strobe) from fast to slow
								185-189	Open
								190-203	Strobe 8 (random pulse strobe) from fast to slow
								204-209	Open
								210-224	Strobe 9 (gradually bright and gradually dim) from fast to slow
								225-229	Open
								230-244	Strobe 10 (pulse strobe) from fast to slow
								245-255	Open
21	39	4	39	4	41	41	Auxiliary light strobe	0-19	off
								20-24	on
								25-64	Strobe from fast to slow
								65-69	Open
								70-84	Strobe (fast begin slow off) from fast to slow
								85-89	Open
								90-104	Strobe (slow begin fast off) from fast to slow
								105-109	Open
								110-124	Strobe (random strobe) from fast to slow
								125-129	Open
								130-144	Strobe (random fast on and slow off) from fast to slow
								145-149	Open
								150-164	Strobe (random slow begin and fast off) from fast to slow
								165-169	Open
								170-184	Strobe (pulse strobe) from fast to slow
								185-189	Open
								190-203	Strobe 8 (random pulse strobe) from fast to slow
								204-209	Open

								210-224	Strobe (gradually bright and gradually dim) from fast to slow
								225-229	Open
								230-244	Strobe (pulse strobe) from fast to slow
								245-255	Open
22	40	15	40	20	42	42	Zoom 1	0-255	From wide to narrow
	41	28	41	43	43	43	Zoom 2	0-255	From wide to narrow
	42	41	42	66	44	44	Zoom 3	0-255	From wide to narrow
	43	54	43	89	45	45	Zoom 4	0-255	From wide to narrow
	44	67	44	112	46	46	Zoom 5	0-255	From wide to narrow
	45	80	45	135	47	47	Zoom 6	0-255	From wide to narrow
	46	93	46	158	48	48	Zoom 7	0-255	From wide to narrow
	47	106	47	181	49	49	Zoom 8	0-255	From wide to narrow
	48	119	48	204	50	50	Zoom 9	0-255	From wide to narrow
	49	132	49	227	51	51	Zoom 10	0-255	From wide to narrow
23	50	12	50	17	52	52	Functional Channel	0-9	No function
								10-54	Reserve
								55-60	Vertical reset
								61-65	Zoom reset
								66-75	Fixture reset
								76-79	Key light forward
								80-84	Key light reverse
								85-89	Reserve
								90-94	Head reverse
								95-99	Reserve
								100-104	head reverse cancellation
								105-134	Reserve
								135-139	Fast dimming
								140-144	Smooth dimming
								145-149	Linear
								150-154	Square
								155-159	Curve ISqua
								160-164	SCurve
								165-179	Reserve
								180-184	Reserve
								185-189	Reserve
								190-194	Reserve
								195-199	Reserve
								200-204	Reserve
								205-255	Reserve
24	51	~	51	~	53	53	Red total	0-255	From 0% to 100%
~	~	~	~	~	54	54	Red total fine-tuning	0-255	From 0% to 100%
25	52	~	52	~	55	55	Green Total	0-255	From 0% to 100%
~	~	~	~	~	56	56	Green total fine-tuning	0-255	From 0% to 100%
26	53	~	53	~	57	57	Blue Total	0-255	From 0% to 100%
~	~	~	~	~	58	58	Blue total fine-tuning	0-255	From 0% to 100%
27	54	~	54	~	59	59	White total	0-255	From 0% to 100%
~	~	~	~	~	60	60	White total fine-tuning	0-255	From 0% to 100%
28	55	~	55	~	61	61	Auxiliary light cool white total dimming	0-255	From 0% to 100%
29	56	~	56	~	62	62	Auxiliary light warm white overall dimming	0-255	From 0% to 100%

~	~	~	~	~	~	63	Total dimming 1	0-255	From 0% to 100%
~	~	~	~	~	~	64	Total dimming 1 fine adjustment	0-255	From 0% to 100%
~	~	16	57	21	63	65	Red 1	0-255	From 0% to 100%
~	~	17	~	22	64	66	Red 1 fine-tuning	0-255	From 0% to 100%
~	~	18	58	23	65	67	Green 1	0-255	From 0% to 100%
~	~	19	~	24	66	68	Green 1 fine-tuning	0-255	From 0% to 100%
~	~	20	59	25	67	69	Blue 1	0-255	From 0% to 100%
~	~	21	~	26	68	70	Blue 1 fine-tuning	0-255	From 0% to 100%
~	~	22	60	27	69	71	White 1	0-255	From 0% to 100%
~	~	23	~	28	70	72	White 1 fine-tuning	0-255	From 0% to 100%
~	~	~	~	~	~	73	Total dimming 2	0-255	From 0% to 100%
~	~	~	~	~	~	74	Total dimming 2 fine adjustment	0-255	From 0% to 100%
~	~	29	61	44	71	75	Red 2	0-255	From 0% to 100%
~	~	30	~	45	72	76	Red 2 fine tuning	0-255	From 0% to 100%
~	~	31	62	46	73	77	Green 2	0-255	From 0% to 100%
~	~	32	~	47	74	78	Green 2 fine-tuning	0-255	From 0% to 100%
~	~	33	63	48	75	79	Blue 2	0-255	From 0% to 100%
~	~	34	~	49	76	80	Blue 2 fine-tuning	0-255	From 0% to 100%
~	~	35	64	50	77	81	White 2	0-255	From 0% to 100%
~	~	36	~	51	78	82	White 2 fine-tuning	0-255	From 0% to 100%
~	~	~	~	~	~	83	Total dimming 3	0-255	From 0% to 100%
~	~	~	~	~	~	84	Total dimming 3 fine adjustment	0-255	From 0% to 100%
~	~	42	65	67	79	85	Red 3	0-255	From 0% to 100%
~	~	43	~	68	80	86	Red 3 fine tuning	0-255	From 0% to 100%
~	~	44	66	69	81	87	Green 3	0-255	From 0% to 100%
~	~	45	~	70	82	88	Green 3 fine-tuning	0-255	From 0% to 100%
~	~	46	67	71	83	89	Blue 3	0-255	From 0% to 100%
~	~	47	~	72	84	90	Blue 3 fine-tuning	0-255	From 0% to 100%
~	~	48	68	73	85	91	White 3	0-255	From 0% to 100%
~	~	49	~	74	86	92	White 3 fine-tuning	0-255	From 0% to 100%
~	~	~	~	~	~	93	Total dimming 4	0-255	From 0% to 100%
~	~	~	~	~	~	94	Total dimming 4 fine adjustment	0-255	From 0% to 100%
~	~	55	69	90	87	95	Red 4	0-255	From 0% to 100%
~	~	56	~	91	88	96	Red 4 fine tuning	0-255	From 0% to 100%
~	~	57	70	92	89	97	Green 4	0-255	From 0% to 100%
~	~	58	~	93	90	98	Green 4 fine-tuning	0-255	From 0% to 100%
~	~	59	71	94	91	99	Blue 4	0-255	From 0% to 100%
~	~	60	~	95	92	100	Blue 4 fine-tuning	0-255	From 0% to 100%
~	~	61	72	96	93	101	White 4	0-255	From 0% to 100%
~	~	62	~	97	94	102	White 4 fine-tuning	0-255	From 0% to 100%
~	~	~	~	~	~	103	Total dimming 5	0-255	From 0% to 100%
~	~	~	~	~	~	104	Total dimming 5 fine adjustment	0-255	From 0% to 100%
~	~	68	73	113	95	105	Red 5	0-255	From 0% to 100%
~	~	69	~	114	96	106	Red 5 fine-tuning	0-255	From 0% to 100%
~	~	70	74	115	97	107	Green 5	0-255	From 0% to 100%
~	~	71	~	116	98	108	Green 5 fine-tuning	0-255	From 0% to 100%
~	~	72	75	117	99	109	Blue 5	0-255	From 0% to 100%
~	~	73	~	118	100	110	Blue 5 fine-tuning	0-255	From 0% to 100%
~	~	74	76	119	101	111	White 5	0-255	From 0% to 100%
~	~	75	~	120	102	112	White 5 fine-tuning	0-255	From 0% to 100%
~	~	~	~	~	~	113	Total dimming 6	0-255	From 0% to 100%

~	~	~	~	~	~	114	Total dimming 6 fine adjustments	0-255	From 0% to 100%
~	~	81	77	136	103	115	Red 6	0-255	From 0% to 100%
~	~	82	~	137	104	116	Red 6 fine tuning	0-255	From 0% to 100%
~	~	83	78	138	105	117	Green 6	0-255	From 0% to 100%
~	~	84	~	139	106	118	Green 6 fine-tuning	0-255	From 0% to 100%
~	~	85	79	140	107	119	Blue 6	0-255	From 0% to 100%
~	~	86	~	141	108	120	Blue 6 fine-tuning	0-255	From 0% to 100%
~	~	87	80	142	109	121	White 6	0-255	From 0% to 100%
~	~	88	~	143	110	122	White 6 fine-tuning	0-255	From 0% to 100%
~	~	~	~	~	~	123	Total dimming 7	0-255	From 0% to 100%
~	~	~	~	~	~	124	Total dimming 7 fine adjustments	0-255	From 0% to 100%
~	~	94	81	159	111	125	Red 7	0-255	From 0% to 100%
~	~	95	~	160	112	126	Red 7 fine tuning	0-255	From 0% to 100%
~	~	96	82	161	113	127	Green 7	0-255	From 0% to 100%
~	~	97	~	162	114	128	Green 7 fine-tuning	0-255	From 0% to 100%
~	~	98	83	163	115	129	Blue 7	0-255	From 0% to 100%
~	~	99	~	164	116	130	Blue 7 fine-tuning	0-255	From 0% to 100%
~	~	100	84	165	117	131	White 7	0-255	From 0% to 100%
~	~	101	~	166	118	132	White 7 fine-tuning	0-255	From 0% to 100%
~	~	~	~	~	~	133	Total dimming 8	0-255	From 0% to 100%
~	~	~	~	~	~	134	Total dimming 8 fine adjustments	0-255	From 0% to 100%
~	~	107	85	182	119	135	Red 8	0-255	From 0% to 100%
~	~	108	~	183	120	136	Red 8 fine tuning	0-255	From 0% to 100%
~	~	109	86	184	121	137	Green 8	0-255	From 0% to 100%
~	~	110	~	185	122	138	Green 8 fine-tuning	0-255	From 0% to 100%
~	~	111	87	186	123	139	Blue 8	0-255	From 0% to 100%
~	~	112	~	187	124	140	Blue 8 fine-tuning	0-255	From 0% to 100%
~	~	113	88	188	125	141	White 8	0-255	From 0% to 100%
~	~	114	~	189	126	142	White 8 fine-tuning	0-255	From 0% to 100%
~	~	~	~	~	~	143	Total dimming 9	0-255	From 0% to 100%
~	~	~	~	~	~	144	Total dimming 9 fine adjustment	0-255	From 0% to 100%
~	~	120	89	205	127	145	Red 9	0-255	From 0% to 100%
~	~	121	~	206	128	146	Red 9 fine tuning	0-255	From 0% to 100%
~	~	122	90	207	129	147	Green 9	0-255	From 0% to 100%
~	~	123	~	208	130	148	Green 9 fine-tuning	0-255	From 0% to 100%
~	~	124	91	209	131	149	Blue 9	0-255	From 0% to 100%
~	~	125	~	210	132	150	Blue 9 fine-tuning	0-255	From 0% to 100%
~	~	126	92	211	133	151	White 9	0-255	From 0% to 100%
~	~	127	~	212	134	152	White 9 fine-tuning	0-255	From 0% to 100%
~	~	~	~	~	~	153	Total dimming 10	0-255	From 0% to 100%
~	~	~	~	~	~	154	Total dimming 10 fine adjustment	0-255	From 0% to 100%
~	~	133	93	228	135	155	Red 10	0-255	From 0% to 100%
~	~	134	~	229	136	156	Red 10 fine tuning	0-255	From 0% to 100%
~	~	135	94	230	137	157	Green 10	0-255	From 0% to 100%
~	~	136	~	231	138	158	Green 10 fine-tuning	0-255	From 0% to 100%
~	~	137	95	232	139	159	Blue 10	0-255	From 0% to 100%
~	~	138	~	233	140	160	Blue 10 fine-tuning	0-255	From 0% to 100%
~	~	139	96	234	141	161	White 10	0-255	From 0% to 100%
~	~	140	~	235	142	162	White 10 fine-tuning	0-255	From 0% to 100%

~	~	24	97	29	143	163	Auxiliary light cool white 1 dimming	0-255	From 0% to 100%
~	~	25	98	35	144	164	Auxiliary light warm white 1 dimming	0-255	From 0% to 100%
~	~	24	99	30	145	165	Auxiliary light cool white 2 dimming	0-255	From 0% to 100%
~	~	25	100	36	146	166	Auxiliary light warm white 2 dimming	0-255	From 0% to 100%
~	~	24	101	31	147	167	Auxiliary light cool white 3 dimming	0-255	From 0% to 100%
~	~	25	102	37	148	168	Auxiliary light warm white 3 dimming	0-255	From 0% to 100%
~	~	37	103	52	149	169	Auxiliary light cool white 4 dimming	0-255	From 0% to 100%
~	~	38	104	58	150	170	Auxiliary light warm white 4 dimming	0-255	From 0% to 100%
~	~	37	105	53	151	171	Auxiliary light cool white 5 dimming	0-255	From 0% to 100%
~	~	38	106	59	152	172	Auxiliary light warm white 5 dimming	0-255	From 0% to 100%
~	~	37	107	54	153	173	Auxiliary light cool white 6 dimming	0-255	From 0% to 100%
~	~	38	108	60	154	174	Auxiliary light warm white 6 dimming	0-255	From 0% to 100%
~	~	50	109	75	155	175	Auxiliary light cool white 7 dimming	0-255	From 0% to 100%
~	~	51	110	81	156	176	Auxiliary light warm white 7 dimming	0-255	From 0% to 100%
~	~	50	111	76	157	177	Auxiliary light cool white 8 dimming	0-255	From 0% to 100%
~	~	51	112	82	158	178	Auxiliary light warm white 8 dimming	0-255	From 0% to 100%
~	~	50	113	77	159	179	Auxiliary light cool white 9 dimming	0-255	From 0% to 100%
~	~	51	114	83	160	180	Auxiliary light warm white 9 dimming	0-255	From 0% to 100%
~	~	63	115	98	161	181	Auxiliary light cool white 10 dimming	0-255	From 0% to 100%
~	~	64	116	104	162	182	Auxiliary light warm white 10 dimming	0-255	From 0% to 100%
~	~	63	117	99	163	183	Auxiliary light cool white 11 dimming	0-255	From 0% to 100%
~	~	64	118	105	164	184	Auxiliary light warm white 11 dimming	0-255	From 0% to 100%
~	~	63	119	100	165	185	Auxiliary light cool white 12 dimming	0-255	From 0% to 100%
~	~	64	120	106	166	186	Auxiliary light warm white 12 dimming	0-255	From 0% to 100%
~	~	76	121	121	167	187	Auxiliary light cool white 13 dimming	0-255	From 0% to 100%
~	~	77	122	127	168	188	Auxiliary light warm white 13 dimming	0-255	From 0% to 100%
~	~	76	123	122	169	189	Auxiliary light cool white 14 dimming	0-255	From 0% to 100%
~	~	77	124	128	170	190	Auxiliary light warm white 14 dimming	0-255	From 0% to 100%
~	~	76	125	123	171	191	Auxiliary light cool white 15 dimming	0-255	From 0% to 100%
~	~	77	126	129	172	192	Auxiliary light warm white 15 dimming	0-255	From 0% to 100%
~	~	89	127	144	173	193	Auxiliary light cool white 16 dimming	0-255	From 0% to 100%

~	~	90	128	150	174	194	Auxiliary light warm white 16 dimming	0-255	From 0% to 100%
~	~	89	129	145	175	195	Auxiliary light cool white 17 dimming	0-255	From 0% to 100%
~	~	90	130	151	176	196	Auxiliary light warm white 17 dimming	0-255	From 0% to 100%
~	~	89	131	146	177	197	Auxiliary light cool white 18 dimming	0-255	From 0% to 100%
~	~	90	132	152	178	198	Auxiliary light warm white 18 dimming	0-255	From 0% to 100%
~	~	102	133	167	179	199	Auxiliary light cool white 19 dimming	0-255	From 0% to 100%
~	~	103	134	173	180	200	Auxiliary light warm white 19 dimming	0-255	From 0% to 100%
~	~	102	135	168	181	201	Auxiliary light cool white 20 dimming	0-255	From 0% to 100%
~	~	103	136	174	182	202	Auxiliary light warm white 20 dimming	0-255	From 0% to 100%
~	~	102	137	169	183	203	Auxiliary light cool white 21 dimming	0-255	From 0% to 100%
~	~	103	138	175	184	204	Auxiliary light warm white 21 dimming	0-255	From 0% to 100%
~	~	115	139	190	185	205	Auxiliary light cool white 22 dimming	0-255	From 0% to 100%
~	~	116	140	196	186	206	Auxiliary light warm white 22 dimming	0-255	From 0% to 100%
~	~	115	141	191	187	207	Auxiliary light cool white 23 dimming	0-255	From 0% to 100%
~	~	116	142	197	188	208	Auxiliary light warm white 23 dimming	0-255	From 0% to 100%
~	~	115	143	192	189	209	Auxiliary light cool white 24 dimming	0-255	From 0% to 100%
~	~	116	144	198	190	210	Auxiliary light warm white 24 dimming	0-255	From 0% to 100%
~	~	128	145	213	191	211	Auxiliary light cool white 25 dimming	0-255	From 0% to 100%
~	~	129	146	219	192	212	Auxiliary light warm white 25 dimming	0-255	From 0% to 100%
~	~	128	147	214	193	213	Auxiliary light cool white 26 dimming	0-255	From 0% to 100%
~	~	129	148	220	194	214	Auxiliary light warm white 26 dimming	0-255	From 0% to 100%
~	~	128	149	215	195	215	Auxiliary light cool white 27 dimming	0-255	From 0% to 100%
~	~	129	150	221	196	216	Auxiliary light warm white 27 dimming	0-255	From 0% to 100%
~	~	141	151	236	197	217	Auxiliary light cool white 28 dimming	0-255	From 0% to 100%
~	~	142	152	242	198	218	Auxiliary light warm white 28 dimming	0-255	From 0% to 100%
~	~	141	153	237	199	219	Auxiliary light cool white 29 dimming	0-255	From 0% to 100%
~	~	142	154	243	200	220	Auxiliary light warm white 29 dimming	0-255	From 0% to 100%
~	~	141	155	238	201	221	Auxiliary light cool white 30 dimming	0-255	From 0% to 100%
~	~	142	156	244	202	222	Auxiliary light warm white 30 dimming	0-255	From 0% to 100%
~	~	141	157	239	203	223	Auxiliary light cool white 31 dimming	0-255	From 0% to 100%
~	~	142	158	245	204	224	Auxiliary light warm white 31 dimming	0-255	From 0% to 100%

~	~	141	159	240	205	225	Auxiliary light cool white 32 dimming	0-255	From 0% to 100%
~	~	142	160	246	206	226	Auxiliary light warm white 32 dimming	0-255	From 0% to 100%
~	~	141	161	241	207	227	Auxiliary light cool white 33 dimming	0-255	From 0% to 100%
~	~	142	162	247	208	228	Auxiliary light warm white 33 dimming	0-255	From 0% to 100%
~	~	128	163	216	209	229	Auxiliary light cool white 34 dimming	0-255	From 0% to 100%
~	~	129	164	222	210	230	Auxiliary light warm white 34 dimming	0-255	From 0% to 100%
~	~	128	165	217	211	231	Auxiliary light cool white 35 dimming	0-255	From 0% to 100%
~	~	129	166	223	212	232	Auxiliary light warm white 35 dimming	0-255	From 0% to 100%
~	~	128	167	218	213	233	Auxiliary light cool white 36 dimming	0-255	From 0% to 100%
~	~	129	168	224	214	234	Auxiliary light warm white 36 dimming	0-255	From 0% to 100%
~	~	115	169	193	215	235	Auxiliary light cool white 37 dimming	0-255	From 0% to 100%
~	~	116	170	199	216	236	Auxiliary light warm white 37 dimming	0-255	From 0% to 100%
~	~	115	171	194	217	237	Auxiliary light cool white 38 dimming	0-255	From 0% to 100%
~	~	116	172	200	218	238	Auxiliary light warm white 38 dimming	0-255	From 0% to 100%
~	~	115	173	195	219	239	Auxiliary light cool white 39 dimming	0-255	From 0% to 100%
~	~	116	174	201	220	240	Auxiliary light warm white 39 dimming	0-255	From 0% to 100%
~	~	102	175	170	221	241	Auxiliary light cool white 40 dimming	0-255	From 0% to 100%
~	~	103	176	176	222	242	Auxiliary light warm white 40 dimming	0-255	From 0% to 100%
~	~	102	177	171	223	243	Auxiliary light cool white 41 dimming	0-255	From 0% to 100%
~	~	103	178	177	224	244	Auxiliary light warm white 41 dimming	0-255	From 0% to 100%
~	~	102	179	172	225	245	Auxiliary light cool white 42 dimming	0-255	From 0% to 100%
~	~	103	180	178	226	246	Auxiliary light warm white 42 dimming	0-255	From 0% to 100%
~	~	89	181	147	227	247	Auxiliary light cool white 43 dimming	0-255	From 0% to 100%
~	~	90	182	153	228	248	Auxiliary light warm white 43 dimming	0-255	From 0% to 100%
~	~	89	183	148	229	249	Auxiliary light cool white 44 dimming	0-255	From 0% to 100%
~	~	90	184	154	230	250	Auxiliary light warm white 44 dimming	0-255	From 0% to 100%
~	~	89	185	149	231	251	Auxiliary light cool white 45 dimming	0-255	From 0% to 100%
~	~	90	186	155	232	252	Auxiliary light warm white 45 dimming	0-255	From 0% to 100%
~	~	76	187	124	233	253	Auxiliary light cool white 46 dimming	0-255	From 0% to 100%
~	~	77	188	130	234	254	Auxiliary light warm white 46 dimming	0-255	From 0% to 100%
~	~	76	189	125	235	255	Auxiliary light cool white 47 dimming	0-255	From 0% to 100%

~	~	77	190	131	236	256	Auxiliary light warm white 47 dimming	0-255	From 0% to 100%
~	~	76	191	126	237	257	Auxiliary light cool white 48 dimming	0-255	From 0% to 100%
~	~	77	192	132	238	258	Auxiliary light warm white 48 dimming	0-255	From 0% to 100%
~	~	63	193	101	239	259	Auxiliary light cool white 49 dimming	0-255	From 0% to 100%
~	~	64	194	107	240	260	Auxiliary light warm white 49 dimming	0-255	From 0% to 100%
~	~	63	195	102	241	261	Auxiliary light cool white 50 dimming	0-255	From 0% to 100%
~	~	64	196	108	242	262	Auxiliary light warm white 50 dimming	0-255	From 0% to 100%
~	~	63	197	103	243	263	Auxiliary light cool white 51 dimming	0-255	From 0% to 100%
~	~	64	198	109	244	264	Auxiliary light warm white 51 dimming	0-255	From 0% to 100%
~	~	50	199	78	245	265	Auxiliary light cool white 52 dimming	0-255	From 0% to 100%
~	~	51	200	84	246	266	Auxiliary light warm white 52 dimming	0-255	From 0% to 100%
~	~	50	201	79	247	267	Auxiliary light cool white 53 dimming	0-255	From 0% to 100%
~	~	51	202	85	248	268	Auxiliary light warm white 53 dimming	0-255	From 0% to 100%
~	~	50	203	80	249	269	Auxiliary light cool white 54 dimming	0-255	From 0% to 100%
~	~	51	204	86	250	270	Auxiliary light warm white 54 dimming	0-255	From 0% to 100%
~	~	37	205	55	251	271	Auxiliary light cool white 55 dimming	0-255	From 0% to 100%
~	~	38	206	61	252	272	Auxiliary light warm white 55 dimming	0-255	From 0% to 100%
~	~	37	207	56	253	273	Auxiliary light cool white 56 dimming	0-255	From 0% to 100%
~	~	38	208	62	254	274	Auxiliary light warm white 56 dimming	0-255	From 0% to 100%
~	~	37	209	57	255	275	Auxiliary light cool white 57 dimming	0-255	From 0% to 100%
~	~	38	210	63	256	276	Auxiliary light warm white 57 dimming	0-255	From 0% to 100%
~	~	24	211	32	257	277	Auxiliary light cool white 58 dimming	0-255	From 0% to 100%
~	~	25	212	38	258	278	Auxiliary light warm white 58 dimming	0-255	From 0% to 100%
~	~	24	213	33	259	279	Auxiliary light cool white 59 dimming	0-255	From 0% to 100%
~	~	25	214	39	260	280	Auxiliary light warm white 59 dimming	0-255	From 0% to 100%
~	~	24	215	34	261	281	Auxiliary light cool white 60 dimming	0-255	From 0% to 100%
~	~	25	216	40	262	282	Auxiliary light warm white 60 dimming	0-255	From 0% to 100%

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: channel failure:

- Check if power input is normal.
- Check if power switch is on.
- Check if fuse is burned.
- Step motor or motor leading wire Maybe damaged.
- Drive circuit of motor may be damaged.

Console losing control:

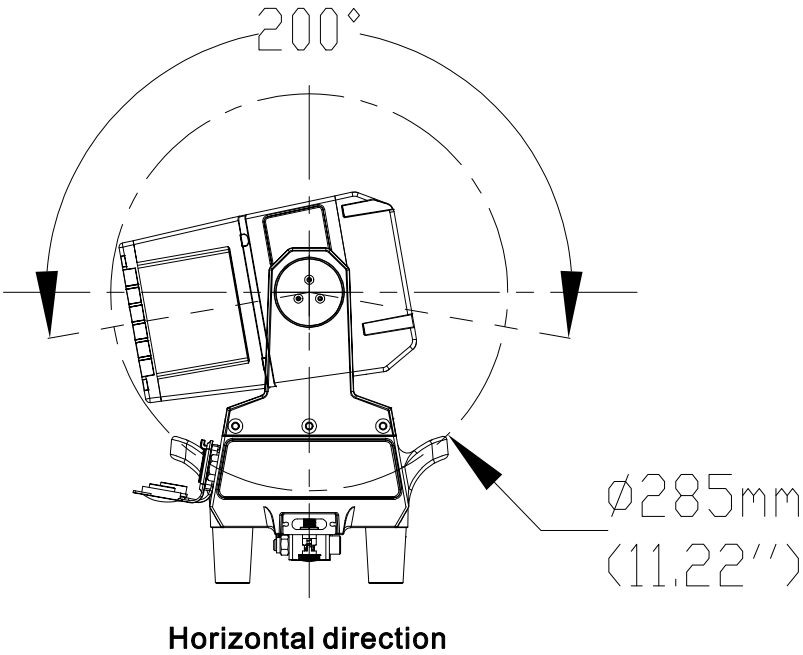
- Check if the display is flicker, if yes, check if DMX signal connector and signal cable are connected well.
- If the display is not flickering, but the fixture is still have no response to the control channel instructions, please check if IP address is correctly set.
- If DMX signal is not stable,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

Lamp blinking:

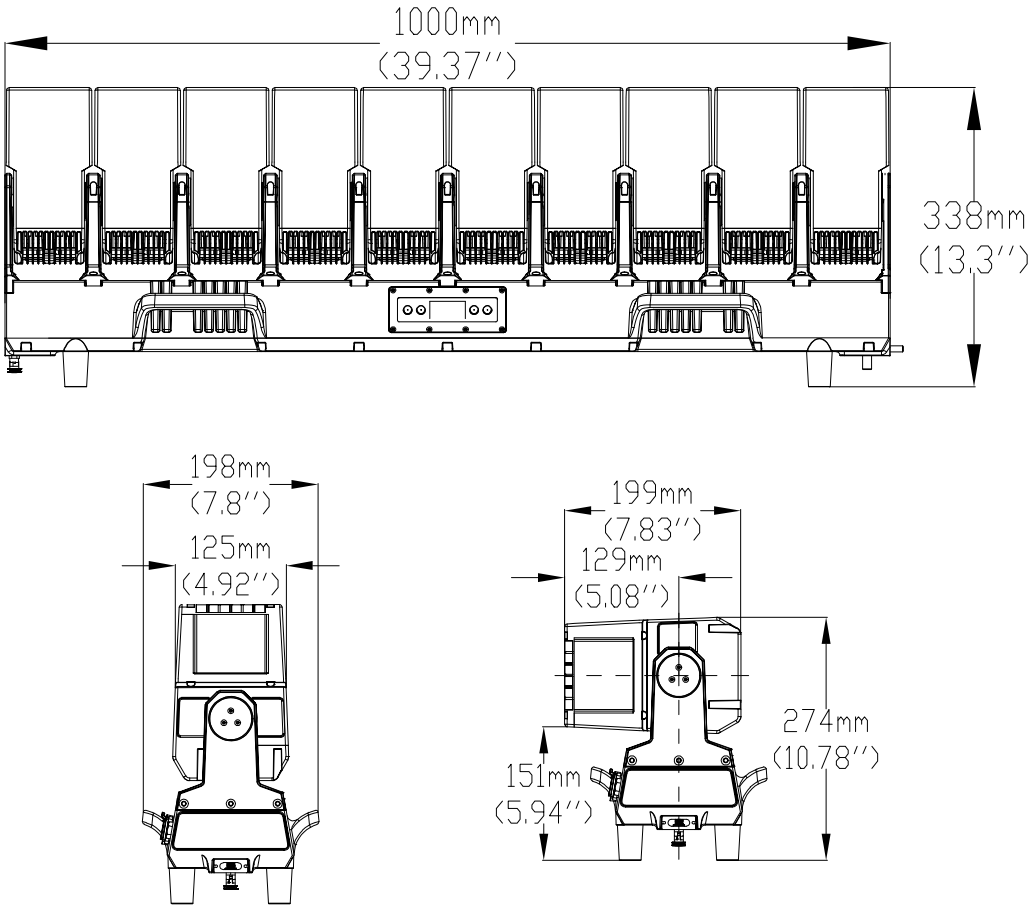
- Check if the voltage is too high or too low, when the lamp is abnormal lighting.
- It is necessary to change the fan if the inner temperature is too high.

Attachment 1 Angle range and the measurement figure of the fixture

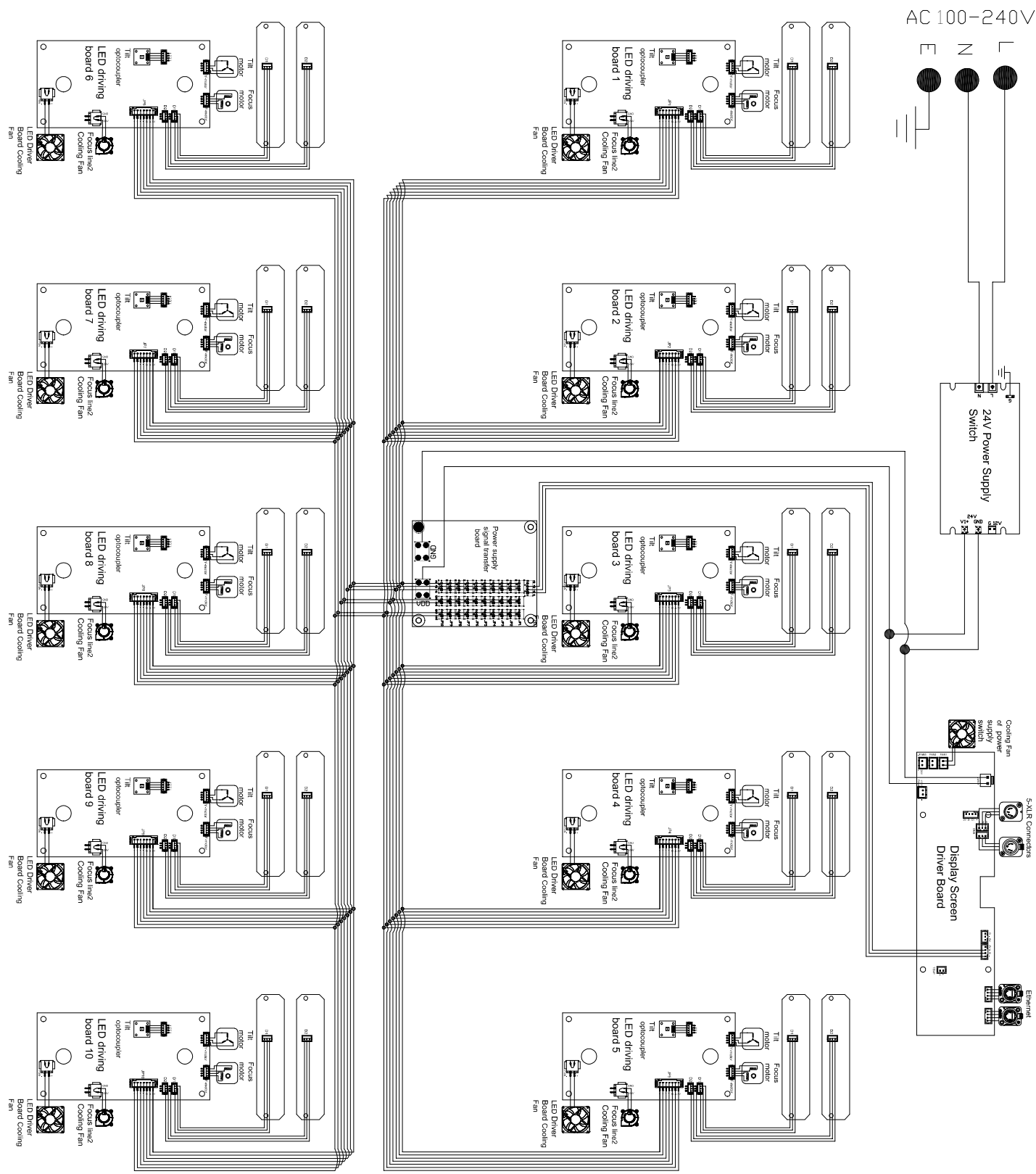
● Angle range of the fixture



● The measurement figure of the fixture



Attachment 2:Electrical Diagram



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