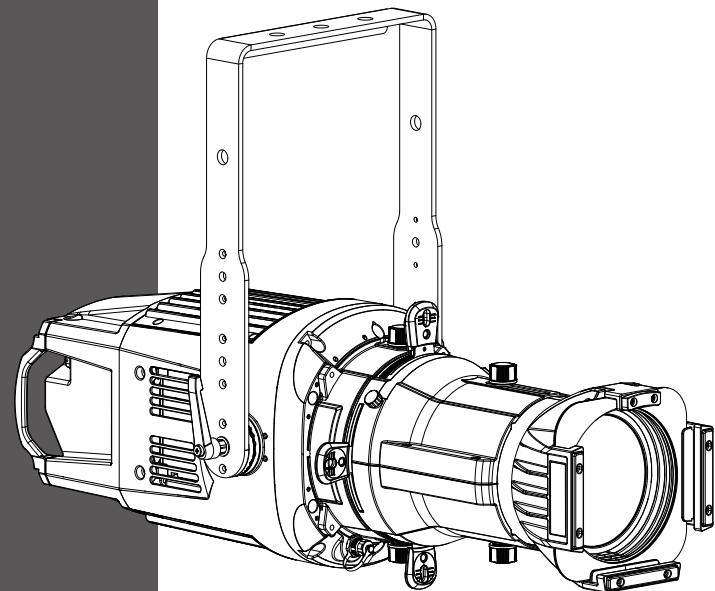


CKC

Profile 500FC IP



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Before carrying out any installation, maintenance, or cleaning of the lighting fixtures, please confirm that the power has been cut off! Before using this fixture, please read this manual. Our company reserves the right to change product design and specifications without prior notice.

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★ Statement ★

- This manual contains important information on safe use and installation. Please read it carefully and follow the requirements for operation and installation. Please keep this manual properly;
- The equipment has good performance and complete packaging when it leaves the factory. The operator should strictly follow the warning items and operating instructions stated in the manual. Any malfunction or damage caused by misuse or neglect of the manual is not within the scope of our company's responsibility and warranty;
- The relevant information in this manual is for reference only. All lighting products are subject to the actual product. Any changes will not be notified separately, and our company reserves the right of final interpretation.

1. Security Warning Information



Attention !

Please read the safety requirements information in this section carefully before installing, powering on, operating, or repairing the lighting fixtures.



- This product is for professional use and is not suitable for other purposes;
- After receiving the lighting fixtures, please check if the packaging is complete and unpack to check if the equipment has been damaged due to transportation. If there is any damage caused by transportation, please do not use this lamp and contact local technicians or manufacturers as soon as possible;
- When transporting again, please use the original packaging materials;
- If there is obvious damage to the machine casing, it should be replaced in a timely manner;
- When hanging lamps, it is necessary to verify that the hanging equipment can withstand more than 6 times the weight of the lamp. After installation, it is necessary to verify that the lamp cover and installation buckle are secure and undamaged. At the same time, a safety rope should be used as an auxiliary safety for the lamp and fixed on the truss;
- The light source inside this luminaire should be replaced by the manufacturer, its service agent, or a similarly qualified person;
- If you have any other questions about how to safely operate the equipment, please contact our technical personnel or call our service hotline;
- This product has a protection level of IP65 and can be used both indoors and outdoors;
- Avoid direct external strong light shining on the lens, which may cause the lens to focus and burn out internal components.



- Lighting fixtures should be kept clean and avoid prolonged use in overheated or dusty environments to prevent contact with chemical liquids;
- When using the product, attention should be paid to avoiding serious or fatal injuries caused by fire, heat, electrical shock, and ultraviolet radiation. Before powering on or installing, read the instruction manual first. Follow the safety precautions for operation and pay attention to the warning signs on the instructions and equipment;
- Only professionals are allowed to install, operate, and maintain lighting fixtures, and strictly follow the procedures stated in the operating instructions.



- The eyes cannot directly look at the luminous object;
- Do not connect this device to any dimmer;
- If visible damage occurs to the protective casing, lens, and display screen on the lighting fixture, it is considered as damage to the point of loss;
- Please do not place any filters or other items at the light outlet, and do not replace non original parts;
- The minimum safe illumination distance of the lamp is 1m.



- Before installation, please confirm that the power supply voltage used matches the voltage indicated on the light fixture. Each lighting fixture should be properly grounded and electrically installed according to relevant standards;
- Please disconnect the power before repairing or cleaning the equipment;
- During the operation of the lighting fixtures, touching the wires is prohibited to prevent electric shock;
- If the external soft cable or wire of this lamp is damaged, the wire should be replaced by the manufacturer, its agent, or a similarly qualified person to avoid danger;
- Avoid flammable liquids, water, or metal conductors from entering the interior of the lamp to prevent electric shock or fire. If any foreign objects enter the lamp, immediately cut off the power supply;
- When multiple lamps are operated in series, the signal lines can be connected in multiple ways, but the power supply must be connected separately.



- The lighting fixtures work normally at -20 °C to 45 °C . When replacing any components or accessories in the equipment, ensure that the power is disconnected to prevent electric shock and injury;
- The maximum surface temperature of the lamp during operation can reach 55 °C , please do not touch it with bare hands.

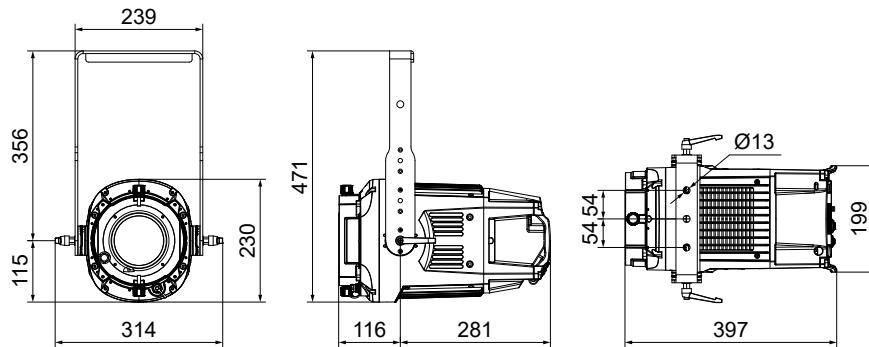


- The lighting fixtures must be installed in a sufficiently ventilated area, at least 0.5m away from adjacent surfaces, to ensure that no ventilation holes are blocked;
- Do not install the lighting fixtures directly on flammable objects;
- The minimum distance between all outer surfaces of the lamp and combustible materials is 0.5m.

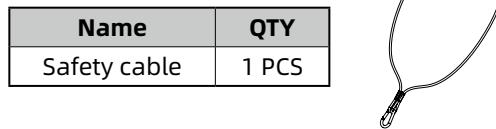
2. Product Introduction

2.1 Exterior dimensions of lighting fixtures

314 × 397 × 471 mm



2.2 Packaging accessories



3. Main technical parameters of the equipment

Product execution standards: GB7000.1-2023, GB7000.217-2023, Q/YF-2017, CE

● Electrical parameter

Rated input voltage: AC 100V-240V~ 50Hz/60Hz

Rated power of the entire fixture: 485W

Power factor: 0.99F

Input Current: 0.895A 220V

● LED lifespan

> 20000 hours

● Optical system

Source: 500W RGBMA LED

Optional accessories:

Threading lens (beam angle: 10~17°, spot angle: 17~47°)

Waterproof lens (light output angle: 14° / 19° / 26° / 36° / 50° / 70°)

Output luminous flux: 18900 Lm

CRI: 93

CCT: 2400~8500K

● Control and programming

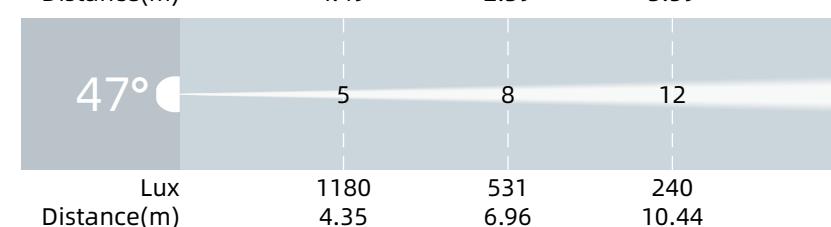
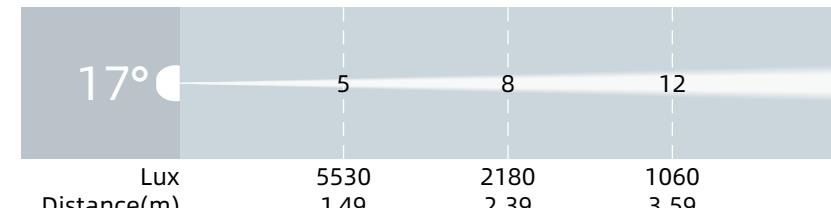
Control channel: 1 / 4 / 6 / 9 / 10 / 11 / 13 / 15 / 19 CH

Protocol: DMX512, RDM

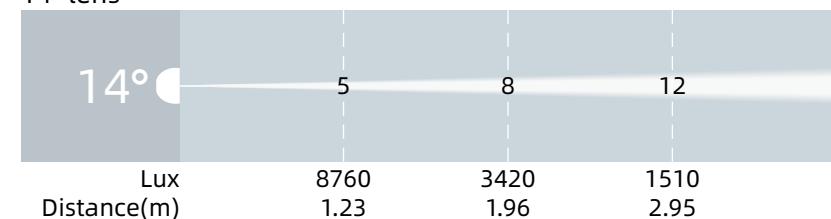
Data connect: 3 PIN XLR

● Illumination draw

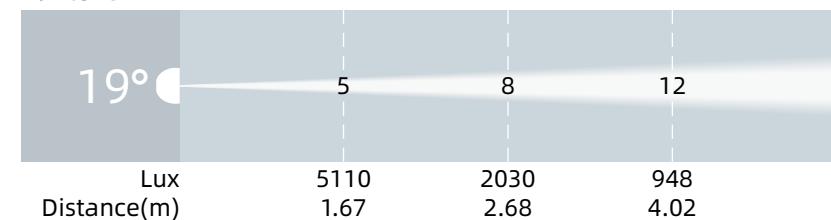
Threaded lens



14° lens



19° lens



26° lens



36° lens



50° lens



70° lens



● Other effect function

Fast electronic strobe: 1~25Hz

● Other features and functions

Weight: 10 KG

Flight case size: 58.5 × 37.5 × 37.5 cm

N.W: 18.3 KG

4. Packaging and transportation

4.1 Disassemble packaging



Notice: After receiving the fixture, please unpack and check for any damage caused by transportation. If there is any damage caused by transportation, please do not use this fixture and contact the local technical personnel or manufacturer as soon as possible.

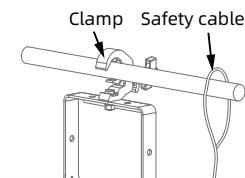
4.2 Equipment packaging

- 1). Disconnect the power supply before packaging the lighting fixtures to allow them to cool completely;
- 2). Flight cases can only be stacked in two layers and are not allowed to be reversed.

5. Installation Requirements Explanation

5.1 Clamp install

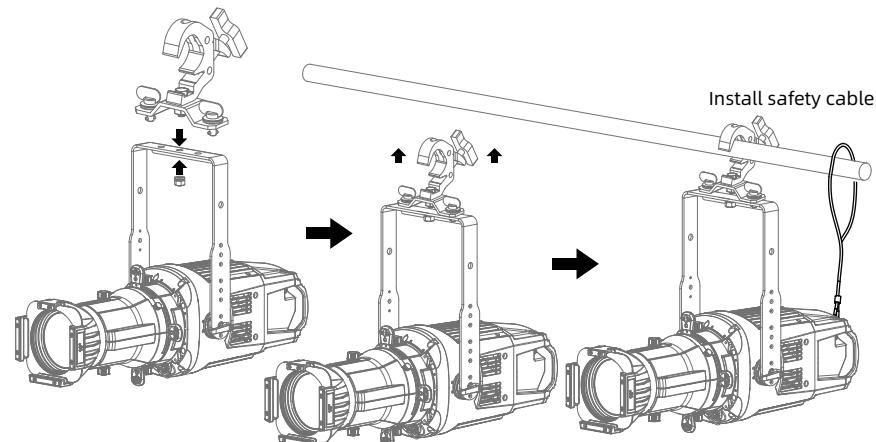
The lighting fixtures can be installed on the stage or on any direction of the truss, and the clamp can be quickly and easily locked onto the truss.

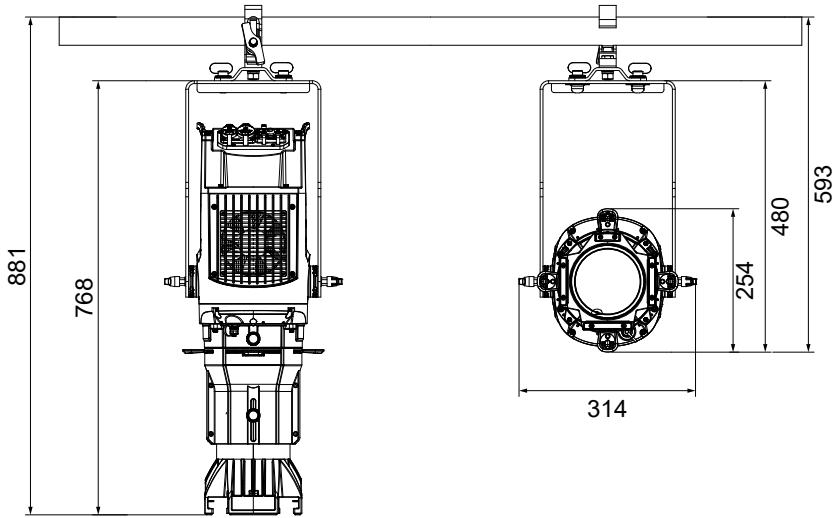


Warning !

Fixture can be used to fix the equipment, and a safety rope must be connected to the safety hook. Note that it cannot be connected to the handle.

Installation of clamps and safety cable

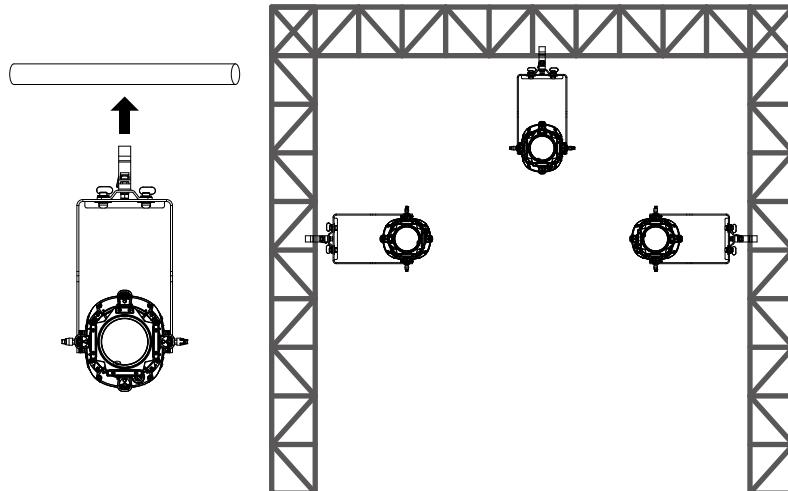




5.2 Equipment installation

- 1). Before installation, it is necessary to verify that the lamp hook and safety rope are not damaged, and that the installation object can withstand 6 times the total weight of the lamp and cable accessories;
- 2). The clamp is installed on the handle. Insert the clamp into the handle mounting hole horizontally and tighten it with bolts (the shape of clamp shall be subject to the actual object)..

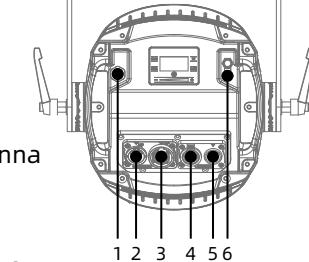
5.3 Hanging Installation Diagram



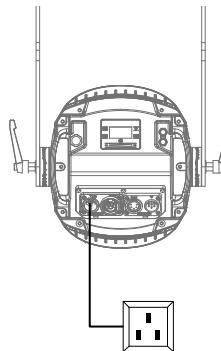
6. Power、Signal connect

6.1 Power and signal socket

1. Breathable valve	2. Power input
3. Power output	4. 3Pin XLR female
5. 3Pin XLR male	6. Waterproof antenna



6.2 Power connect



Connection method:

L(live wire) - brown wire
E(Ground wire) - yellow/green dual color line
N(Zero Line) - Blue Line

When connecting the power supply, please note that the voltage and frequency of the power supply must match the voltage and frequency marked on the light fixture. When multiple fixtures are used simultaneously, it is recommended to connect the power supply of each fixture separately, so that each fixture can be individually controlled for power on/off.

Attention: When connecting the power supply, the ground wire (yellow/green dual color wire) must be safely grounded and comply with all relevant electrical installation standards.

This product uses Powercon In/Out to connect power cords. Due to power limitations, a 2 square meter power cord can carry up to 6 products at 220V and 2 product at 110V.



Waining !

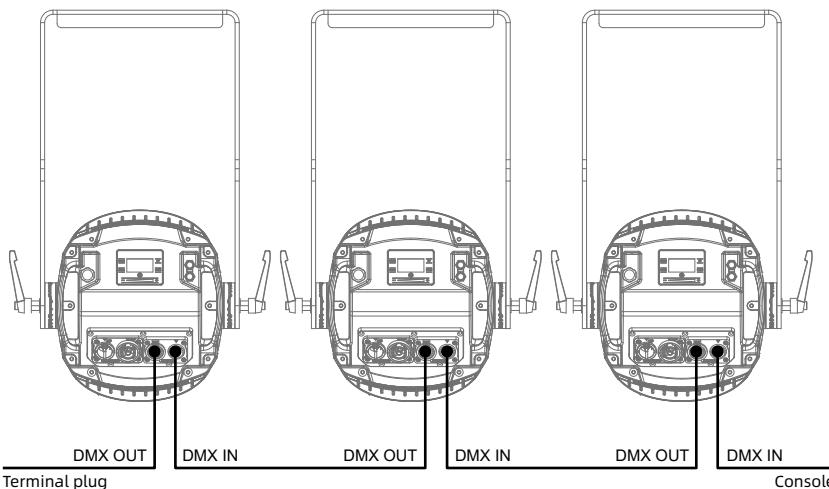
- Do not connect too many fixtures or overload a single power cord;
- Do not use power cords with damaged insulation layers, and do not place power cords on other wires;
- When the fixture is not in use or cleaned, please unplug the power cord; Do not forcefully unplug or drag the power cord directly.

6.3 Signal connect

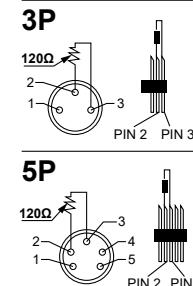


The lighting fixtures are equipped with standard DMX XLR and RJ-45

input and output sockets. Please use DMX512 shielded twisted pair signal cables or Category 5 or above network twisted pair cables for connection. The typical connection distance for DMX signal lines is 150 meters. When transmitting signals over long distances, a DMX512 signal amplifier must be added.



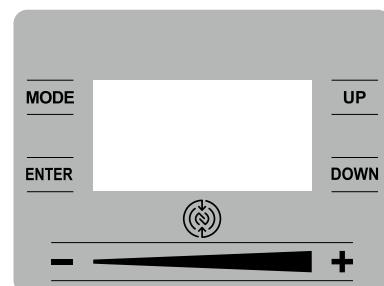
Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on the last 3 or 5 pin socket of each connected lamp output. (Weld a 4/1W, 120 Ω resistor between the 2 and 3 pins of a 3 or 5 core pin XLR plug).



7. Control panel

7.1 Panel Introduction

- Adopting a OLED display screen;
- Press the MODE key to view or modify the lighting function settings, and press the UP, DOWN, LEFT, and RIGHT keys to select the function menu;
- Press the ENTER key to confirm your selected function menu, which will take you to the corresponding sub menu in the menu. Each menu item represents a specific function of the lighting fixture (as shown in the table below);
- Press the ENTER key to save your modifications or enter a submenu, and press the UP or DOWN key to modify values (increase or decrease values); Press the MODE key to return to the previous menu or exit.



- Press the MODE key to return to the previous menu or exit;
- When you enter the Touch Bar Mode mode, the bottom plus and minus keys and the slider adjust the values.

7.2. System menu

Note: The gray color block is the default setting value

Update	XXCH XXXX	
Wait..	ADDR:001	
SOFTWARE	V1.01	
CKC	Console	
Receive	XXCH XXXX ADDR:001	
Touch Bar Mode	Disabled	For use when running fixture in DMX mode
	Dimmer/Gobo	For use when running fixture in dimmer mode
	Int CCT Grn	For use when running fixture in CCT mode with touch bar control
	Int Color Sat	For use when running fixture in color mode with touch bar control
	Int x,y	For use when running fixture in x,y mode with encoder control
	Manual Control	For use when running fixture in manual control mode with touch bar control
DMX Address	001 - 512	
DMX	1CH Dimmer	
	4CH Dimmer / CCT	
	6CH Dim/CCT/Clr	
	10CH RGBMA	
	11CH Standard	
	19CH Extended	
	9CH CMY	
	15CH CMY Extended	
Gobo Rotator	13CH x, y Extended	
	On (+2 DMX) / Off	
	Hold Last	保持
	Fade to Black	黑场
No DMX Status	Standalone	运行自动模式
	Dimmer	000% - 100%
Control	Red	0- 255
	Green	0- 255
	Blue	0- 255
	Mint	0- 255
	Amber	0- 255
	CCT	2400K - 8500K (Default = 6000K)
	Green Shift	-100% ~ +100% (Default = 0)
	Virtual Color	See Color Macros
	Gobo	0- 255

Master	On / Off
Slave	On / Off
Self Test	All
	Dimmer
	Color
	Gobo
Dim Modes	Standard
	Stage
	TV
	Architectural
	Theatre
	Stage 2
	Dim Speed 0s - 10s (Default = 0.1s)
Dim to Warm	On / Off
Dim Curves	Linear
	Square
	Square Inverse
	S-Curve
CCT Mode	Constant Mode
	Max Mode
LED Refresh Rate	900Hz - 1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz (Default = 1200 Hz)
LED Power Limit	50%
	60%
	70%
	80%
	90%
	100%
Fan Mode	Auto
	High
	Silent
Display	Screen Delay 10s - 5min (Default = 1 min)
	Screen Lock ON1, OFF, ON
	Rotate Display Yes / No / Auto
Reset Defaults	Yes / No
Info	Current Run Time
	Total Run Time
	Last Run Time
	Current
	Max Resettable
Humidity	xx% RH
DMX Values	Red
	Green
	...
Product IDs	RDM UID xxxxxxxx...

		Error Logs	Fixture Errors	None
		Software Version	V1.01	
Service	Calibration	Red 000 - 255		
		Green 000 - 255		
		Blue 000 - 255		
		Mint 000 - 255		
		Amber 000 - 255		
		Gobo Rotator 000 - 255		
	CCT Calibration	Reset Last Run Yes / No		
		Reset Error Logs Yes / No		
		Red 000 - 255		
		Green 000 - 255		
		Blue 000 - 255		
		Mint 000 - 255		
		Amber 000 - 255		

8. DMX channel table:

CH Mode										Value	Function
1	4	6	10	11	19	9	15	13			
1	1	1		1	1	1	1	1	000-255	Dimmer Intensity 0 → 100%	
									Shutter/Strobe	Intensity 0 → 100%	
									0-31	Shutter closed	
									32-63	No function (shutter open)	
									64-95	Strobe effect slow to fast	
									96-127	No function (shutter open)	
									128-159	Pulse-effect in sequences	
									160-191	No function (shutter open)	
									192-223	Random strobe effect slow to fast	
									224-255	No function (shutter open)	
									Red	Intensity 0 → 100%	
									1	4	4
									0-255		
									2	5	
									0-255	Red Fine	
											Fine Adjustment
									3	5	6
									0-255	Green	
											0 → 100%
									4	7	
									0-255	Green Fine	
											Fine Adjustment
									5	6	8
									0-255	Blue	
											0 → 100%
									6	9	
									0-255	Blue Fine	
											Fine Adjustment
									7	7	10
									0-255	Mint	
											0 → 100%

		8		11			0-255	Mint Fine
								Fine Adjustment
		9	8	12			0-255	Amber
								0 → 100%
		10		13			0-255	Amber Fine
					4	4	0-255	Fine Adjustment
								Cyan
								0 → 100%
						5	0-255	Cyan Fine
								Fine Adjustment
					5	6	0-255	Magenta
								0 → 100%
						7	0-255	Magenta Fine
								Fine Adjustment
					6	8	0-255	Yellow
								0 → 100%
						9	0-255	Yellow Fine
								Fine Adjustment
						4	0-255	X Coordinate
								0 → 100%
						5	0-255	X Coordinate Fine
								Fine Adjustment
						6	0-255	Y Coordinate
								0 → 100%
						7	0-255	Y Coordinate Fine
								Fine Adjustment
								CCT Presets
		4		9		7		0-23 Open
								24-85 2400K → 8500K (See Sheet)
								86-255 8500K
								Variable CCT
		3			14		10	0-23 Open
								24-255 2400K → 8500K
								Variable CCT Fine
		4			15		11	0-255 Fine Adjustment
								Green Shift
								0 Idle
						16		1-127 Full Minus Green to Neutral
								128 Neutral White
								129-255 Neutral to Full Plus Green
								Color
								0 Open
								1-179 Virtual Swatch Book (See Table)
								Color Scroll
								180-201 Clockwise Fast → Slow

		5		10	17	8	13	11	202-207 Stop
									208-229 Counter-clockwise Slow → Fast
									230-234 Open
									Random Slots
									235-239 Fast
									240-244 Medium
									245-249 Slow
									250-255 Open
									Dim Modes
									0-20 Standard
									21-40 Stage
									41-60 TV
									61-80 Architectural
									81-100 Theatre
									101-120 Stage 2
									Dimmer Delay Time
									121 0s
									122 0.1s
									123 0.2s
									124 0.3s
									125 0.4s
									126 0.5s
									127 0.6s
									128 0.7s
									129 0.8s
									130 0.9s
									131 1.0s
									132 1.5s
									133 2.0s
									134 3.0s
									135 4.0s
									136 5.0s
									137 6.0s
									138 7.0s
									139 8.0s
									140 9.0s
									141 10s
									142-149 Idle
									Dim to Warm
									150-154 DTW On
									155-159 DTW Off
									160-255 Idle
									Control
									0-29 Idle
									30-39 Fan Mode Auto

40-49	Fan Mode Silent
50-59	Fan Mode High
60-69	Idle
	Reset
70-79	Gobo Rotator
80-99	Idle
	Refresh Rate (Hz)
100	900
101	910
102	920
103	930
104	940
105	950
106	960
107	970
108	980
109	990
110	1000
111	1010
112	1020
113	1030
114	1040
115	1050
116	1060
117	1070
118	1080
119	1090
120	1100
121	1110
122	1120
123	1130
124	1140
125	1150
126	1160
127	1170
128	1180
129	1190
130	1200
131	1210
132	1220
133	1230
134	1240
135	1250
136	1260
137	1270
138	1280

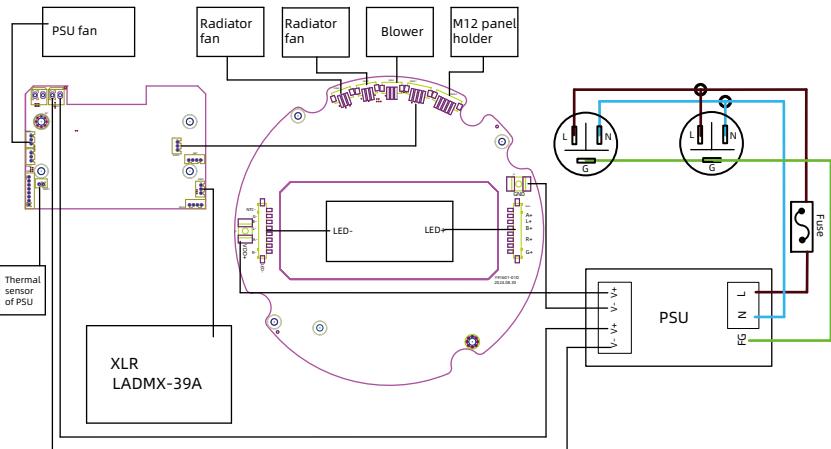
6	11	19	9	15	13	139	1290
						140	1300
						141	1310
						142	1320
						143	1330
						144	1340
						145	1350
						146	1360
						147	1370
						148	1380
						149	1390
						150	1400
						151	1410
						152	1420
						153	1430
						154	1440
						155	1450
						156	1460
						157	1470
						158	1480
						159	1490
						160	1500
						161	2500
						162	4000
						163	5000
						164	6000
						165	10000
						166	15000
						167	20000
						168	25000
						169-200	Idle
							Dimmer Curves
						201-210	Dimmer Curve: Linear (Default)
						211-220	Dimmer Curve: Square
						221-230	Dimmer Curve: Inverse Square
						231-240	Dimmer Curve: S-Curve
						241-255	Idle
							Gobo Indexing & Rotation
						0- 127	Gobo Indexing
						128-189	Clockwise Gobo Rotation, Fast → Slow
						190-193	Stop
						194-255	Counter-clockwise Gobo Rotation, Slow → Fast
						3	Gobo Fine Indexing
						6	Fine Adjustment
						8	
						12	
						13	
						21	
						11	
						17	
						15	
						0-255	

Marcros sheet

Value	Filter Number	Name
1	7	pale yellow
2	103	straw
3	151	gold tint
4	100	spring yellow
5	10	medium yellow
6	101	yellow
7	104	deep amber
8	15	deep straw
9	179	loving amber
10	21	gold amber
11	105	orange
12	158	deep orange
13	22	dark amber
14	778	millenium gold
15	135	deep golden amber
16	24	scarlet
17	106	primary red
18	26	bright red
19	27	medium red
20	19	fire
21	157	pink
22	36	medium pink
23	111	dark pink
24	128	bright pink
25	148	bright rose
26	332	special rose pink
27	793	vanity fair
28	113	magenta
29	46	dark magenta
30	48	rose purple
31	126	mauve

Value	Filter Number	Name
32	49	medium purple
33	58	lavender
34	199	palace blue
35	119	dark blue
36	132	medium blue
37	120	deep blue
38	165	daylight blue
39	161	slate blue
40	118	light blue
41	68	sky blue
42	143	pale navy blue
43	131	marine blue
44	115	peacock blue
45	172	lagoon blue
46	116	medium blue green
47	90	dark yellow green
48	139	primary green
49	122	fern green
50	89	moss green
51	124	dark green
52	88	lime green
53	138	pale green
54	203	Quarter CT Blue
55	202	Half CT Blue
56	201	FULL CT Blue
57	200	double CT Blue
58	206	Quarter CT Orange
59	205	Half CT Orange
60	204	FULL CT Orange
61-179		No function

9. Control circuit diagram



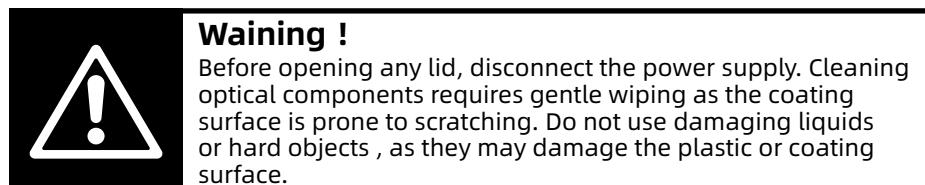
10. Regular maintenance

10.1 Cleaning and maintenance

Lighting fixtures require daily cleaning and maintenance, and their service life largely depends on the operating environment and standards. If you have any questions, please consult our technical engineers for advice. Maintenance and repair work not included in this book should be entrusted to our qualified technical engineers.



Attention! Damage caused by dust, e-liquid, or other reasons, as well as abnormal use, is not covered by the warranty.



- When the lens is cracked or otherwise damaged, it should be replaced in a timely manner;
- When the brightness significantly decreases, the LED may have reached its expiration date and should be replaced in a timely manner;
- When the fixture cannot start, please check if the fixture power fuse is blown. If it is blown, a fuse of the same specification must be used for installation;
- The fixture is equipped with a temperature protection device. When the temperature is too high, the protection device will automatically reduce power.

- When this situation occurs, please check whether the fan is running normally, whether the fan and fan mesh are clogged with dust, identify the fault and repair it before starting the fixture. Please note that only qualified technicians are allowed to carry out maintenance work;
- To maintain smooth movement of the focusing lens, it is recommended to lubricate the guide rail of the focusing lens every three months. Excellent and high-temperature resistant lubricating grease should be used, and excessive grease should not be used as it can easily dirty adjacent components.

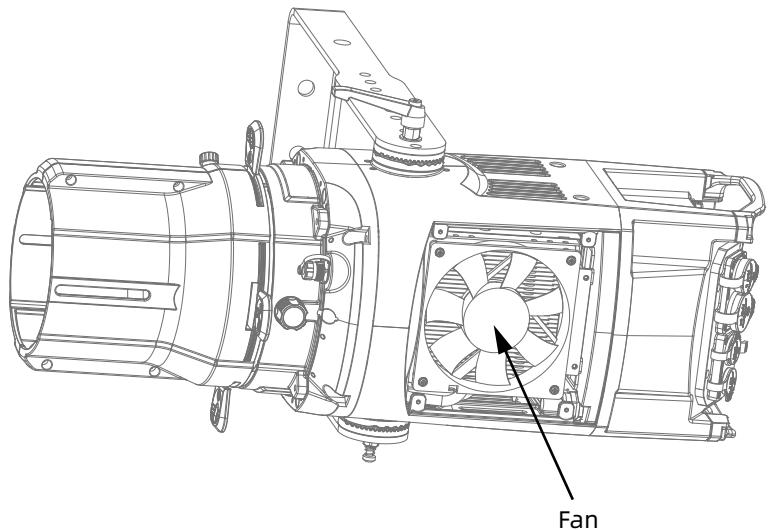
10.2 Fault analysis and handling

Fault description	Analysis	Processing method
No action after power on	Check if the power switch is turned on	Turn on
	Check if the fuse is blown	Replace
	Check if the output of PSU is normal	Detecting voltage
	Check if poor contact in the internal circuit	Reconnect
Uncontrolled lighting fixtures	Check if the DMX signal cable is connected correctly (If there is no signal, the display screen will flash)	Reconnect or replace
	Check if the address code is correct and if the DMX mode of the lighting fixture matches the settings	Reconfirm
	The main control PCB is damaged	Replace
Not bright	LED aging or damage	Replace
	Power PCB malfunction	Check/ Replace
	Loose or poor contact of the circuit	Reconnect
	PSU malfunction	Replace
Automatically turn off or dim the lights	LED aging	Replace
	Damaged cooling fan or abnormal wind speed	Replace
	Check the power output of the fan	Check/ Replace
	The temperature control switch is damaged	Replace

Weak light efficiency and uneven light spot	LED aging	Replace
	LED not centered with the lens	Adjust LED
	The optical mirror has accumulated dust or stains	Clean
	The optical mirror is damaged	Replace
Impure color	Weakening of light efficiency	Replace led PCB



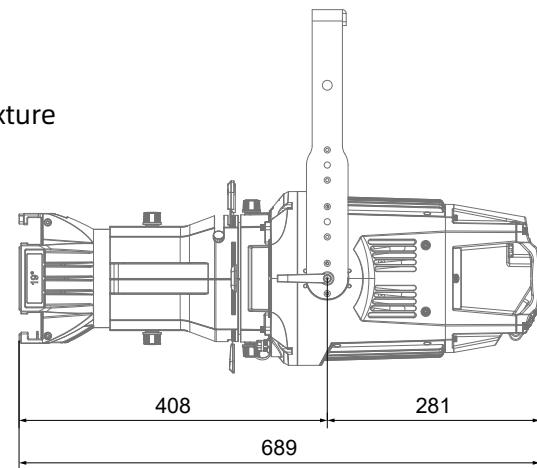
Attention! The above analysis is for abnormal reference only. Non professionals are not allowed to disassemble and repair the machine



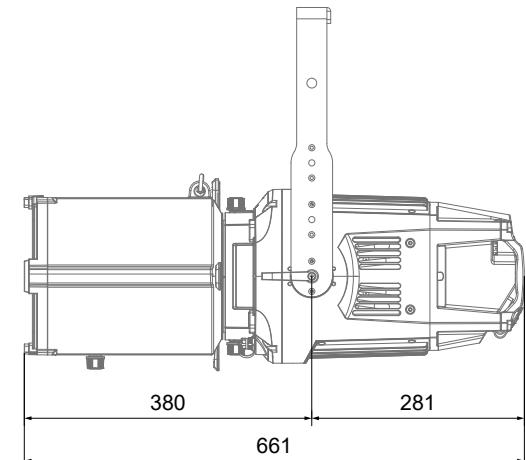
Appendix

Dimension of the whole fixture
after installing the lens

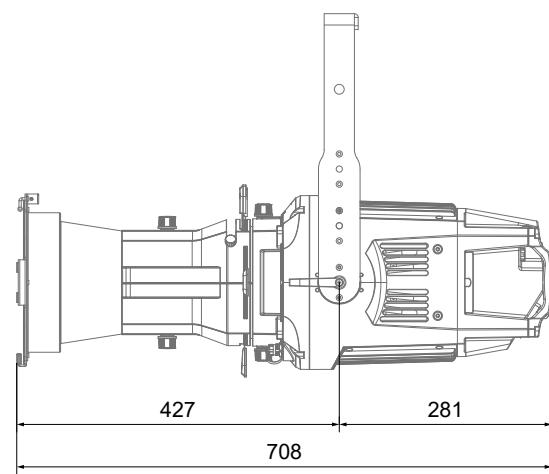
19°, 26°, 36°, 50° lens



Focus thread lens



14° lens



70° lens

