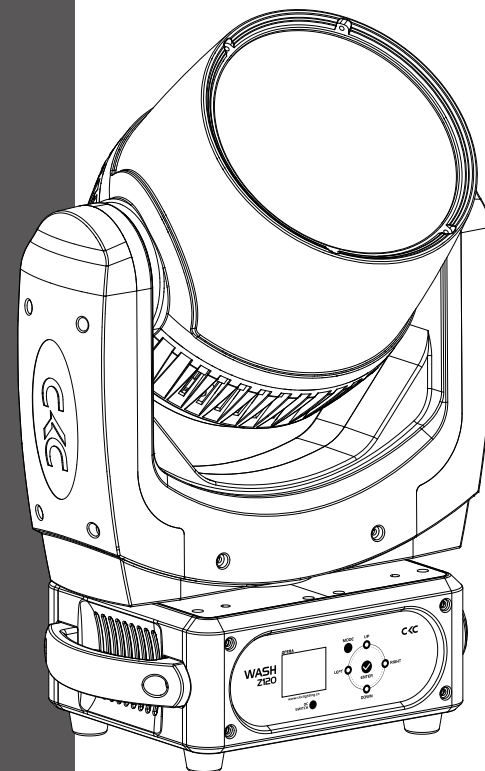




WASH Z120



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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 IP20 and is suitable for indoor use;
- 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.



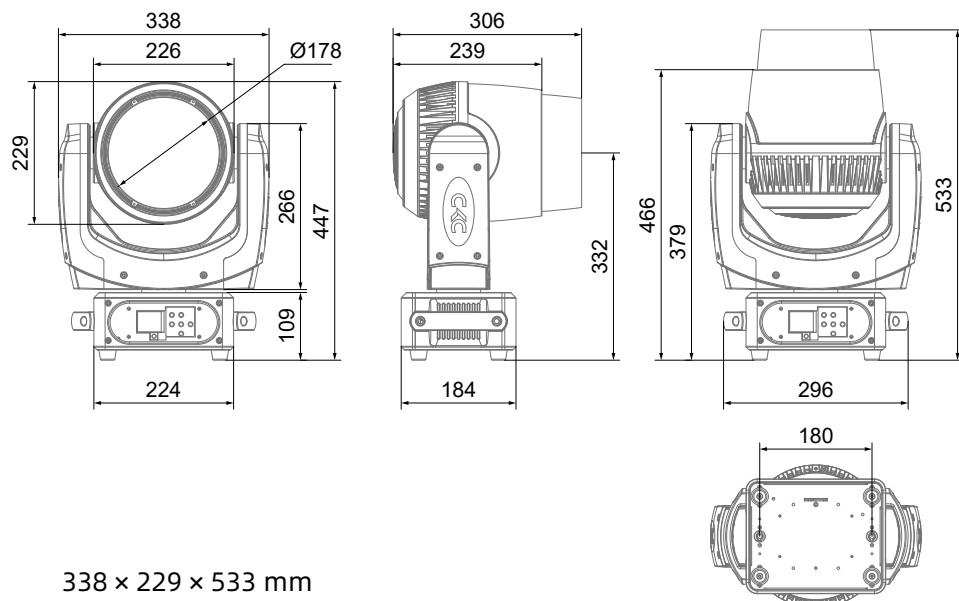
- The lighting fixtures work normally at -20 °C to 45 °C . When replacing any components or accessories in the equipment, ensure that the power is disconnected to prevent electric shock and injury;
- The maximum surface temperature of the lamp during operation can reach 65 °C , please do not touch it 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.

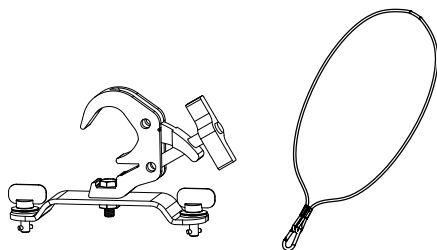
2. Product Introduction

2.1 Exterior dimensions of lighting fixtures



2.2 Packaging accessories

Name	QTY
Omega bracket	1 PCS
Clamp	1 PCS
Safety cable	1 PCS



3. Main technical parameters of the equipment

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

● Electrical parameter

Rated input voltage: AC 100V-240V~ 50Hz/60Hz
 Rated power of the entire fixture: 161 W
 Power factor: 0.99F
 Input Current: 0.747A 220V

● Source lifespan

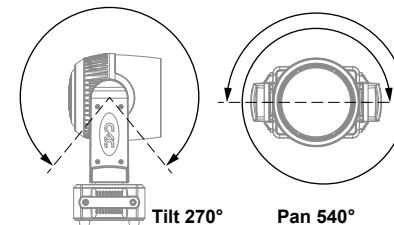
>20000 hours

● Optical system

LED source: 120W RGBW LED
 Beam angel: 7 ~ 55°
 Field angle: 14 ~ 57°

● Pan/Tilt

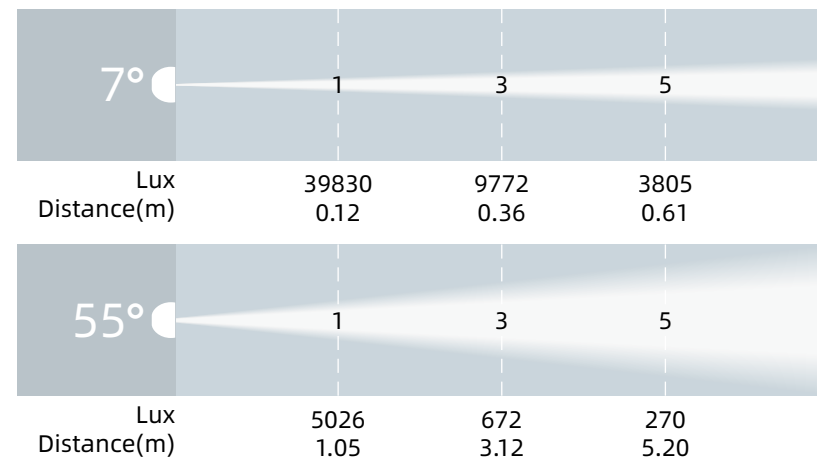
Pan scan:
 540° or 630° 8-bit/16bit recision scanning
Tilt scan:
 270° 8-bit/16bit precision scanning



● Control and programming

Control channel: 15CH/16CH/17CH/19CH
 Protocol: DMX512, RDM
 Data connect: 3 pin signal in/out , 5 pin signal in/out

● Illumination draw



● Other effect function

Fast electronic strobe: 1~25Hz Dim curve: 5 kinds

● Other features and functions

Weight: 10 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.

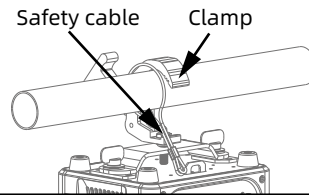
4.2 Equipment packaging

- 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

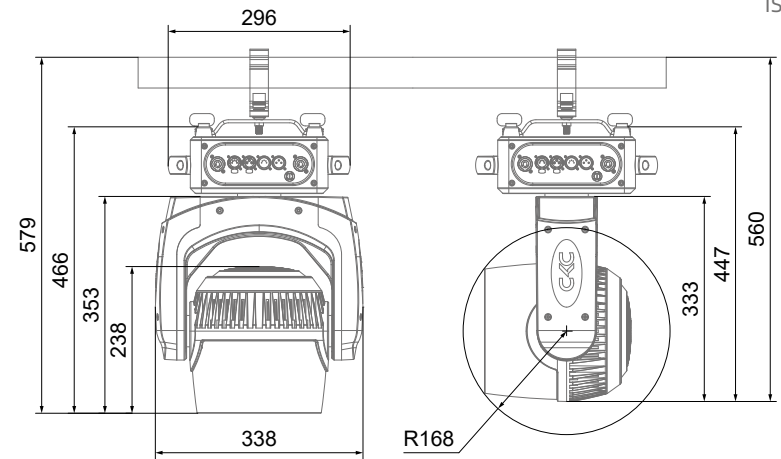
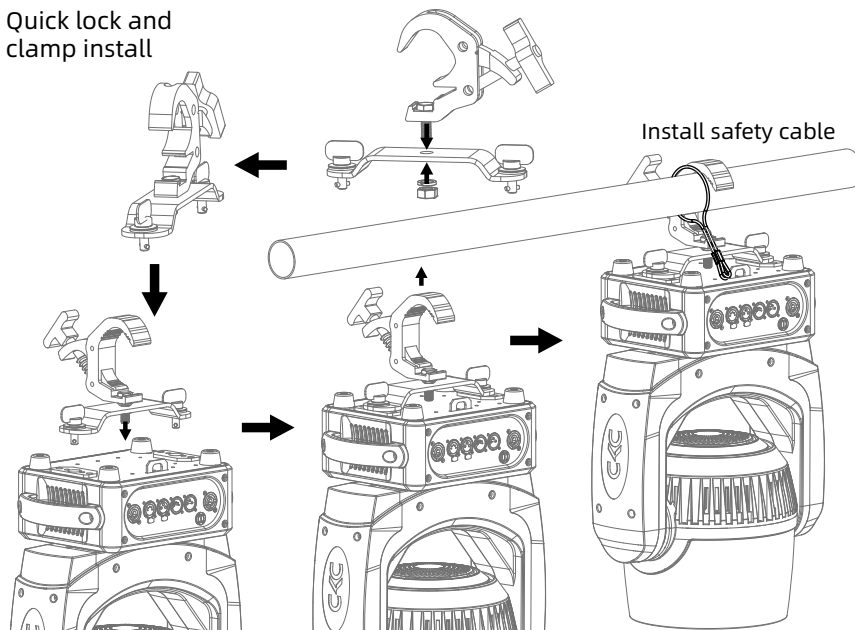
The lighting fixtures can be installed on the stage or on any direction of the truss, and the clamp can be quickly and easily locked onto the truss.



Warning !

The lighting fixtures are divided into two versions: integrated light hook and normal. When using the integrated light hook version, the clamp is broken up and locked onto the truss. The normal version must use 2 clamps to secure the device and fasten it with a 1/4 rotation. Regardless of the version, one safety rope must be added and connected to the base hole, but be careful not to connect it to the handling handle.

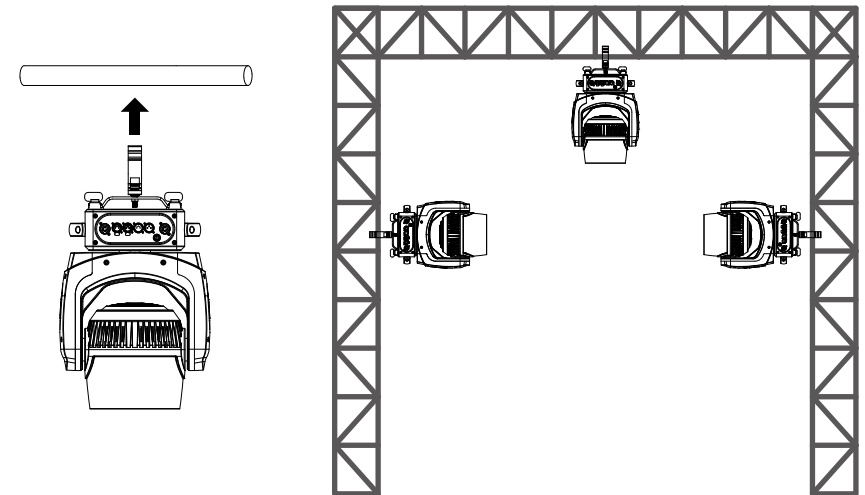
Quick lock and clamp install



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). Install the quick lock clamp on the base of the lamp body. Insert the clamp horizontally into the mounting hole of the base, rotate it clockwise 1/4 turn to lock it, and install the second clamp using the same method (the shape of the clamp should be based on the actual product).

5.3 Hanging Installation Diagram

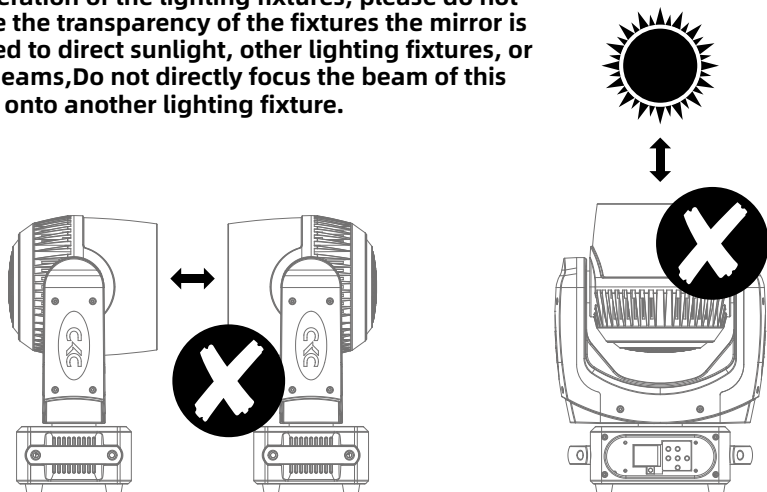




Reminder: External beam source may damage internal lighting fixtures

External beams from direct sunlight, lighting fixtures, and lasers that are directly focused onto the casing or penetrate the lens to illuminate the interior of the fixture may cause damage to the components. This is a common issue with all lighting fixtures and does not occur alone with CKC products. Although there is no way to completely prevent this problem from occurring, following the following guidelines can prevent potential damage.

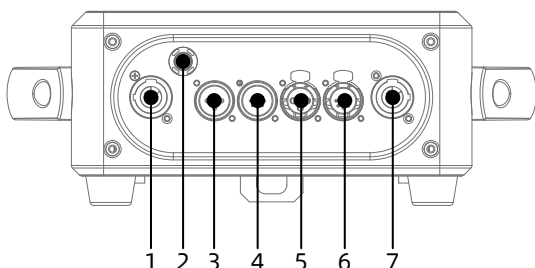
When unpacking, installing, using, and stopping the operation of the lighting fixtures, please do not expose the transparency of the fixtures the mirror is exposed to direct sunlight, other lighting fixtures, or laser beams, Do not directly focus the beam of this device onto another lighting fixture.



6. Power、Signal connect

6.1 Power and signal socket

1. Power input
2. Fuse holder
3. 3 Pin DMX input
4. 5 Pin DMX input
5. 3 Pin DMX output
6. 5 Pin DMX output
7. Power output



6.2 Power connect

Connection method:

L(live wire) - brown wire

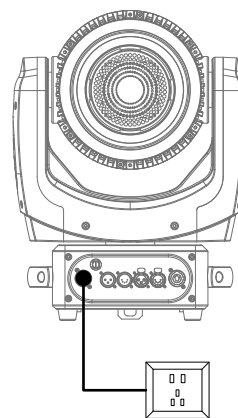
E(Ground wire) - yellow/green dual color line

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.



Power In

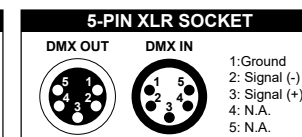
This product uses Powercon In/Out to connect power cords. Due to power limitations, a 2 square meter power cord can carry up to 3 products at 220V and 1 product at 110V.



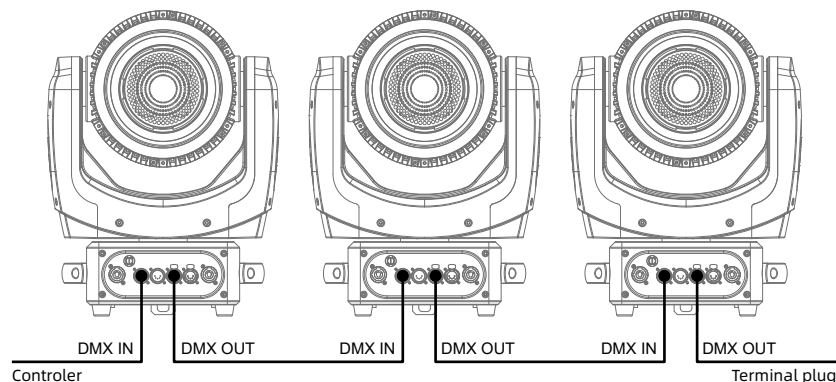
Warning !

- 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.

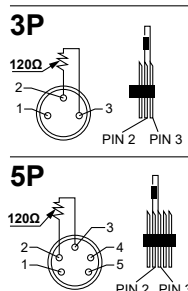
6.3 Signal connect



The lighting fixtures are equipped with standard DMX XLR input and output sockets. Please use DMX512 shielded twisted pair signal cables or Category 3/5 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.

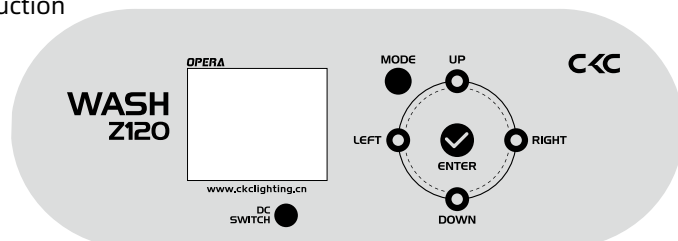


Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on the last 3 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 1.8 "LCD display screen, the operation panel is equipped with a rechargeable battery, which can enter the menu to set address codes and make other settings without powering on;
- 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.

7.2. System menu

Note: The gray color block is the default setting value

Software Update Please Wait... Motor Reset Please Wait...		
Receive	Set Address	001~XXX
User Mode	User Mode	15 CH RGBW 16CH HSI 17CH sRGBI 19CH RGBW User A User B User C
	Edit A Edit B Edit C	Max Chan PAN :
	Status	Remote Add NoDmx Mode Pan Invert Tilt Invert Pan Degree Feedback Move.Spd Stand by
Function	Fan Set	Head Fan Auto High Low
	LCD.Set	Backlight FlipDisplay Key Lock DispFlash
	Dim Mode	Standard Stage TV Architectur Theatre
	Temp. C/F	Celsius Fahrenheit
	Init.Effect	PAN =XXX
	Disp.Set	Chan.Value Slave Set Auto.Prog
	Dim Curve	Linear, Square, I-Square, S-Curve
	Frequen	900Hz/1000Hz/1100Hz/1200Hz/1300Hz/1400Hz/1500Hz/2500Hz/4000Hz/5000Hz/10KHz/15KHz/20KHz/25KHz
	DFSE	ON/OFF

Info	Time.Info	CurrentTime (Hours) Total Time (Hours) Last Time (Hours) Timer PIN (ON/OFF) Clear Last (Password=050)	
	Temp. Info	Head.Temp	
	Error. Info	NONE/Pan,Tilt...	
	Model. Info	Wash Z120	
	Software.V	1U01 V1.02 2U01 V1.02 3U01 V1.02	
Test	Reset.M		
	Test.Chan	PAN	
	Panel.Ctrl.	PAN =XXX :	
	Calibrate	-Password 050- PAN :	
Program	Select .Pro	Pro. Part 1 = Program 1 ~ 9 Program 1 Pro. Part 2 = Program 1 ~ 9 Program 2 Pro. Part 3 = Program 1 ~ 9 Program 3	
	Edit. Pro	Program 1 : Program 9	Program Test Step 01=SCxxx Step 64=SCxxx
	Edit.Sce	Edit Scene 001 ~ Edit Scene 250	Pan,Tilt,..... Fade Time Secne Time Input By Outside
	Sce.Input	XX~XX	

8. DMX channel table:

Mode/Channel				Value	Function
15CH	16CH	17CH	19CH		
1	1	1	1	0-255	PAN Movement 8bit Pan Movement By 630/540
2	2	2	2	0-255	PAN Fine16bit Finecontrol of Pan movement
3	3	3	3	0-255	TILT Movement 8bit Tilt Movement
4	4	4	4	0-255	Tilt Fine16bit Finecontrol of Tilt movement
5		6	5	0-255	ALL Red: 0~100%
6		7	6	0-255	ALL Green: 0~100%

7		8	7	0-255	ALL Blue: 0~100%
8			8	0-255	ALL White: 0~100%
9	5	5	10		Shutter, strobe
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
	6				Hue
				0	No function
				1-255	Hue 0 to 100%
	7				Saturation
				0	No function
				1-255	Saturation 0 to 100%
	8	9		0-255	Intensity Intensity 0 to 100%
	9	10	9		Color Macros
				0	No function
				1-255	See Color Macro Chart.
10			11	0-255	Dimmer Intensity 0 to 100%
11			12	0-255	Dimmer Fine Intensity 0 to 100%
12	10	11	13	0-255	ZOOM: 0~100%
	11	12	14		Auto programs:
				1~20	Auto program1
				21~40	Auto program2
				41~60	Auto program3
				61~80	Auto program4
				81~100	Auto program5
				101~120	Auto program6
				121~140	Auto program7
				141~160	Auto program8
				161~180	Auto program9
				181~200	Auto program10
				201~220	Auto program11
				221~240	Auto program12
				241~250	Auto program13

				251~255	Gradient effect
	12	13	15	0-255	Auto programs speed: Slow to Fast speed
	13	14	16	0-255	Auto Programs Fade Slow to Fast speed
13	14	15	17		Dim Modes
				0-20	Standard
				21-40	Stage
				41-60	TV
				61-80	Architectural
				81-100	Theatre
				101-255	Default to Unit Setting
14	15	16	18		Speed pan/tilt movement
				0-225	max to min speed
				226-235	blackout by movement
				236-255	no function
					Lamp on/off, reset, internal programs
				0-10	Normal (Default LED Refresh Rate 1200 Hz)
				11	900 Hz LED Refresh Rate
				12	910 Hz LED Refresh Rate
				13	920 Hz LED Refresh Rate
				14	930 Hz LED Refresh Rate
				15	940 Hz LED Refresh Rate
				16	950 Hz LED Refresh Rate
				17	960 Hz LED Refresh Rate
				18	970 Hz LED Refresh Rate
				19	980 Hz LED Refresh Rate
				20	990 Hz LED Refresh Rate
				21	1000 Hz LED Refresh Rate
				22	1010 Hz LED Refresh Rate
				23	1020 Hz LED Refresh Rate
				24	1030 Hz LED Refresh Rate
				25	1040 Hz LED Refresh Rate
				26	1050 Hz LED Refresh Rate
				27	1060 Hz LED Refresh Rate
				28	1070 Hz LED Refresh Rate
				29	1080 Hz LED Refresh Rate
				30	1090 Hz LED Refresh Rate
				31	1100 Hz LED Refresh Rate
				32	1110 Hz LED Refresh Rate
				33	1120 Hz LED Refresh Rate
				34	1130 Hz LED Refresh Rate
				35	1140 Hz LED Refresh Rate

15 16 17 19

36	1150 Hz LED Refresh Rate
37	1160 Hz LED Refresh Rate
38	1170 Hz LED Refresh Rate
39	1180 Hz LED Refresh Rate
40	1190 Hz LED Refresh Rate
41	1210 Hz LED Refresh Rate
42	1220 Hz LED Refresh Rate
43	1230 Hz LED Refresh Rate
44	1240 Hz LED Refresh Rate
45	1250 Hz LED Refresh Rate
46	1260 Hz LED Refresh Rate
47	1270 Hz LED Refresh Rate
48	1280 Hz LED Refresh Rate
49	1290 Hz LED Refresh Rate
50	1300 Hz LED Refresh Rate
51	1310 Hz LED Refresh Rate
52	1320 Hz LED Refresh Rate
53	1330 Hz LED Refresh Rate
54	1340 Hz LED Refresh Rate
55	1350 Hz LED Refresh Rate
56	1360 Hz LED Refresh Rate
57	1370 Hz LED Refresh Rate
58	1380 Hz LED Refresh Rate
59	1390 Hz LED Refresh Rate
60	1400 Hz LED Refresh Rate
61	1410 Hz LED Refresh Rate
62	1420 Hz LED Refresh Rate
63	1430 Hz LED Refresh Rate
64	1440 Hz LED Refresh Rate
65	1450 Hz LED Refresh Rate
66	1460 Hz LED Refresh Rate
67	1470 Hz LED Refresh Rate
68	1480 Hz LED Refresh Rate
69	1490 Hz LED Refresh Rate
70	1500 Hz LED Refresh Rate
71	2500 Hz LED Refresh Rate
72	4000 Hz LED Refresh Rate
73	5000 Hz LED Refresh Rate
74	6000 Hz LED Refresh Rate
75	10000 Hz LED Refresh Rate
76	15000 Hz LED Refresh Rate
77	20000 Hz LED Refresh Rate
78	25000 Hz LED Refresh Rate

				79	Disable LED Refresh Rate
				80-84	All Motor Reset
				85-99	No function
				100-119	Internal program 1 (secne1~8 of EEPROM)
				120-139	Internal program 2 (secne9~16 of EEPROM)
				140-159	Internal program 3 (secne17~24 of EEPROM)
				160-179	Internal program 4 (secne25~32 of EEPROM)
				180-199	Internal program 5 (secne33~40 of EEPROM)
				200-219	Internal program 6 (secne41~48 of EEPROM)
				220-239	Internal program 7 (secne49~56 of EEPROM)
				240-255	no function

Color macro

1,DMXVALUES1-4	2,DMX VALUES 5-8	3,DMX VALUES 9-12	4,DMX VALUES 13-16
Red= 80	Red= 80	Red= 77	Red= 117
Green= 255	Green= 255	Green= 255	Green= 255
Blue= 234	Blue= 164	Blue= 112	Blue= 83
W= 80	W= 80	W= 77	W= 83
5,DMX VALUES 17-20	6,DMX VALUES 21-24	7,DMX VALUES 25-28	8,DMX VALUES 29-32
Red= 160	Red= 223	Red= 255	Red= 255
Green= 255	Green= 255	Green= 243	Green= 200
Blue= 77	Blue= 83	Blue= 77	Blue= 74
W= 77	W= 83	W= 77	W= 74
9,DMX VALUES 33-36	10,DMX VALUES 37-40	11,DMX VALUES 41-44	12,DMX VALUES 45-48
Red= 255	Red= 255	Red= 255	Red= 255
Green= 166	Green= 125	Green= 97	Green= 71
Blue= 77	Blue= 74	Blue= 77	Blue= 77
W= 77	W= 74	W= 74	W= 71
13,DMX VALUES 49-52	14,DMX VALUES 53-56	15,DMX VALUES 57-60	16,DMX VALUES 61-64
Red= 255	Red= 255	Red= 255	Red= 238
Green= 83	Green= 93	Green= 96	Green= 93
Blue= 134	Blue= 182	Blue= 236	Blue= 255
W= 83	W= 93	W= 96	W= 93
17,DMX VALUES 65-68	18,DMX VALUES 69-72	19,DMX VALUES 73-76	20,DMX VALUES 77-80
Red= 196	Red= 150	Red= 100	Red= 77
Green= 87	Green= 90	Green= 77	Green= 100
Blue= 255	Blue= 255	Blue= 255	Blue= 255
W= 87	W= 90	W= 77	W= 77
21,DMX VALUES 81-84	22,DMX VALUES 85-88	23,DMX VALUES 89-92	24,DMX VALUES 93-96
Red= 67	Red= 77	Red= 77	Red= 158
Green= 148	Green= 195	Green= 234	Green= 255
Blue= 255	Blue= 255	Blue= 255	Blue= 144
W= 67	W= 77	W= 77	W= 144

25,DMX VALUES 97-100	26,DMX VALUES 101-104	27,DMX VALUES 105-108	28,DMX VALUES 109-112
Red= 255	Red= 255	Red= 255	Red= 255
Green= 251	Green= 175	Green= 138	Green= 147
Blue= 153	Blue= 147	Blue= 186	Blue= 251
W= 153	W= 147	W= 138	W= 147
29,DMX VALUES 113-116	30,DMX VALUES 117-120	31,DMX VALUES 121-124	32,DMX VALUES 125-128
Red= 151	Red= 151	Red= 138	Red= 255
Green= 138	Green= 138	Green= 169	Green= 255
Blue= 255	Blue= 255	Blue= 255	Blue= 255
W= 138	W= 138	W= 138	W= 255
33,DMX VALUES 129-132	34,DMX VALUES 133-136	35,DMX VALUES 137-140	36,DMX VALUES 141-144
Red= 255	Red= 254	Red= 254	Red= 254
Green= 206	Green= 177	Green= 192	Green= 165
Blue= 143	Blue= 153	Blue= 138	Blue= 98
37,DMX VALUES 145-148	38,DMX VALUES 149-152	39,DMX VALUES 153-156	40,DMX VALUES 157-160
Red= 254	Red= 176	Red= 96	Red= 234
Green= 121	Green= 17	Green= 0	Green= 139
Blue= 0	Blue= 0	Blue= 11	Blue= 171
41,DMX VALUES 161-164	42,DMX VALUES 165-168	43,DMX VALUES 169-172	44,DMX VALUES 173-176
Red= 224	Red= 175	Red= 119	Red= 147
Green= 5	Green= 77	Green= 130	Green= 164
Blue= 97	Blue= 173	Blue= 199	Blue= 212
45,DMX VALUES 177-180	46,DMX VALUES 181-184	47,DMX VALUES 185-188	48,DMX VALUES 189-192
Red= 88	Red= 0	Red= 0	Red= 52
Green= 2	Green= 38	Green= 142	Green= 148
Blue= 163	Blue= 86	Blue= 208	Blue= 209
49,DMX VALUES 193-196	50,DMX VALUES 197-200	51,DMX VALUES 201-204	52,DMX VALUES 205-208
Red= 1	Red= 0	Red= 255	Red= 0
Green= 134	Green= 145	Green= 0	Green= 255
Blue= 201	Blue= 212	Blue= 0	Blue= 0
53,DMX VALUES 209-212	54,DMX VALUES 213-216	55,DMX VALUES 217-220	56,DMX VALUES 221-224
Red= 0	Red= 0	Red= 1	Red= 0
Green= 83	Green= 97	Green= 100	Green= 40
Blue= 115	Blue= 166	Blue= 167	Blue= 86
57,DMX VALUES 225-228	58,DMX VALUES 229-232	59,DMX VALUES 233-236	60,DMX VALUES 237-240
Red= 209	Red= 42	Red= 0	Red= 8
Green= 219	Green= 165	Green= 46	Green= 107
Blue= 182	Blue= 85	Blue= 35	Blue= 222
61,DMX VALUES 241-244	62,DMX VALUES 245-248	63,DMX VALUES 249-252	64,DMX VALUES 253-255
Red= 107	Red= 165	Red= 0	Red= 0
Green= 156	Green= 198	Green= 0	Green= 0
Blue= 231	Blue= 247	Blue= 255	Blue= 0
			W= 255


10.1 Cleaning and maintenance



Before opening any lid, disconnect the power supply. Cleaning optical components requires gentle wiping as the coating surface is prone to scratching. Do not use damaging liquids or hard objects, as they may damage the plastic or coating surface.

- ## 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
Head or base fan stops rotating	Check if the fan leads are installed properly or disconnected	Re connect
	Check if the fan is damaged	Replace
	Check if there are any other interfering objects within the operating range of the fan	Adjust
 Attention! The above analysis is for abnormal reference only. Non professionals are not allowed to disassemble and repair the machine		

