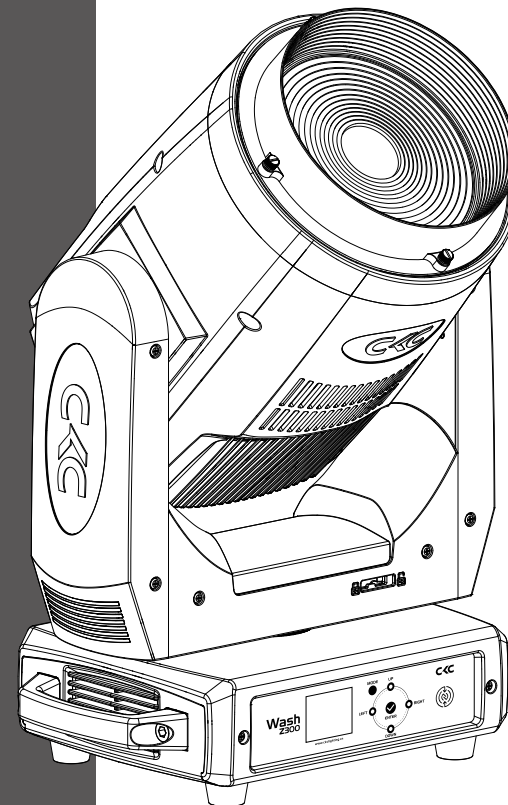




Wash Z300



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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.

CONTENTS

1. Security Warning Information	1
2. Product Introduction	3
2.1 Exterior dimensions	3
2.2 Fixture packaging accessories	3
3. Main technical parameters of the equipment	3
4. Packaging and transportation	5
4.1 Disassemble packaging	5
4.2 Equipment installation	5
5. Installation Requirements Explanation	5
5.1 Clamp installation	5
5.2 Fixture installtion	6
5.3 Hanging Installation Diagram	6
5.4 Snoot Installation Diagram	6
6. Power and signal connection	7
6.1 Power and signal socket	7
6.2 Power Connect	7
6.3 Signal Connect	8
7. Control panel	9
7.1 Panel Introduction	9
7.2 System menu	9
8. DMX control channel table	11
9. Control circuit diagram	15
10. Regular maintenance	16
10.1 Cleaning and maintenance	16
10.2 Fault analysis and handling	16

★ 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.



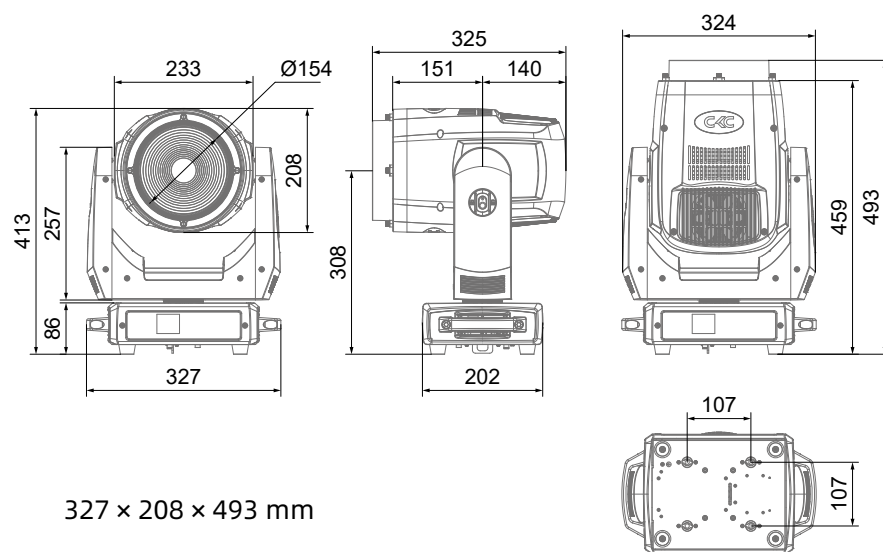
- The lighting fixtures work normally at -20 °C to 45 °C . When replacing any components or accessories in the equipment, ensure that the power is disconnected to prevent electric shock and injury;
- The maximum surface temperature of the lamp during operation can reach 70 °C , please do not touch it 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.

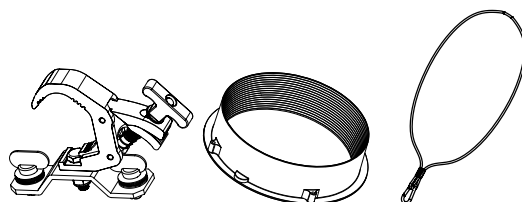
2. Product Introduction

2.1 Exterior dimensions of lighting fixtures



2.2 Packaging accessories

Name	QTY
Omega bracket	2 PCS
Clamp	2 PCS
Snoot	1 PCS
Safety cable	1 PCS



3. Main technical parameters of the equipment

Product execution standards: GB43472-2023、GB/T7000.1-2023、GB/T7000.217-2023

● Electrical parameter

Rated input voltage: AC 100V-240V~ 50Hz/60Hz
 Power: 350W
 Power factor: 0.99F
 Input Current: 1.70A 220V

● Source lifespan

>20000 hours

● Optical system

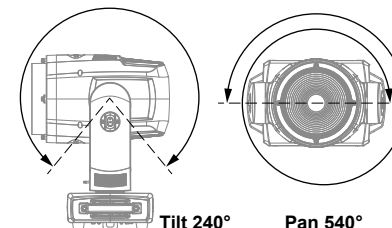
Source: 250W RGBAL LED
 Zoom angel: 7 ~ 56°
 Output luminous flux: 9015 Lm

● Color system

CCT: 1800 ~ 10000 K
 CRI: 92

● Pan/Tilt

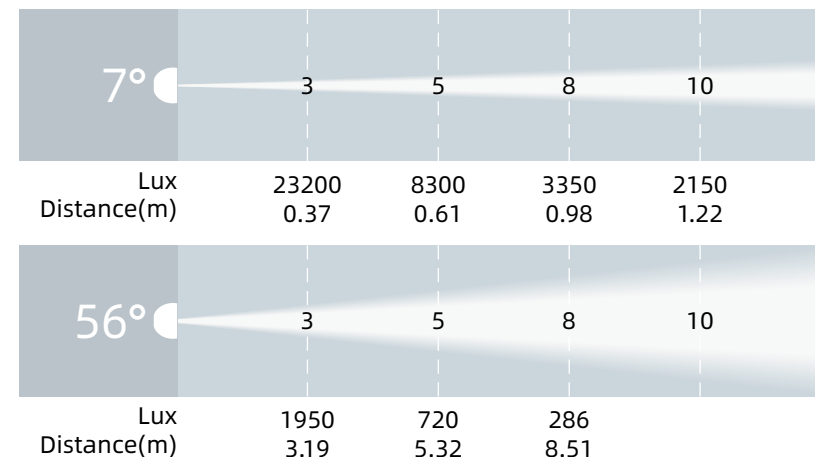
Pan scan:
 540° or 630° 8-bit/16bit recision scanning
Tilt scan:
 240° 8-bit/16bit precision scanning



● Control and programming

Control channel: 19CH/24CH/RGB 20CH/CMY20CH/18CH
 Protocol: DMX512, RDM, ArtNet/sACN
 Data connect: 3/5 pin signal in/out, RJ45 in/out

● Illumination draw



● Other effect function

Fast electronic strobe: 1~25Hz LED refresh frequency: 900Hz-25KHz

● Other features and functions

Weight: 11.3 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.

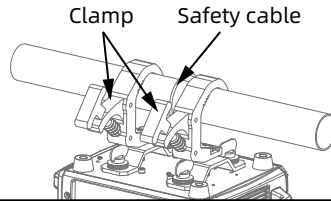
4.2 Equipment packaging

- 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

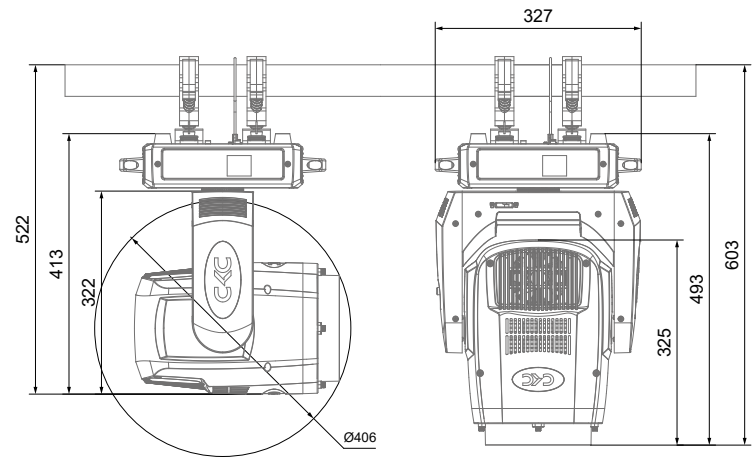
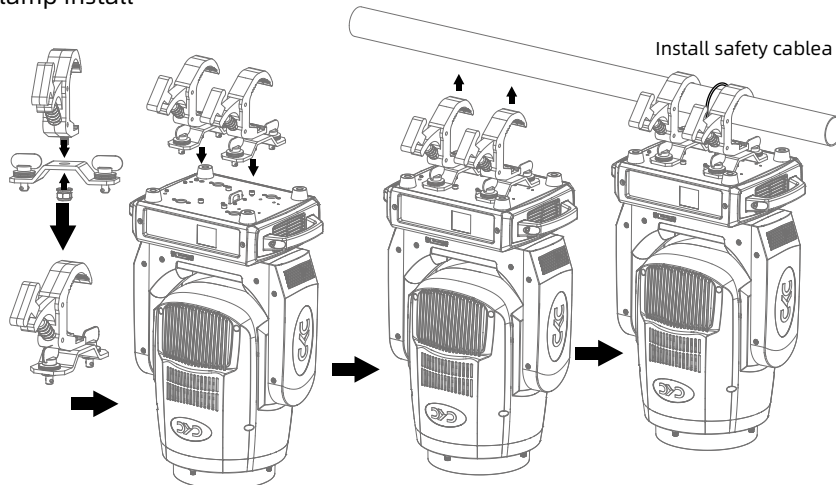
The lighting fixtures can be installed on the stage or on any direction of the truss, and the clamp can be quickly and easily locked onto the truss.



Warning !

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.

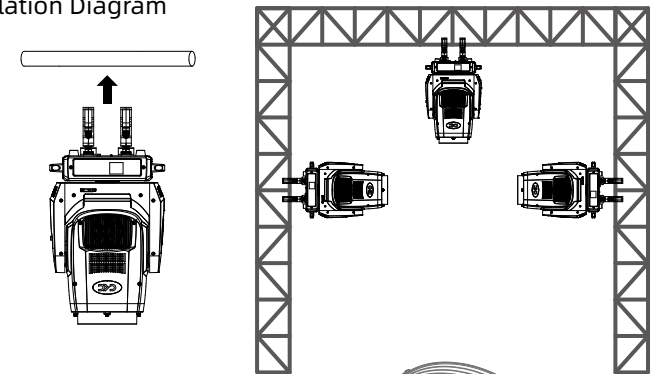
Quick lock and clamp install



5.2 Equipment installation

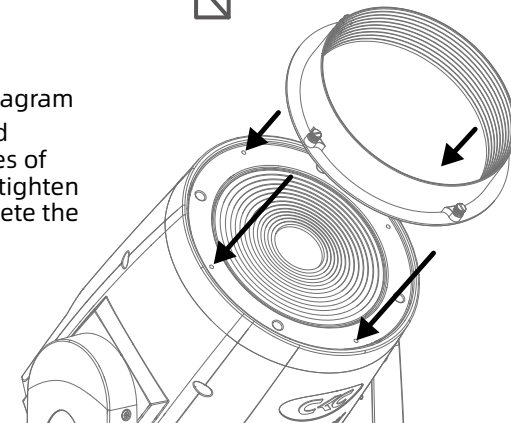
- 1). Before installation, it is necessary to verify that the lamp hook and safety rope are not damaged, and that the installation object can withstand 6 times the total weight of the lamp and cable accessories;
- 2). Install the quick lock clamp on the base of the lamp body. Insert the clamp horizontally 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



5.4 Snoot Installation Diagram

Align Snoot's 4 hand screws with the holes of the light outlet and tighten the screws to complete the task

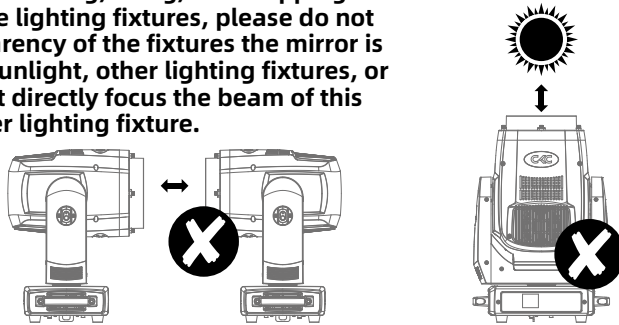




Reminder: External beam source may damage internal lighting fixtures

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.

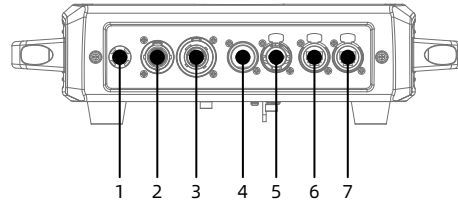
When unpacking, installing, using, and stopping the operation of the lighting fixtures, please do not expose the transparency of the fixtures the mirror is exposed to direct sunlight, other lighting fixtures, or laser beams. Do not directly focus the beam of this device onto another lighting fixture.



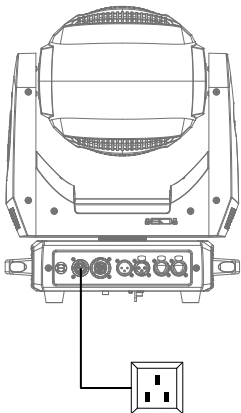
6. Power、Signal connect

6.1 Power and signal socket

- 1.Fuse holder
- 2.Power input
- 3.Power output
- 4.DMX input
- 5.DMX output
- 6.RJ45 input
- 7.RJ45 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

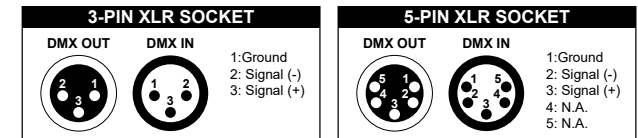
This product uses Powercon In/Out to connect power cords. Due to power limitations, a 2 square meter power cord can carry up to 6 products at 220V and 2 product at 110V.



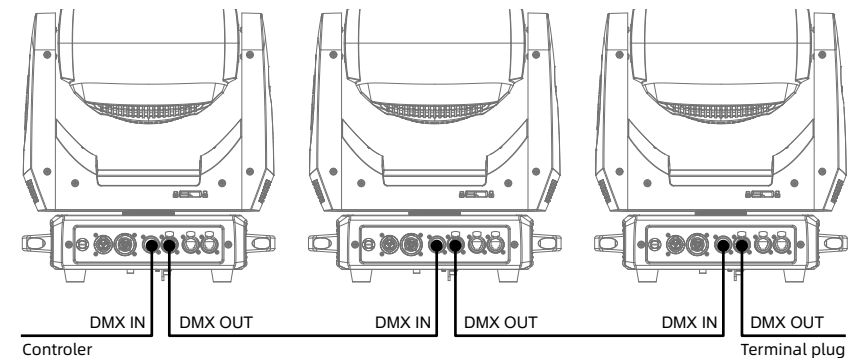
Warning !

- 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.

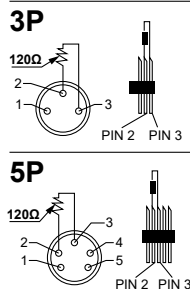
6.3 Signal connect



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.

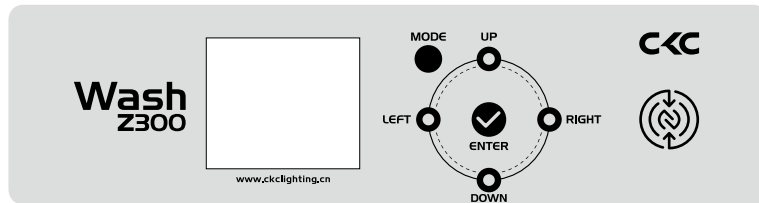


Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on 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



- NFC chip, set various parameters of the lighting fixtures through a mobile app;
- Adopts a 1.8-inch LCD display and a touch-sensitive keypad operation panel;
- 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... CCK Wash Z300 EthernetRst Temperature Check LED: xxxC/F Base: xxxC/F Motor Reset Please Wait...	
DMX	DMX Address 001 - 512
	DMX Mode Std 19CH Ext 24CH RGB 20CH CMY 20CH X,Y 18CH
	No DMX Hold
	Status Black
	Signal Art-Net / sACN

	Protocol	Universe	0-32767(ArtNet) 1-63999(sACN) (Default = 1)
		IP Address	Manual: 2.x.x.x Unique Static: 2.x.x.x/ 10.x.x.x/ 172.x.x.x/ 192.x.x.x
		Subnet Mask	255.0.0.0
		DMX Out	Off/On
		Net Switch	Off/On
Control	Manual	Pan	Manual control (Strobe dimming defaults to 255, other defaults to 000)
		Pan Fine	
		Tilt	
		...	
	Reset	All	
		Pan Tilt	
		Zoom	
	Self Test	All	
		Dimmer	
		Movement	
		Color Mix	
		Zoom	
Settings	Fan Mode	Mute/Studio/Low/High/Auto	
		P.Invert	
	Movement	T.Invert	
		Move.Speed	
		Feedback	
		Zoom Speed	
		Zoom	
	Dimmer Curve	Linear	
		Square	
		I-Inverse	
	Dimmer Modes	S-Curve	
		Standard	
		Stage	
		TV	
		Architectur	
	CCT Mode	Theatre	
		Constant	
		Max	
	Frequency	1200Hz/3600Hz/5000Hz/10KHz/15KHz/20KHz/25KHz	
	Tuning	H CRI	
		H Output	
	Balance	Bright	
		Uniform	
	DTW	DTW ON	
		DTW OFF	

	Power	50%, 60%, 70%, 80%, 90%, 100%	
	Display	Backlight	10s-5min (Default =1min)
		Key Lock	Off/ON/ON1
		Auto Rotate	Off/On/Auto
		Language	English/Chinese
	DFSE	Yes / No	
Info	Time	Current Time	xxxxxx H
		Total Run Time	xxxxxx H
		Last Run Time	xxxxxx H
		LED Time	xxxxxx.H
	Temperature	Head	xxxC/xxxF
		Base	xxxC/ SpeedxxxF
	Fan	LED Fan1: 2500RPM-6000RPM LED Fan2: 2500RPM-6000RPM Base Fan: 2200RPM-4MChan.	
	DMX Values	Pan	
		Tilt	
		...	
	Product IDs	RDM UID	062B 0366 XXXX
	Error Logs	Fixture Errors	
	Software Version	1U:V1.X.X ...	
Service (Passcode 50)	Calibration (Passcode 50)	Dimmer	
		Clear	
		Tilt	
		...	
	Clear Last (Passcode 50)	Yes / No	
	Clear Error (Passcode 50)	Yes / No	
	CCT Mode (Passcode 251)	OFF/ON	
	Tint Calib (Passcode 251)	Fide.Full Fide.1800K	

8. DMX channel table:

ST.	EX.	CMY	RGB	X,Y	Value	Function
1	1	1	1	1	0-255	PAN Movement 8bit: Pan Movement
2	2	2	2	2	0-255	Pan Fine 16bit: Fine control of Pan movement
3	3	3	3	3	0-255	TILT Movement 8bit: Tilt Movement
4	4	4	4	4	0-255	Tilt Fine 16bit: Fine control of Tilt movement

		5			0-255	Cyan: Cyan (0-100% Cyan)
		6			0-255	Cyan Fine: Cyan Fine
		7			0-255	Magenta: Magenta (0-100% Magenta)
		8			0-255	Magenta Fine: Magenta Fine
		9			0-255	Yellow: Yellow (0-100% Yellow)
		10			0-255	Yellow Fine: Yellow Fine
5	5		5		0-255	Red: Red (0-100% Red)
	6		6		0-255	Red Fine: Red Fine
6	7		7		0-255	Green: Green (0-100% Green)
	8		8		0-255	Green Fine: Green Fine
7	9		9		0-255	Blue: Blue (0-100% Blue)
	10		10		0-255	Blue Fine: Blue Fine
8	11				0-255	Lime: Lime (0-100% Lime)
	12				0-255	Lime: Fine: Lime Fine
9	13				0-255	Amber: Amber (0-100% Amber)
	14				0-255	Amber Fine: Amber Fine
				5	0-255	CIE 1931 x:
				6	0-255	CIE 1931 x Fine:
				7	0-255	CIE 1931 y:
				8	0-255	CIE 1931 y Fine:
						CTO:
				0-17		Open
10	15	11	11	9	18-100	CTO 1800K - 10000K (see separate sheet)
					101-255	10000K
11	16	12	12	10	0	CrossFade: CCT
					1-255	Transition from color temperature to full output (only available when CCT is turned on)
						Green Shift
					0	Idle
13	17	13	13	11	1-127	Full Minus Green to Neutral
					128	Neutral White
					129-255	Neutral to Full Plus Green

13	18	14	14	12		Color Wheel:
					0	Open
					1-60	Virtual Swatch Book (see separate sheet)
					61-179	Open
						Color Scroll
					180-201	Clockwise,fast → slow
					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
14	19	15	15	13	0-255	Zoom: Zoom adjustment Narrow - Wide
						Shutter, strobe:
15	20	16	16	14	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)
16	21	17	17	15	0-255	Dimmer: Intensity 0 to 100%
						Dimmer Fine: Dimmer fine
17	22	18	18	16		Dim Modes
					0-20	Standard
18	23	19	19	17	21-40	Stage
					41-60	TV
					61-80	Architectural
					81-100	Theatre
					101-255	Default to Unit Setting
						Control: (Except for reset, other settings require the shutter to be set within the range of 0-31 in order to take effect)
					0-15	no function
					16-20	Invert Pan on (Hold 3s)
					21-25	Invert Pan off (Hold 5s)
					26-30	Invert Tilt on (Hold 3s)
					31-35	Invert Tilt off (Hold 5s)
					36-40	Fan Auto(Hold 3s)
					41-45	Fan High(Hold 3s)
					46-50	Fan Low(Hold 3s)
					51-55	Fan Studio(Hold 3s)

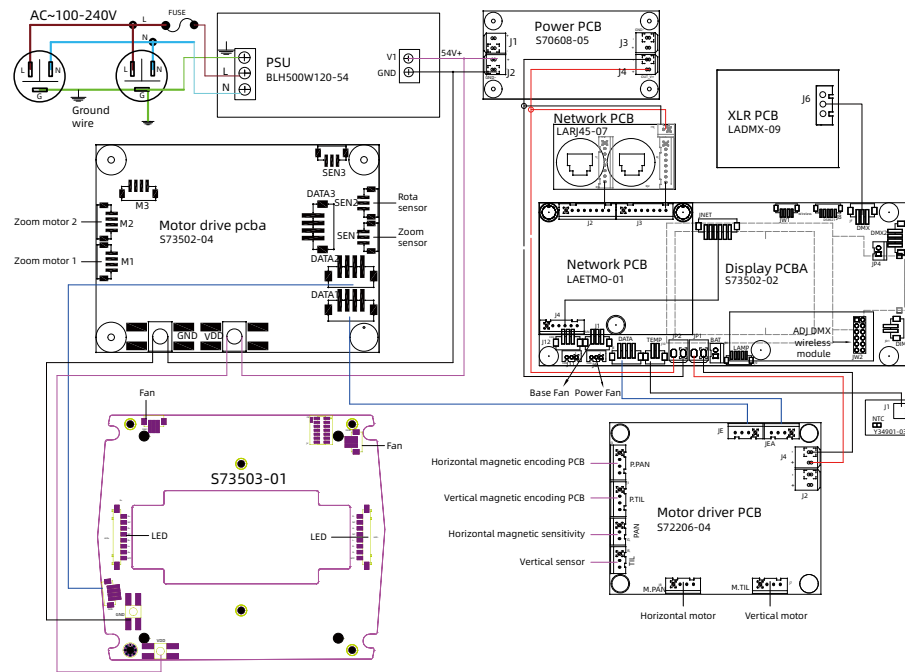
19	24	20	20	18	56-60	Fan Mute(Hold 3s)
					61-65	Linear Dimmer Curve (hold 3s)
					66-70	Square Dimmer Curve (hold 3s)
					71-75	Inv-Square Dimmer Curve (hold 3s)
					76-80	S - Dimmer Curve (hold 3s)
					81-85	Led Freq. 1200 Hz (hold 3s)
					86-90	Led Freq. 3600 Hz (hold 3s)
					91-95	Led Freq. 5000 Hz (hold 3s)
					96-100	Led Freq. 10.000 Hz (hold 3s)
					101-105	Led Freq. 15.000 Hz (hold 3s)
					106-110	Led Freq. 20.000 Hz (hold 3s)
					111-115	Led Freq. 25.000 Hz (hold 3s)
					116-120	Reset Pan/Tilt (Hold 3s)
					121-125	Reset All Functions (Hold 3s)
					126-130	DTW ON
					131-135	DTW OFF(Default)
					136-140	Highest Fidelity
					141-145	Highest Output (Default)
					146-150	Bright(Default)
					151-155	Uniform
					156-255	No Function

Virtual Swatch Book

Value	Filter Number	Name	Value	Filter Number	Name
1	4	medium bastard amber	36	131	marine blue
2	10	medium yellow	37	132	medium blue
3	15	deep straw	38	134	golden amber
4	19	fire	39	135	deep golden amber
5	21	gold amber	40	136	pale lavender
6	22	dark amber	41	137	special lavendr
7	24	scarlet	42	138	pale green
8	26	bright red	43	139	primary green
9	27	medium red	44	141	bright blue
10	36	medium pink	45	147	apricot
11	46	dark magenta	46	148	bright rose
12	48	rose purple	47	152	pale gold
13	49	medium purple	48	154	pale rose
14	68	sky blue	49	157	pink
15	71	tokyo blue	50	158	deep orange
16	79	just blue	51	162	bastard amber
17	88	lime green	52	164	flame red
18	90	dark yellow green	53	165	daylight blue
19	100	spring yellow	54	169	lilac tint
20	101	yellow	55	170	deep lavender

21	102	light amber	56	172	lagoon blue
22	103	straw	57	179	loving amber
23	104	deep amber	58	180	dark lavender
24	105	orange	59	181	congo blue
25	106	primary red	60	197	alice blue
26	111	dark pink	61	200	double C.T. Blue
27	113	magenta	62	201	FULL C.T. Blue
28	115	peacock blue	63	202	Half C.T. Blue
29	116	medium blue-green	64	203	Quarter C.T. Blue
30	117	steel blue	65	204	FULL C.T. Orange
31	118	light blue	66	205	Half C.T. Orange
32	119	dark blue	67	206	Quarter C.T. Orange
33	120	deep blue	68	248	Half miuns green
34	122	fern green	69	285	three quarter C.T.Orange
35	128	bright pink0	70	793	vanity fair

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.



Warning !

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.

- 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
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		

