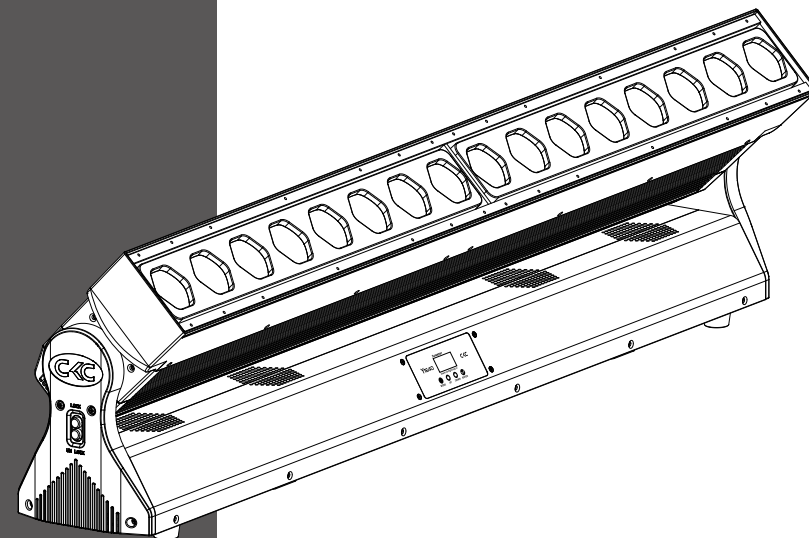




Y1640



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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 IP30 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 2m.



- 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.



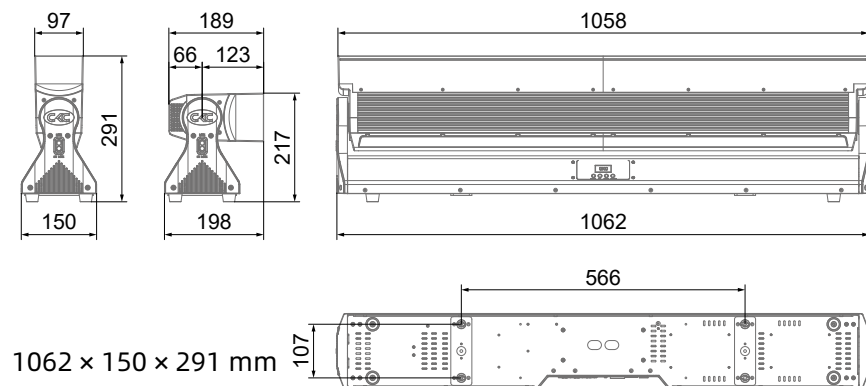
- The lighting fixtures work normally at -20 °C to 45 °C . When replacing any components or accessories in the equipment, ensure that the power is disconnected to prevent electric shock and injury;
- The maximum surface temperature of the lamp during operation can reach 75 °C , please do not touch it 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.

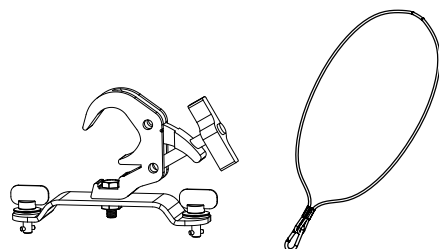
2. Product Introduction

2.1 Exterior dimensions of lighting fixtures



2.2 Packaging accessories

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



3. Main technical parameters of the equipment

Product execution standards: GB43472-2:2023 、GB/T 7000.1-2023、GB/T 7000.217-2023

● Electrical parameter

Rated input voltage: AC 100V-240V~ 50Hz/60Hz
 Rated input power: 727 W
 Power factor: 0.99F
 Input Current: 3.356A 220V

● Source lifespan

>20000 hours

● Optical system

LED source: 16 × 40W RGBW LED
 Beam angel: 4 ~ 48°
 CCT: 2700~7000K

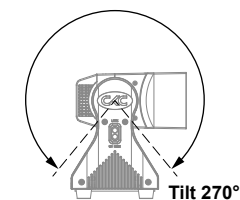
● Tilt

Tilt scan:

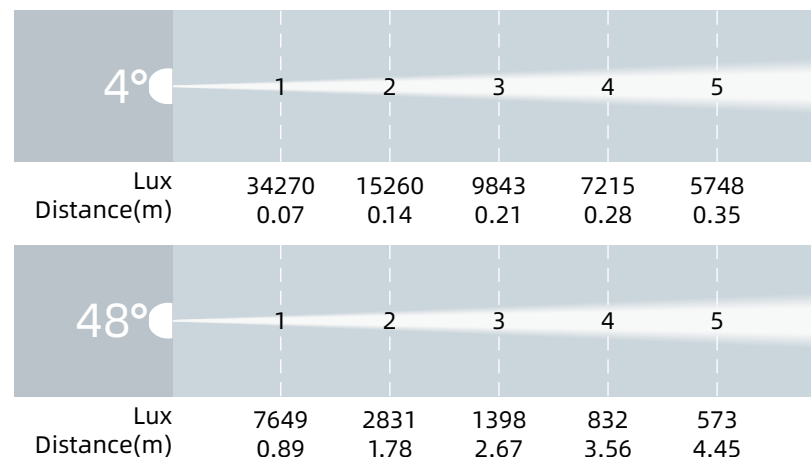
270° 8-bit/16bit precision scanning

● Control and programming

Control channel: 16CH/18CH/78CH
 Protocol: DMX512, RDM
 Data connect: 3/5 pin signal in/out



● Illumination draw



● Other effect function

Fast electronic strobe: 1~25Hz

● Other features and functions

Weight: 23.5 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.

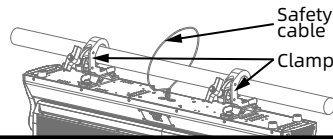
4.2 Equipment packaging

- 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

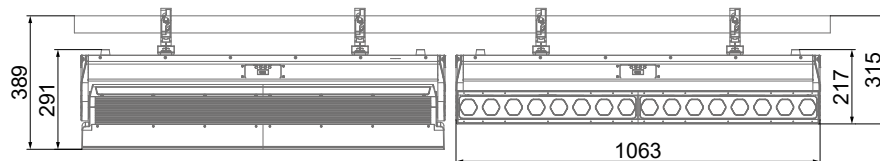
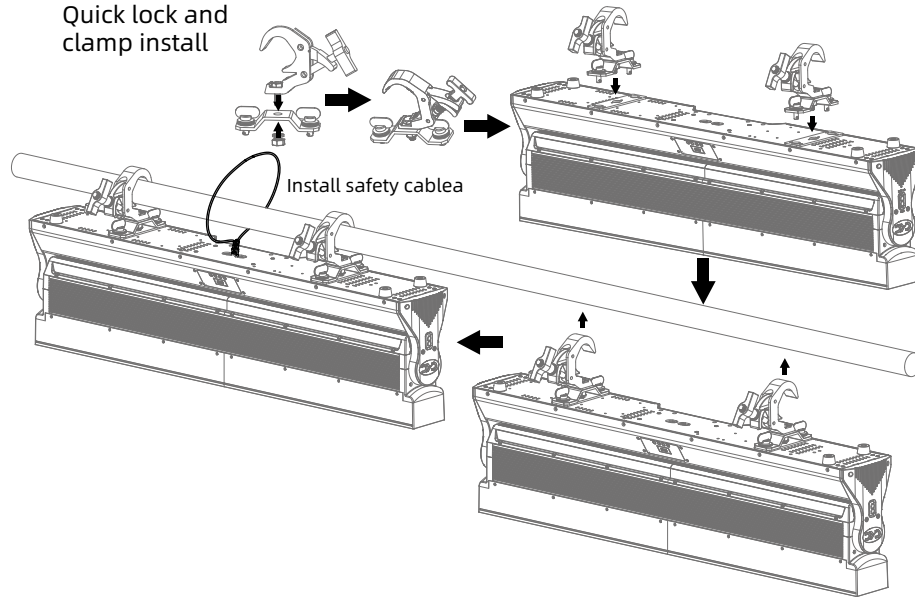
The lighting fixtures can be installed on the stage or on any direction of the truss, and the clamp can be quickly and easily locked onto the truss.



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.

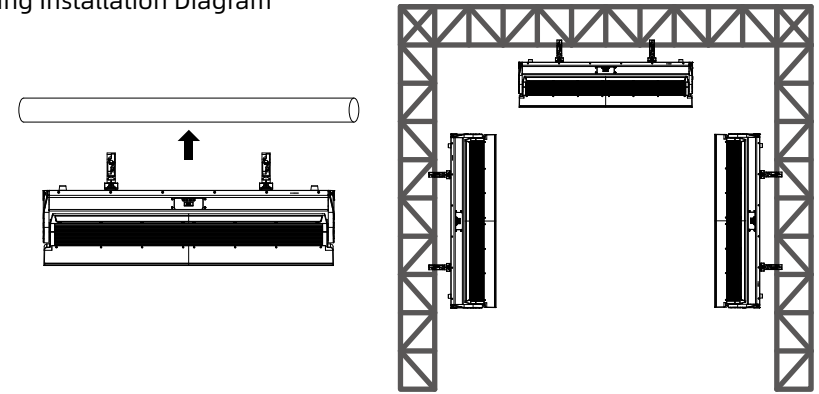
Quick lock and clamp install



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).

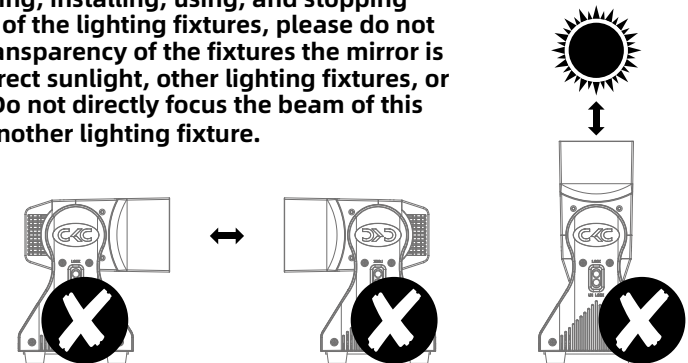
5.3 Hanging Installation Diagram



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.

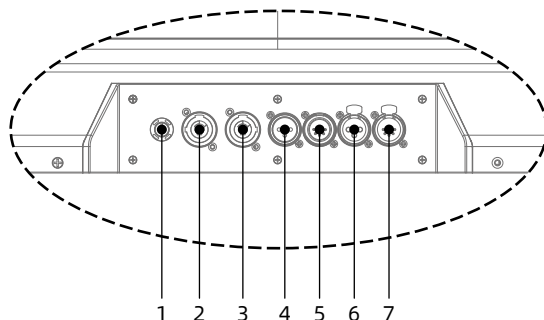
When unpacking, installing, using, and stopping the operation of the lighting fixtures, please do not expose the transparency of the fixtures the mirror is exposed to direct sunlight, other lighting fixtures, or laser beams, Do not directly focus the beam of this device onto another lighting fixture.



6. Power、Signal connect

6.1 Power and signal socket

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



6.2 Power connect

Connection method:

L(live wire) - brown wire

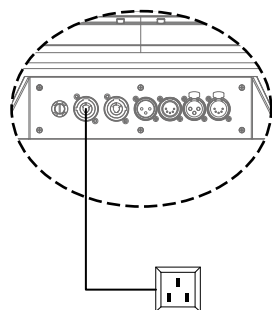
E(Ground wire) - yellow/green dual color line

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

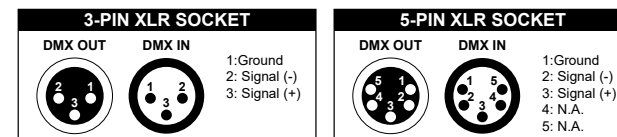
This product uses Powercon In/Out to connect power cords. Due to power limitations, a 2 square meter power cord can carry up to 3 products at 220V and 1 product at 110V.



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

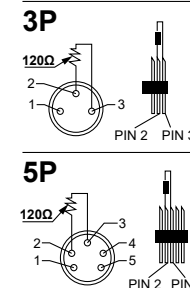


The lighting fixtures are equipped with standard DMX XLR input and output sockets. Please use DMX512 shielded twisted pair signal cables or Category 3/5 or above network twisted pair cables for connection. The typical connection distance for DMX signal lines is 150 meters. When transmitting signals over long distances, a DMX512 signal amplifier must be added.



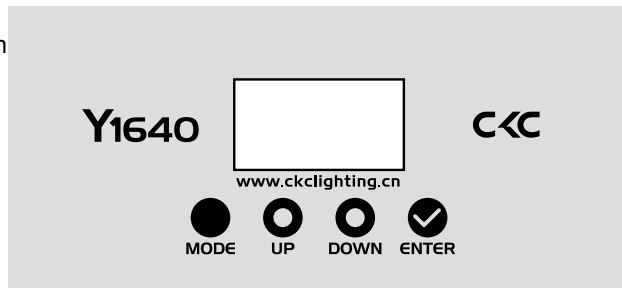
Terminal plug

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 1.3" OLED display screen;
- Press the MODE key to view or modify the lighting function settings, and press the UP and DOWN 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

Update Wait... Y1640 Reset...			
MENU Address	Address 001	001-xxx	
MENU UserMode	Standard 18CH Basic 16CH Extend 78CH		
	Status	Lost Dmx Tilt.Inv Feedback Move.Spd Stand By	Close/Hold/Auto.Pro ON/OFF ON/OFF Speed 1~ 4 OFF,001-099(Default: 015)
	Fan.Set	Led Fan	Auto High Low

MENU Function	LCD.Set	Backlight FlipDisplay Key Lock Flash	02~60m <05m> ON/ OFF ON/ OFF ON/ OFF
	Temp. C/F	C F	
	Dim Curve	Standard Stage TV Architectural Theatre	
	Disp.Set	ADDR Disp.CH Slave Auto.Pro	Slave1 -3 Alone/Master
	Gamma	2.0 /2.2/2.4/2.8	
	Frequen	900 /1000/1100/1200/1300/1400/1500/2500/4000/ 5000/10K/15K/20K/25K	
	Pixel	Standard /Flip	
	DFSE	ON/ OFF	
Info	TimeInfo	Current (Hours) Total (Hours) Last (Hours) Password (050/060) Clear/Clear-TO (ON/ OFF)	
	TempInfo	LED Temp	
	Err. Info	Tilt.....	
	ModelInf	Y1640	
	Software	1U01:V1.01 2U01:V1.01 3U01:V1.01 4U01:V1.01	
Test	Reset.M	All	
	Test.Ch	Tilt	
	ManCtrl	Tilt=XXX :	
	Calibrat	Password-050 Tilt,Red1,Green1,Blue1,White1,...Red16,Green16,Blue16,White16,Z00M1,Z00M2,Z00M3,Z00M4	

8. DMX channel table:

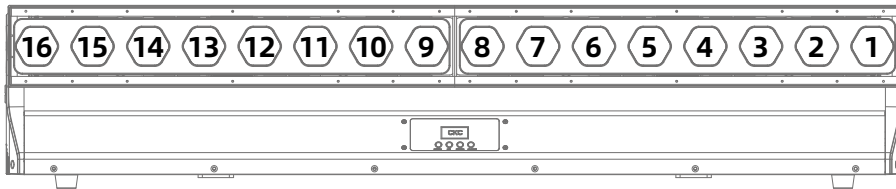
Mode/Channel			Value	Function
St	Ba	Ex		
1	1	1	0-255	TILT Movement 8bit
				Tilt Movement
2		2	0-255	Tilt Fine16bit
				Finecontrol of Tilt movement
3	2		0-255	ALL Red:
				0~100%
4	3		0-255	ALL Green:
				0~100%
5	4		0-255	ALL Blue:
				0~100%
6	5		0-255	ALL White:
				0~100%
		3	0-255	Red1:
				0~100%
		4	0-255	Green1
				0~100%
		5	0-255	Blue1
				0~100%
		6	0-255	White1
				0~100%
...				
		63	0-255	Red16:
				0~100%
		64	0-255	Green16
				0~100%
		65	0-255	Blue16
				0~100%
		66	0-255	White16
				0~100%
7		67	0-255	Color Temp
				2700k-7000k
8	6	68		Color Macros
			0	Normal
			1-255	See Color Macro Chart.
				Shutter, strobe
			0-31	Led's Off

9	7	69	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
10	8	70	0-255	Dimmer (intensity)
				Intensity 0 to 100%
11	9	71	0-255	Dimmer Fine
				Intensity 0 to 100%
12	10	72	0-255	Zoom
				0~100%
13	11	73		Auto programs:
			0	LED On
			1-14	LED Off
			15-30	Auto program1
			31-46	Auto program2
			47-62	Auto program3
			63-78	Auto program4
			79-94	Auto program5
			95-110	Auto program6
			111-126	Auto program7
			127-142	Auto program8
			143-158	Auto program9
			159-174	Auto program10
			175-190	Auto program11
			191-206	Auto program12
			207-222	Auto program13
			223-238	Auto program14
			239-255	Auto program15
14	12	74	0-255	Auto programs speed:
				Slow to Fast speed
15	13	75	0-255	Auto programs Fade:
				Slow to Fast speed
16	14	76		Dmx Mode
			0-20	Standard
			21-40	Stage
			41-60	TV

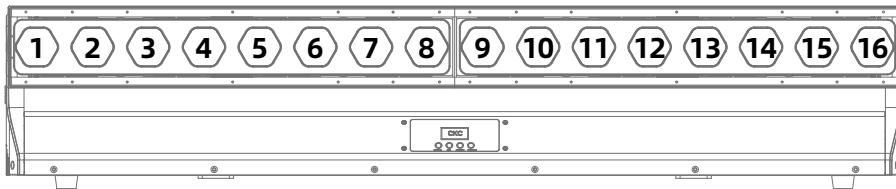
17	15	77	61-80	Architectural
			81-100	Theatre
			101-255	Default to Unit Setting
				Speed pan/tilt movement
			0-225	max to min speed
			226-235	blackout by movement
			236-255	no function
				Reset, internal programs
			0-79	Normal
			80-84	All Motor Reset
18	16	78	85-99	No function
			100-119	Internal program 1
			120-139	Internal program 2
			140-159	Internal program 3
			160-179	Internal program 4
			180-199	Internal program 5
			200-219	Internal program
			220-239	Internal program
			240-255	No function

Light pixel diagram (Facing the display screen)

Standard



Flip

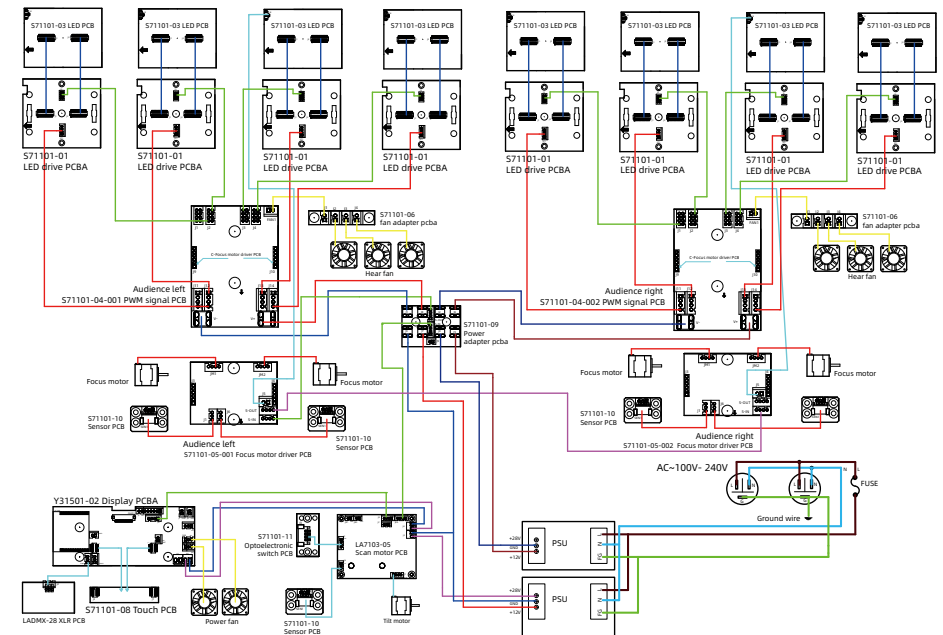


Color macro

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
W=	0	W=	0	W=	0	W=	0
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
W=	0	W=	0	W=	0	W=	0
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
W=	0	W=	0	W=	0	W=	0
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
W=	0	W=	0	W=	0	W=	0
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
W=	0	W=	0	W=	0	W=	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
W=	0	W=	0	W=	0	W=	0
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
W=	0	W=	0	W=	0	W=	0
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=	0	W=	0	W=	0	W=	255

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		

