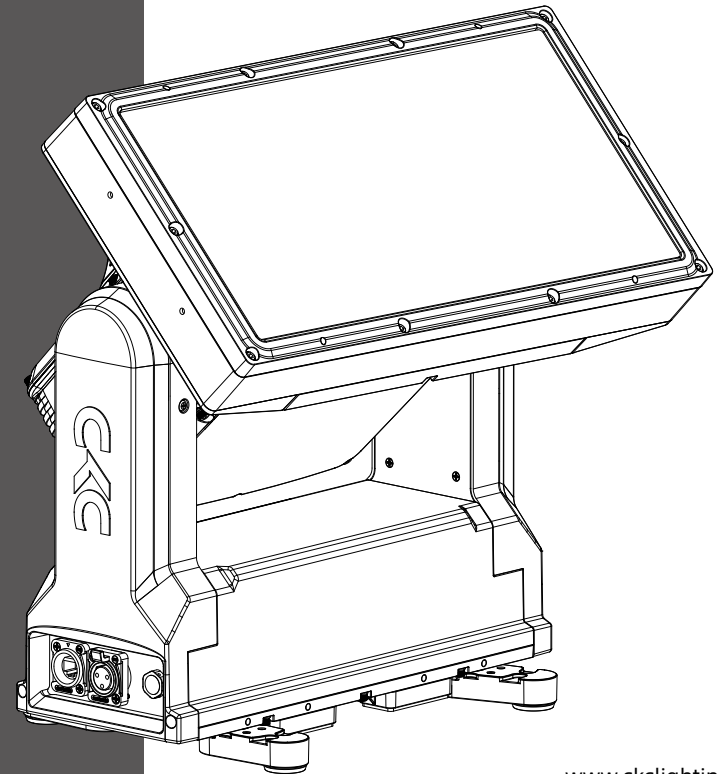




AK M Blast



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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.



- 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.



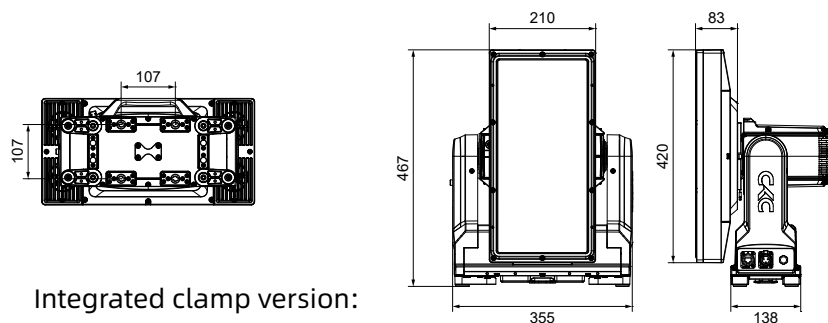
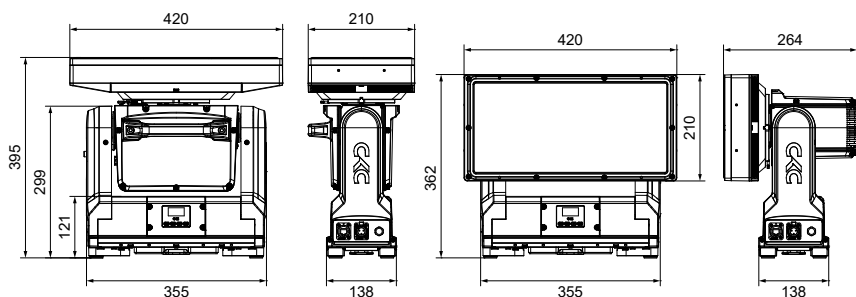
- The lighting fixtures must be installed in a sufficiently ventilated area, at least 0.5m away from adjacent surfaces, to ensure that no ventilation holes are blocked;
- Do not install the lighting fixtures directly on flammable objects;
- The minimum distance between all outer surfaces of the lamp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

2. Product Introduction

2.1 Exterior dimensions of lighting fixtures

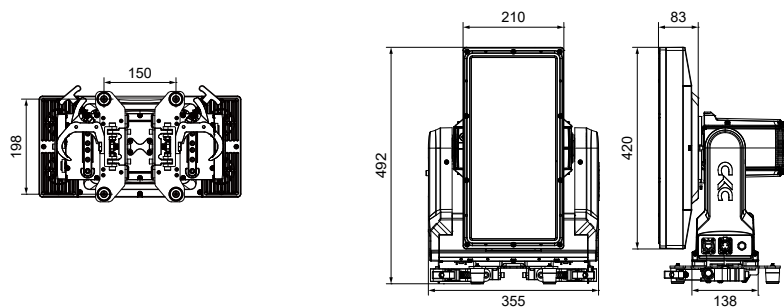
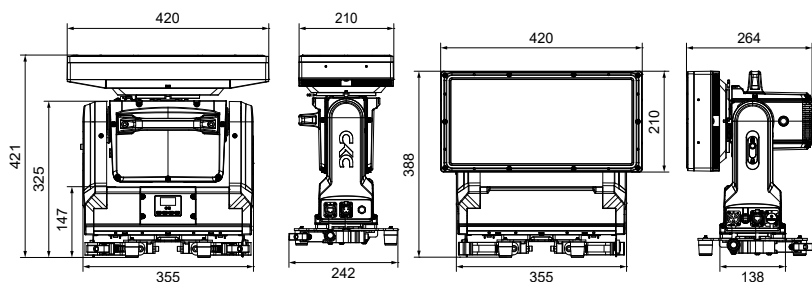
Normal version:

420 × 210 × 395 mm



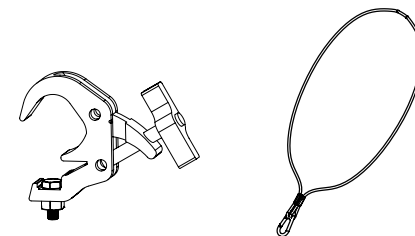
Integrated clamp version:

420 × 242 × 421 mm



2.2 Packaging accessories

Name	QTY
Clamp	2 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: 440W
 Power factor: 0.99F
 Input Current: 1.976A 220V

● Source lifespan

> 20000 hours

● Optical system

Source: 1224×1.5W RGB LED + 432×5W CW LED
 Output luminous flux: 80000 Lm
 Beam angel: 112° (CW LED) / 115° (RGB LED)
 CCT: 2400 ~ 8500 K

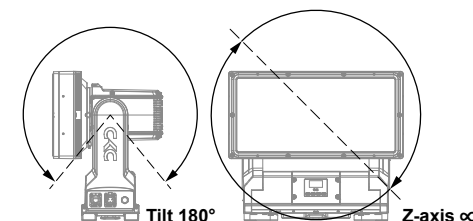
● Pan/Tilt

Pan scan:

Infinite 8-bit/16 bit precision scanning

Tilt scan:

180° 8-bit/16bit precision scanning



● Control and programming

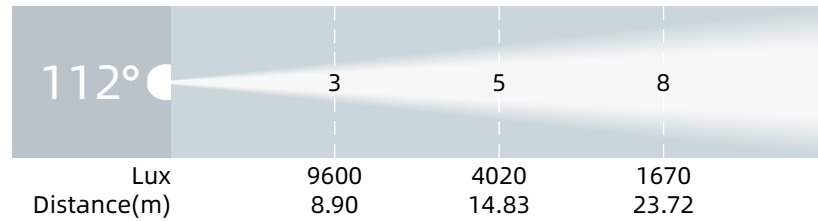
Control channel: 24CH/55CH/133CH/140CH/180CH/21CH+156CH/21CH+78CH

Protocol: DMX512, RDM, ArtNet/sACN

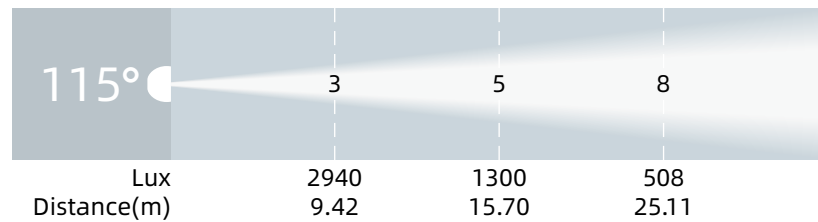
Data connect: 3 pin signal in/out, RJ45 in/out

● Illumination draw

CW LED



RGB LED



● Other effect function

Fast electronic strobe: 1~25Hz Dimming curves: 4 types
Built in effects: white light, RGB, etc., with about 40 types available

● Other features and functions

Weight: 17.5 KG
Carton size: 55 × 53.5 × 37.5 cm G.W.: 22.5 KG
Flight case size: 106.5 × 63.5 × 59 cm G.W.: 117.4 KG (4PCS)
138.5 × 74 × 61.6 cm G.W.: 132.5 KG (4PCS)
106.5 × 63 × 61.6 cm G.W.: 119.5 KG (4PCS)

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.

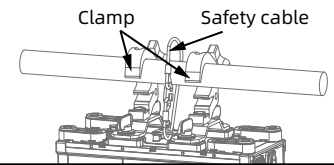
4.2 Equipment packaging

- 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

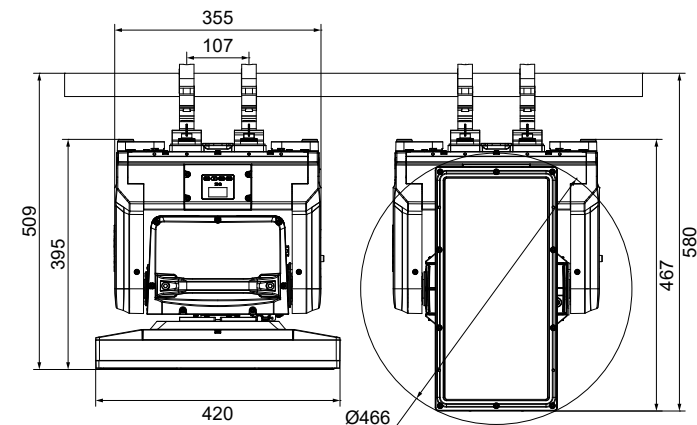
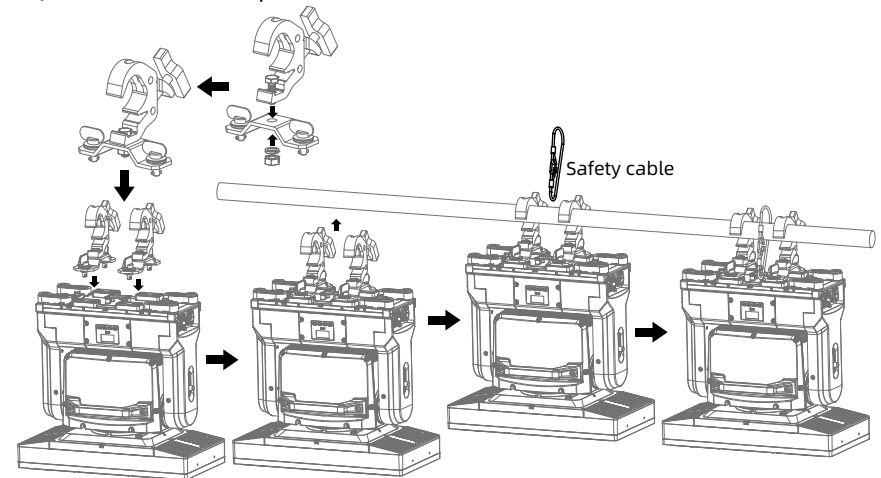
The lighting fixtures can be installed on the stage or on any direction of the truss, and the clamp can be quickly and easily locked onto the truss.



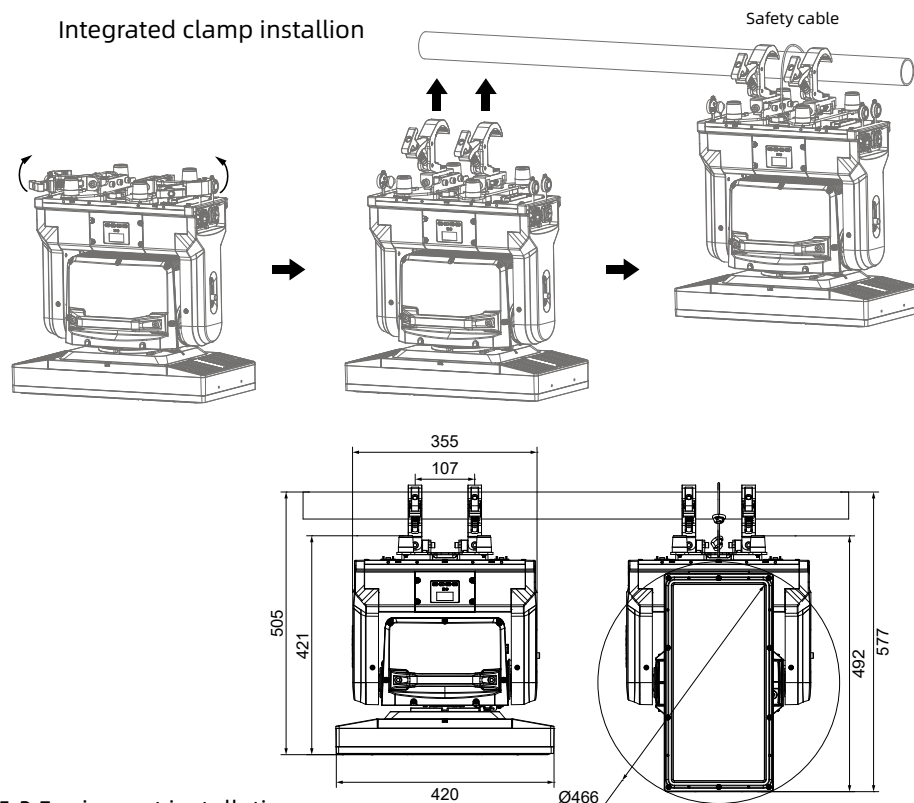
Warning !

The 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).

Quick lock and clamp install



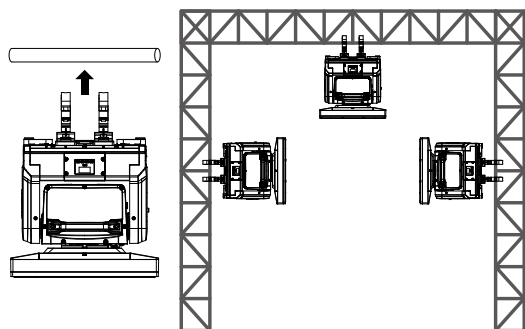
Integrated clamp installion



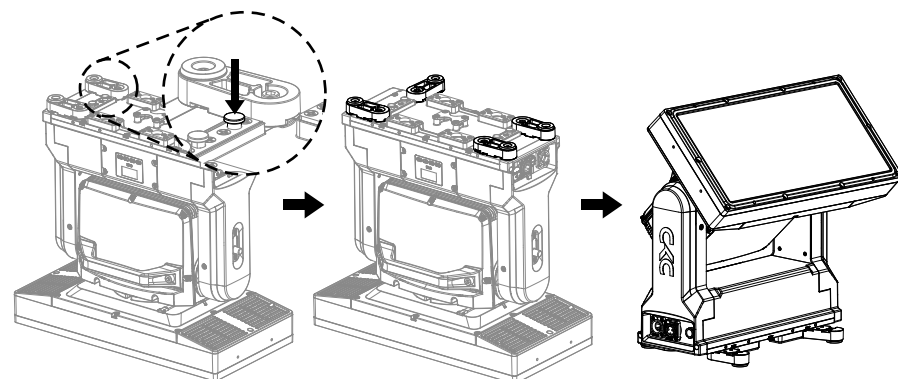
5.2 Equipment installation

- 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 Foot washer installation



Press down the lock button and foot washer will automatically lock outward 90 degrees

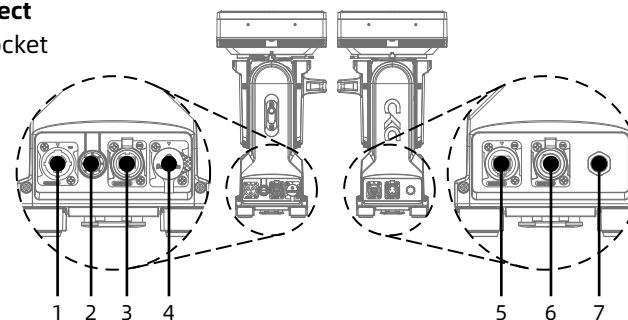
Rotate and open 4 folding foot washers in sequence

After opening all folding foot washers, use them while sitting on the ground

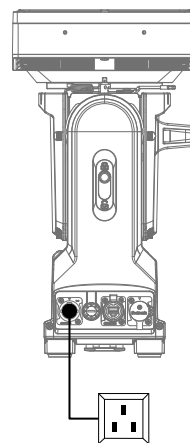
6. Power、Signal connect

6.1 Power and signal socket

1. Power input
2. Fuse holder
3. Network input
4. 3Pin XLR male
5. Network output
6. 3Pin XLR female
7. Breathable valve



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.



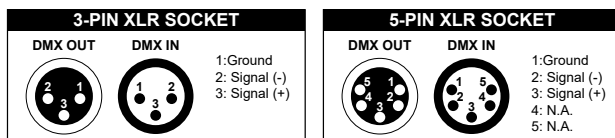
Power In

This product uses Powercon In/Out to connect power cable. Due to power limitations, a 2mm power cable can drive up to 8 fixtures at 220V.

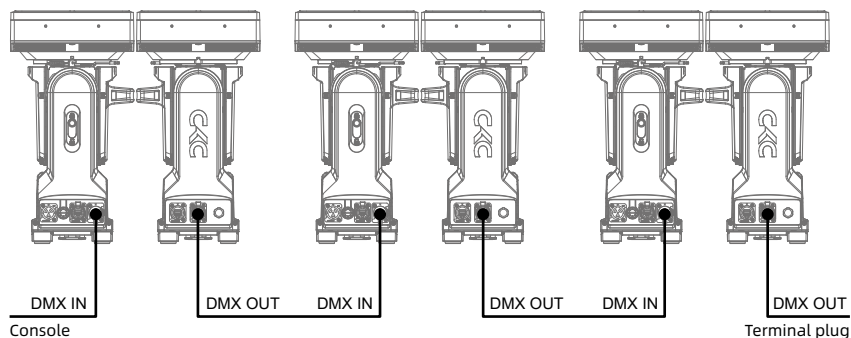
Warning !

- 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.

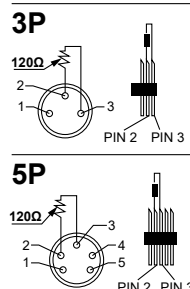
6.3 Signal connect



The lighting fixtures are equipped with standard DMX XLR 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.

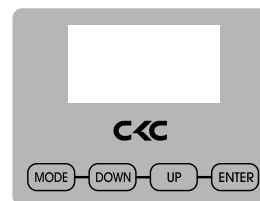


Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on 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 OLED display screen;
- Press the MENU key to view or modify fixture function settings, and press UP and DOWN;
- 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 MENU 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 CKC AK M Blast Ethernet Init ... Motor Reset Please Wait ...		
Menu Option	Level 1	Level 2
DMX Settings	DMX Address	001 - XXX
		24CH
		55CH
		133CH
		140CH
		180CH
		21CH+156CH
		21CH+78CH
	No DMX Status	Hold Last
		Fade to black
	Protocol	Net Protocol
		Art-Net/sACN /Only Dmx
		Universe
		0- 32767
		IP
		2.x.x.x
		Subnet Mask
		255.0.0.0
		Net Switch
		Off
		ON
		KlingNet
		Off
		ON
	Dual Universe	Active
		Yes / No
		Select Signal
		Art-Net/sACN Dmx
		Universe
		0- 32767 (Default=2)
		LED Address
		001 - 512
		Pan
		0- 255

Control	Manual Control	Tilt	0- 255
		RGB Dimmer	0%-100%
		Red	0- 255
		Green	0- 255
		Blue	0- 255
		CW Strobe Dimmer	0%-100%
		CCT	2400K - 8500K
		Virtual Color	
		On	
		Off	
	Primary	On	
		Off	
	Secondary	On	
		Off	
	Reset	All	
		Pan	
		Tilt	
	Self Test	All	
		Dimmer	
		Movement	
		Strobe LED	
		Color LED	
	Fan Mode	Auto	
		High	
		Silent	
	Movement	Pan Invert	Off
			On
		Tilt Invert	Off
			On
		Pan Tilt Speed	1 - 4
		Pan Degree	360
			540
		Pan Path	Continue
	Dim Modes		Short
		Pan Tilt Feedback	Off
			On
		Hibernation	Off
			1-99M
			Standard
			Stage
			TV
			Architectural
			Theatre
			Stage 2
		1-99M	0s - 10s

Settings	Dim Curves	Linear
		Square
		Square Inverse
		S-Curve
	Zone Flip	Default
		Horizontally
		Vertically
		Intersection
	LED Refresh Rate	900~1500, 2500, 4000, 5000, 6000, 10KHz, 15KHz, 20KHz, 25KHz (1200Hz)
	LED Power Limit	50%
		60%
		70%
		80%
		90%
100%		
Display	Screen Saver Delay 10s - 5min (Default 1 min)	
	Screen Lock OFF -10s - 5 min	
	Rotate Display YES / NO /Auto	
Reset Defaults	Yes/No	
INFO	Time	Current Run Time
		Total Run Time
		Last Run Time
	Temperature	Head
		Base
		Max
	Fan Speed	Head
		Base
		Pan
	DMX Values	Tilt
		...
		...
	Product ID's	RDM UID
	Error Logs	Fixture Errors
Software Version	1U:V1.0.X 2U:V1.0.X 3U:V1.0.X 4U:V1.0.X 5U:V1.0.X	
		Pan 000 - 255
		Tilt 000 - 255
		All Red 000 - 255
		All Green 000 - 255
All Blue 000 - 255		

Service (Passcode = 050)	Calibration	All CW Strobe 000 - 255	
		Red 1 0-255	
		Green 1 0-255	
		Blue 1 0-255	
			
		Red 36 0-255	
		Green 36 0-255	
		Blue 36 0-255	
		CW Strobe 1 0-255	
			
		CW Strobe 48 0-255	
	Reset Last Run	Yes / No	
	Reset Error Log	Yes / No	
	Update Fireware	On / Off	

8.DMX control channel table :

channel table 1 :

24CH	55CH	Value	Function
1	1	000-255	Pan
2	2	000-255	Pan fine
3	3	000-255	Tilt
4	4	000-255	Tilt fine
5	5	PAN Continuous rotation	
		0-2	Disabled
		3-126	Rotate Clockwise Fast → Slow
		127-129	No Rotation
		130-253	Rotate Counter-Clockwise Fast → Slow
		254-255	No Rotation
6	6	0-255	Master Dimmer Intensity 0 → 100%
7	7	0-255	CW Dimmer Intensity 0 → 100%
8	8	CW Strobe Mode	
		0-31	Close
		32-63	Open
		64-95	All Strobe: slow->fast
		96-127	Open
		128-159	All Pulse Strobe: slow->fast
		160-191	Open
		192-207	Single Random
		208-223	Random
		224-255	Open
9	9	0-255	RGB Dimmer Intensity 0 → 100%

10	10	RGB Strobe Mode	
		0-31	Close
		32-63	Open
		64-95	All Strobe: slow->fast
		96-127	Open
		128-159	All Pulse Strobe: slow->fast
		160-191	Open
		192-207	Single Random
		208-223	Random
		224-255	Open
11	11	0-255	All Red Red Saturation 0 → 100%
12	12	0-255	All Green Green Saturation 0 → 100%
13	13	0-255	All Blue Blue Saturation 0 → 100%
14	14	RGB Variable CCT	
		0-23	Open
		24-85	2400K → 8500K (See Sheet)
		96-255	8500K
15	15	RGB Color Wheel	
		0	Open
		1-179	Virtual Swatch Book (See Table)
		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
		CW Strobe Effect Selelection	
		0-15	No Function
		16-21	FX Selection 1
		22-27	FX Selection 2
		28-33	FX Selection 3
		34-39	FX Selection 4
		40-45	FX Selection 5
		46-51	FX Selection 6
		52-57	FX Selection 7
		58-63	FX Selection 8
		64-69	FX Selection 9
		70-75	FX Selection 10

16	16	76-81	FX Selection 11
		82-87	FX Selection 12
		88-93	FX Selection 13
		94-99	FX Selection 14
		100-105	FX Selection 15
		106-111	FX Selection 16
		112-117	FX Selection 17
		118-123	FX Selection 18
		124-129	FX Selection 19
		130-135	FX Selection 20
		136-141	FX Selection 21
		142-147	FX Selection 22
		148-153	FX Selection 23
		154-159	FX Selection 24
		160-165	FX Selection 25
		166-171	FX Selection 26
		172-177	FX Selection 27
		178-183	FX Selection 28
		184-189	FX Selection 29
		190-195	FX Selection 30
		196-201	FX Selection 31
		202-207	FX Selection 32
		208-213	FX Selection 33
		214-219	FX Selection 34
		220-225	FX Selection 35
		226-231	FX Selection 36
		232-237	FX Selection 37
		238-243	FX Selection 38
		244-249	FX Selection 39
		250-255	FX Selection 40
17	17	CW Strobe Effect Speed	
		0-126	Slow → Fast
		127-128	Stop
		129-255	Rev Fast → Slow
18	18	CW Strobe Effect Offset	
		0	Idle
		1	Fixture Offset 10 Degrees
		2	Fixture Offset 20 Degrees
		3-34	Fixture Offset...
		35	Fixture Offset 350 Degrees
		36	Synchronized
		37-49	Random Fixture Offset
		50-59	Random Pixel Order
		60-69	Random Steps
		70-79	Idle

19	19	Effect Fade	
		80-89	Sinewave- Cross
		90-99	Sinewave- Full
		100-109	Sawtooth- Cross
		110-119	Sawtooth- Full
		120-129	Ramp Up
		130-139	Ramp Down
		140-149	Steps
		150-255	Idle
		RGB Color Wheel Background	
		0	Close
		1-179	Virtual Swatch Book (See Table)
		Color Scroll	
		180-201	Clockwise Fast → Slow
		202-207	Stop
		208-229	Counter-clockwise Slow → Fast
		230-234	Close
		Random Slots	
		235-239	Fast
		240-244	Medium
		245-249	Slow
		250-255	Close
20	20	RGB Effect Selection	
		0-15	No Function
		16-21	FX Selection 1
		22-27	FX Selection 2
		28-33	FX Selection 3
		34-39	FX Selection 4
		40-45	FX Selection 5
		46-51	FX Selection 6
		52-57	FX Selection 7
		58-63	FX Selection 8
		64-69	FX Selection 9
		70-75	FX Selection 10
		76-81	FX Selection 11
		82-87	FX Selection 12
		88-93	FX Selection 13
		94-99	FX Selection 14
		100-105	FX Selection 15
		106-111	FX Selection 16
		112-117	FX Selection 17
		118-123	FX Selection 18
		124-129	FX Selection 19
		130-135	FX Selection 20
		136-141	FX Selection 21

		142-147	FX Selection 22
		148-153	FX Selection 23
		154-159	FX Selection 24
		160-165	FX Selection 25
		166-171	FX Selection 26
		172-177	FX Selection 27
		178-183	FX Selection 28
		184-189	FX Selection 29
		190-195	FX Selection 30
		196-201	FX Selection 31
		202-207	FX Selection 32
		208-213	FX Selection 33
		214-219	FX Selection 34
		220-225	FX Selection 35
		226-231	FX Selection 36
		232-237	FX Selection 37
		238-243	FX Selection 38
		244-249	FX Selection 39
		250-255	FX Selection 40
21	21	RGB Effect Speed	
		0-126	Slow → Fast
		127-128	Stop
		129-255	Rev Fast → Slow
22	22	RGB Effect Offset	
		0	Idle
		1	Fixture Offset 10 Degrees
		2	Fixture Offset 20 Degrees
		3-34	Fixture Offset...
		35	Fixture Offset 350 Degrees
		36	Synchronized
		37-49	Random Fixture Offset
		50-59	Random Pixel Order
		60-69	Random Steps
		70-79	Idle
		Effect Fade	
		80-89	Sinewave- Cross
		90-99	Sinewave- Full
		100-109	Sawtooth- Cross
		110-119	Sawtooth- Full
		120-129	Ramp Up
		130-139	Ramp Down
		140-149	Steps
		150-255	Idle

23	23	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
		142-255	Idle
24	24	Control	
		0-3	Idle
		4-7	Fan Mode: Auto
		8-11	Fan Mode: Silent
		12-15	Fan Mode: High
		16-19	Pan/Tilt Reset
		20-23	Pan Reset
		24-27	Tilt Reset
		28-31	Pan Tilt Speed 1
		32-35	Pan Tilt Speed 2
		36-39	Pan Tilt Speed 3
		40-43	Pan Tilt Speed 4
		44-47	Pan Tilt Shortest Path
		48-51	Pan Tilt Continue Path
		52-55	Pan Range 540
		56-59	Pan Range 360

	60-63	Blackout with Movement On
	64-67	Blackout with Movement Off
	68-99	Idle
	Refresh Rate (Hz)	
	100-104	900
	105-109	1000
	110-114	1100
	115-119	1200
	120-124	1300
	125-129	1400
	130-134	1500
	135-139	2500
	140-144	4000
	145-149	5000
	150-154	6000
	155-159	10000
	160-164	15000
	165-169	20000
	170-173	25000
	Zone Flip	
	175-176	Default Zone Arrangement
	177-178	Flip Zones Horizontally
	179-180	Flip Zones Vertically
	181-182	Flip Zones Horizontally and Vertically
	183-200	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
	25	0-255 Red1
	26	0-255 Green1
	27	0-255 Blue1
	...	0-255 RGB...
	49	0-255 Red9
	50	0-255 Green9
	51	0-255 Blue9
	52	0-255 CW Strobe 1
	53	0-255 CW Strobe 2
	54	0-255 CW Strobe 3
	55	0-255 CW Strobe 4

channel table 2 :

180CH	Value	Function
1	000-255	Pan
2	000-255	Pan fine
3	000-255	Tilt
4	000-255	Tilt fine
5	PAN Continuous rotation	
	0-2	Disabled
	3-126	Rotate Clockwise Fast → Slow
	127-129	No Rotation
	130-253	Rotate Counter-Clockwise Fast → Slow
6	0-255	Master Dimmer Intensity 0 → 100%
		CW Dimmer Intensity 0 → 100%
8	CW Strobe Mode	
	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast
	96-127	Open
	128-159	All Pulse Strobe: slow->fast
	160-191	Open
	192-207	Single Random
	208-223	Random
	224-255	Open
9	0-255	RGB Dimmer Intensity 0 → 100%
10	RGB Strobe Mode	
	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast
	96-127	Open
	128-159	All Pulse Strobe: slow->fast
	160-191	Open
	192-207	Single Random
	208-223	Random
	224-255	Open
11	0-255	All Red Red Saturation 0 → 100%
12	0-255	All Green Green Saturation 0 → 100%
13	0-255	All Blue Blue Saturation 0 → 100%

14	RGB Variable CCT	
	0-23	Open
	24-85	2400K → 8500K (See Sheet)
	96-255	8500K
15	RGB Color Wheel	
	0	Open
	1-179	Virtual Swatch Book (See Table)
		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
16	CW Strobe Effect Selelection	
	0-15	No Function
	16-21	FX Selection 1
	22-27	FX Selection 2
	28-33	FX Selection 3
	34-39	FX Selection 4
	40-45	FX Selection 5
	46-51	FX Selection 6
	52-57	FX Selection 7
	58-63	FX Selection 8
	64-69	FX Selection 9
	70-75	FX Selection 10
	76-81	FX Selection 11
	82-87	FX Selection 12
	88-93	FX Selection 13
	94-99	FX Selection 14
	100-105	FX Selection 15
	106-111	FX Selection 16
	112-117	FX Selection 17
	118-123	FX Selection 18
	124-129	FX Selection 19
	130-135	FX Selection 20
	136-141	FX Selection 21
	142-147	FX Selection 22
	148-153	FX Selection 23
	154-159	FX Selection 24
	160-165	FX Selection 25
	166-171	FX Selection 26
	172-177	FX Selection 27
	178-183	FX Selection 28

	184-189	FX Selection 29
	190-195	FX Selection 30
	196-201	FX Selection 31
	202-207	FX Selection 32
	208-213	FX Selection 33
	214-219	FX Selection 34
	220-225	FX Selection 35
	226-231	FX Selection 36
	232-237	FX Selection 37
	238-243	FX Selection 38
	244-249	FX Selection 39
	250-255	FX Selection 40
17	CW Strobe Effect Speed	
	0-126	Slow → Fast
	127-128	Stop
	129-255	Rev Fast → Slow
18	CW Strobe Effect Offset	
	0	Idle
	1	Fixture Offset 10 Degrees
	2	Fixture Offset 20 Degrees
	3-34	Fixture Offset...
	35	Fixture Offset 350 Degrees
	36	Synchronized
	37-49	Random Fixture Offset
	50-59	Random Pixel Order
	60-69	Random Steps
	70-79	Idle
	Effect Fade	
	80-89	Sinewave- Cross
	90-99	Sinewave- Full
	100-109	Sawtooth- Cross
	110-119	Sawtooth- Full
	120-129	Ramp Up
	130-139	Ramp Down
	140-149	Steps
	150-255	Idle
19	RGB Color Wheel Background	
	0	Close
	1-179	Virtual Swatch Book (See Table)
	Color Scroll	
	180-201	Clockwise Fast → Slow
	202-207	Stop
	208-229	Counter-clockwise Slow → Fast
	230-234	Close
	Random Slots	

20	235-239	Fast
	240-244	Medium
	245-249	Slow
	250-255	Close
	RGB Effect Selection	
	0-15	No Function
	16-21	FX Selection 1
	22-27	FX Selection 2
	28-33	FX Selection 3
	34-39	FX Selection 4
	40-45	FX Selection 5
	46-51	FX Selection 6
	52-57	FX Selection 7
	58-63	FX Selection 8
	64-69	FX Selection 9
	70-75	FX Selection 10
	76-81	FX Selection 11
	82-87	FX Selection 12
	88-93	FX Selection 13
	94-99	FX Selection 14
	100-105	FX Selection 15
	106-111	FX Selection 16
	112-117	FX Selection 17
	118-123	FX Selection 18
	124-129	FX Selection 19
	130-135	FX Selection 20
	136-141	FX Selection 21
	142-147	FX Selection 22
	148-153	FX Selection 23
	154-159	FX Selection 24
	160-165	FX Selection 25
	166-171	FX Selection 26
	172-177	FX Selection 27
	178-183	FX Selection 28
	184-189	FX Selection 29
	190-195	FX Selection 30
	196-201	FX Selection 31
	202-207	FX Selection 32
	208-213	FX Selection 33
	214-219	FX Selection 34
	220-225	FX Selection 35
	226-231	FX Selection 36
	232-237	FX Selection 37
	238-243	FX Selection 38
	244-249	FX Selection 39
	250-255	FX Selection 40

21		RGB Effect Speed
	0-126	Slow → Fast
	127-128	Stop
	129-255	Rev Fast → Slow
22		RGB Effect Offset
	0	Idle
	1	Fixture Offset 10 Degrees
	2	Fixture Offset 20 Degrees
	3-34	Fixture Offset...
	35	Fixture Offset 350 Degrees
	36	Synchronized
	37-49	Random Fixture Offset
	50-59	Random Pixel Order
	60-69	Random Steps
	70-79	Idle
		Effect Fade
	80-89	Sinewave- Cross
	90-99	Sinewave- Full
	100-109	Sawtooth- Cross
	110-119	Sawtooth- Full
	120-129	Ramp Up
	130-139	Ramp Down
	140-149	Steps
	150-255	Idle
23		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

24

135	4.0s
136	5.0s
137	6.0s
138	7.0s
139	8.0s
140	9.0s
141	10s
142-255	Idle
Control	
0-3	Idle
4-7	Fan Mode: Auto
8-11	Fan Mode: Silent
12-15	Fan Mode: High
16-19	Pan/Tilt Reset
20-23	Pan Reset
24-27	Tilt Reset
28-31	Pan Tilt Speed 1
32-35	Pan Tilt Speed 2
36-39	Pan Tilt Speed 3
40-43	Pan Tilt Speed 4
44-47	Pan Tilt Shortest Path
48-51	Pan Tilt Continue Pat
52-55	Pan Range 540
56-59	Pan Range 360
60-63	Blackout with Movement On
64-67	Blackout with Movement Off
68-99	Idle
Refresh Rate (Hz)	
100-104	900
105-109	1000
110-114	1100
115-119	1200
120-124	1300
125-129	1400
130-134	1500
135-139	2500
140-144	4000
145-149	5000
150-154	6000
155-159	10000
160-164	15000
165-169	20000
170-173	25000
Zone Flip	
175-176	Default Zone Arrangement
177-178	Flip Zones Horizontally
179-180	Flip Zones Vertically

	181-182	Flip Zones Horizontally and Vertically
	183-200	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
25	0-255	Red1
26	0-255	Green1
27	0-255	Blue1
94	0-255	Red24
95	0-255	Green24
96	0-255	Blue24
97	0-255	CW Strobe 1
98	0-255	CW Strobe 2
99	0-255	CW Strobe 3
100	0-255	CW Strobe 4
...	0-255	CW Strobe...
144	0-255	CW Strobe 48
145	0-255	StrobeLine Red 1
150	0-255	StrobeLine Green 1
151	0-255	StrobeLine Blue 1
...	0-255	StrobeLine Red...
...	0-255	StrobeLine Green...
...	0-255	StrobeLine Blue...
178	0-255	StrobeLine Red 12
179	0-255	StrobeLine Green 12
180	0-255	StrobeLine Blue 12

21CH Easy Mode +156CH

21CH	Value	Function
1	000-255	Pan
2	000-255	Pan fine
3	000-255	Tilt
4	000-255	Tilt fine
PAN Continuous rotation		
5	0-2	Disabled
	3-126	Rotate Clockwise Fast → Slow
	127-129	No Rotation
	130-253	Rotate Counter-Clockwise Fast → Slow
	254-255	No Rotation
6	0-255	Master Dimmer
		Intensity 0 → 100%

7	0-255	All Red
		Red Saturation 0 → 100%
8	0-255	All Green
		Green Saturation 0 → 100%
9	0-255	All Blue
		Blue Saturation 0 → 100%
10	0-255	All Dimmer
11	RGB Strobe Mode	
	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast
	96-127	Open
	128-159	All Random Strobe: slow->fast
	160-191	Open
	192-223	All Single Random
	224-255	Open
12	0-255	Center Red
		Red Saturation 0 → 100%
13	0-255	Center Green
		Green Saturation 0 → 100%
14	0-255	Center Blue
		Blue Saturation 0 → 100%
15	0-255	Center Dimmer
16	Center RGB Strobe Mode	
	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast
	96-127	Open
	128-159	All Random Strobe: slow->fast
	160-191	Open
	192-223	All Single Random
	224-255	Open
17	0-255	CW
18	0-255	CW Dimmer
19	CW Strobe Mode	
	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast CW
	96-127	Open
	128-159	All Random Strobe: slow->fast CW
	160-191	Open
	192-223	All Single Random CW
	224-255	Open
	Dim Modes	
	0-20	Standard

20	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
	142-255	Idle
	Control	
	0-3	Idle
	4-7	Fan Mode: Auto
	8-11	Fan Mode: Silent
	12-15	Fan Mode: High
	16-19	Pan/Tilt Reset
	20-23	Pan Reset
	24-27	Tilt Reset
	28-31	Pan Tilt Speed 1
	32-35	Pan Tilt Speed 2
	36-39	Pan Tilt Speed 3
	40-43	Pan Tilt Speed 4
	44-47	Pan Tilt Shortest Path
	48-51	Pan Tilt Continue Pat
	52-55	Pan Range 540
	56-59	Pan Range 360
	60-63	Blackout with Movement On

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64-67	Blackout with Movement Off
68-99	Idle
Refresh Rate (Hz)	
100-104	900
105-109	1000
110-114	1100
115-119	1200
120-124	1300
125-129	1400
130-134	1500
135-139	2500
140-144	4000
145-149	5000
150-154	6000
155-159	10000
160-164	15000
165-169	20000
170-173	25000
Zone Flip	
175-176	Default Zone Arrangement
177-178	Flip Zones Horizontally
179-180	Flip Zones Vertically
181-182	Flip Zones Horizontally and Vertically
183-200	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

156CH	Value	Function
1	0-255	Red1
2	0-255	Green1
3	0-255	Blue1
	0-255	RGB...
34	0-255	Red12
35	0-255	Green12
36	0-255	Blue12
	0-255	RGB...
70	0-255	Red24
71	0-255	Green24
72	0-255	Blue24
73	0-255	StrobeLine Red 1
74	0-255	StrobeLine Green 1

75	0-255	StrobeLine Blue 1
76	0-255	StrobeLine Red 2
77	0-255	StrobeLine Green 2
78	0-255	StrobeLine Blue 2
	0-255	StrobeLine RGB...
106	0-255	StrobeLine Red 12
107	0-255	StrobeLine Green 12
108	0-255	StrobeLine Blue 12
109	0-255	CW Strobe 1
110	0-255	CW Strobe 2
111	0-255	CW Strobe 3
112	0-255	CW Strobe 4
	0-255	CW Strobe...
	0-255	CW Strobe 12
	0-255	CW Strobe...
156	0-255	CW Strobe 48

21CH Std Mode +78CH

21CH	Value	Function
1	000-255	Pan
2	000-255	Pan fine
3	000-255	Tilt
4	000-255	Tilt fine
PAN Continuous rotation		
5	0-2	Disabled
	3-126	Rotate Clockwise Fast → Slow
	127-129	No Rotation
	130-253	Rotate Counter-Clockwise Fast → Slow
	254-255	No Rotation
Master Dimmer		
6	0-255	Intensity 0 → 100%
All Red		
7	0-255	Red Saturation 0 → 100%
All Green		
8	0-255	Green Saturation 0 → 100%
All Blue		
9	0-255	Blue Saturation 0 → 100%
10	0-255	All Dimmer
RGB Strobe Mode		
11	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast
	96-127	Open
	128-159	All Random Strobe: slow->fast
	160-191	Open

	192-223	All Single Random
	224-255	Open
12	0-255	Center Red
		Red Saturation 0 → 100%
13	0-255	Center Green
		Green Saturation 0 → 100%
14	0-255	Center Blue
		Blue Saturation 0 → 100%
15	0-255	Center Dimmer
16		Center RGB Strobe Mode
	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast
	96-127	Open
	128-159	All Pulse Strobe: slow->fast
	160-191	Open
	192-207	Single Random
	208-223	Random
	224-255	Open
17	0-255	CW (It needs to be turned on together with CW Dimmer to illuminate white light, controlling 156CH CW)
18	0-255	CW Dimmer
19		CW Strobe Mode
	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast CW
	96-127	Open
	128-159	All Random Strobe: slow->fast CW
	160-191	Open
	192-223	All Single Random CW
	224-255	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

20	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
	142-255	Idle
21		Control
	0-3	Idle
	4-7	Fan Mode: Auto
	8-11	Fan Mode: Silent
	12-15	Fan Mode: High
	16-19	Pan/Tilt Reset
	20-23	Pan Reset
	24-27	Tilt Reset
	28-31	Pan Tilt Speed 1
	32-35	Pan Tilt Speed 2
	36-39	Pan Tilt Speed 3
	40-43	Pan Tilt Speed 4
	44-47	Pan Tilt Shortest Path
	48-51	Pan Tilt Continue Pat
	52-55	Pan Range 540
	56-59	Pan Range 360
	60-63	Blackout with Movement On
	64-67	Blackout with Movement Off
	68-99	Idle
		Refresh Rate (Hz)
	100-104	900
	105-109	1000
	110-114	1100
	115-119	1200
	120-124	1300
	125-129	1400
	130-134	1500
	135-139	2500
	140-144	4000

145-149	5000
150-154	6000
155-159	10000
160-164	15000
165-169	20000
170-173	25000
Zone Flip	
175-176	Default Zone Arrangement
177-178	Flip Zones Horizontally
179-180	Flip Zones Vertically
181-182	Flip Zones Horizontally and Vertically
183-200	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

78CH	Value	Function
1	0-255	Red1
2	0-255	Green1
3	0-255	Blue1
	0-255	RGB...
34	0-255	Red12
35	0-255	Green12
36	0-255	Blue12
37	0-255	StrobeLine Red 1
38	0-255	StrobeLine Green 1
39	0-255	StrobeLine Blue 1
40	0-255	StrobeLine Red 2
41	0-255	StrobeLine Green 2
42	0-255	StrobeLine Blue 2
	0-255	StrobeLine Red...
	0-255	StrobeLine Green...
	0-255	StrobeLine Blue...
52	0-255	StrobeLine Red 6
53	0-255	StrobeLine Green 6
54	0-255	StrobeLine Blue 6
55	0-255	CW Strobe 1
56	0-255	CW Strobe 2
57	0-255	CW Strobe 3
58	0-255	CW Strobe 4
	0-255	CW Strobe...
66	0-255	CW Strobe 12
	0-255	CW Strobe...
78	0-255	CW Strobe 24

133CH	Value	Function
1	000-255	Pan
2	000-255	Pan fine
3	000-255	Tilt
4	000-255	Tilt fine
PAN Continuous rotation		
5	0-2	Disabled
	3-126	Rotate Clockwise Fast → Slow
	127-129	No Rotation
	130-253	Rotate Counter-Clockwise Fast → Slow
	254-255	No Rotation
6	0-255	Strobe Dimmer Intensity 0 → 100%
CW Strobe Mode		
7	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast
	96-127	Open
	128-159	All Pulse Strobe: slow->fast
	160-191	Open
	192-207	Single Random
	208-223	Random
	224-255	Open
8	0-255	RGB Dimmer-12 Intensity 0 → 100%
RGB Strobe Mode-12		
9	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast
	96-127	Open
	128-159	All Pulse Strobe: slow->fast
	160-191	Open
	192-207	Single Random
	208-223	Random
	224-255	Open
10	0-255	RGB Dimmer-12 Intensity 0 → 100%
RGB Center Strobe Mode		
11	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast
	96-127	Open
	128-159	All Pulse Strobe: slow->fast
	160-191	Open
	192-207	Single Random
	208-223	Random
	224-255	Open

12		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
	142-255	Idle
13		Control
	0-3	Idle
	4-7	Fan Mode: Auto
	8-11	Fan Mode: Silent
	12-15	Fan Mode: High
	16-19	Pan/Tilt Reset
	20-23	Pan Reset
	24-27	Tilt Reset
	28-31	Pan Tilt Speed 1
	32-35	Pan Tilt Speed 2
	36-39	Pan Tilt Speed 3
	40-43	Pan Tilt Speed 4
	44-47	Pan Tilt Shortest Path
	48-51	Pan Tilt Continue Path
	52-55	Pan Range 540
	56-59	Pan Range 360

	60-63	Blackout with Movement On
	64-67	Blackout with Movement Off
	68-99	Idle
		Refresh Rate (Hz)
	100-104	900
	105-109	1000
	110-114	1100
	115-119	1200
	120-124	1300
	125-129	1400
	130-134	1500
	135-139	2500
	140-144	4000
	145-149	5000
	150-154	6000
	155-159	10000
	160-164	15000
	165-169	20000
	170-174	25000
		Zone Flip
	175-176	Default Zone Arrangement
	177-178	Flip Zones Horizontally
	179-180	Flip Zones Vertically
	181-182	Flip Zones Horizontally and Vertically
	183-200	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
14	0-255	Red1
15	0-255	Green1
16	0-255	Blue1
...	0-255	RGB...
47	0-255	Red12
48	0-255	Green12
49	0-255	Blue12
50	0-255	CW Strobe 1
51	0-255	CW Strobe 2
52	0-255	CW Strobe 3
53	0-255	CW Strobe 4
...	0-255	CW Strobe...
97	0-255	CW Strobe 48
98	0-255	StrobeLine Red 1

99	0-255	StrobeLine Green 1
100	0-255	StrobeLine Blue 1
	0-255	StrobeLine Red...
	0-255	StrobeLine Green...
	0-255	StrobeLine Blue...
131	0-255	StrobeLine Red 12
132	0-255	StrobeLine Green 12
133	0-255	StrobeLine Blue 12

140CH	Value	Function
1	000-255	Pan
2	000-255	Pan fine
3	000-255	Tilt
4	000-255	Tilt fine
5		PAN Continuous rotation
	0-2	Disabled
	3-126	Rotate Clockwise Fast → Slow
	127-129	No Rotation
	130-253	Rotate Counter-Clockwise Fast → Slow
	254-255	No Rotation
6	0-255	CW Dimmer Intensity 0 → 100%
7		CW Strobe Mode
	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast
	96-127	Open
	128-159	All Pulse Strobe: slow->fast
	160-191	Open
	192-207	Single Random
	208-223	Random
	224-255	Open
8	0-255	RGB Dimmer Intensity 0 → 100%
9		RGB Strobe Mode
	0-31	Close
	32-63	Open
	64-95	All Strobe: slow->fast
	96-127	Open
	128-159	All Pulse Strobe: slow->fast
	160-191	Open
	192-207	Single Random
	208-223	Random
	224-255	Open

10		RGB Variable CCT
	0-23	Open
	24-85	2400K → 8500K (See Sheet)
	96-255	8500K
11		RGB Color Wheel
	0	Open
	1-179	Virtual Swatch Book (See Table)
		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
12	245-249	Slow
	250-255	Open
		CW Strobe Effect Selelection
	0-15	No Function
	16-21	FX Selection 1
	22-27	FX Selection 2
	28-33	FX Selection 3
	34-39	FX Selection 4
	40-45	FX Selection 5
	46-51	FX Selection 6
	52-57	FX Selection 7
	58-63	FX Selection 8
	64-69	FX Selection 9
	70-75	FX Selection 10
	76-81	FX Selection 11
	82-87	FX Selection 12
	88-93	FX Selection 13
	94-99	FX Selection 14
	100-105	FX Selection 15
	106-111	FX Selection 16
	112-117	FX Selection 17
	118-123	FX Selection 18
	124-129	FX Selection 19
	130-135	FX Selection 20
	136-141	FX Selection 21
	142-147	FX Selection 22
	148-153	FX Selection 23
	154-159	FX Selection 24
	160-165	FX Selection 25
	166-171	FX Selection 26
	172-177	FX Selection 27

	178-183	FX Selection 28
	184-189	FX Selection 29
	190-195	FX Selection 30
	196-201	FX Selection 31
	202-207	FX Selection 32
	208-213	FX Selection 33
	214-219	FX Selection 34
	220-225	FX Selection 35
	226-231	FX Selection 36
	232-237	FX Selection 37
	238-243	FX Selection 38
	244-249	FX Selection 39
	250-255	FX Selection 40
13		CW Strobe Effect Speed
	0-126	Slow → Fast
	127-128	Stop
	129-255	Rev Fast → Slow
14		CW Strobe Effect Offset
	0	Idle
	1	Fixture Offset 10 Degrees
	2	Fixture Offset 20 Degrees
	3-34	Fixture Offset...
	35	Fixture Offset 350 Degrees
	36	Synchronized
	37-49	Random Fixture Offset
	50-59	Random Pixel Order
	60-69	Random Steps
	70-79	Idle
		Effect Fade
	80-89	Sinewave- Cross
	90-99	Sinewave- Full
	100-109	Sawtooth- Cross
	110-119	Sawtooth- Full
	120-129	Ramp Up
	130-139	Ramp Down
	140-149	Steps
	150-255	Idle
15		RGB Color Wheel Background
	0	Close
	1-179	Virtual Swatch Book (See Table)
		Color Scroll
	180-201	Clockwise Fast → Slow
	202-207	Stop
	208-229	Counter-clockwise Slow → Fast
	230-234	Close
		Random Slots

	235-239	Fast
	240-244	Medium
	245-249	Slow
	250-255	Close
		RGB Effect Selection
16	0-15	No Function
	16-21	FX Selection 1
	22-27	FX Selection 2
	28-33	FX Selection 3
	34-39	FX Selection 4
	40-45	FX Selection 5
	46-51	FX Selection 6
	52-57	FX Selection 7
	58-63	FX Selection 8
	64-69	FX Selection 9
	70-75	FX Selection 10
	76-81	FX Selection 11
	82-87	FX Selection 12
	88-93	FX Selection 13
	94-99	FX Selection 14
	100-105	FX Selection 15
	106-111	FX Selection 16
	112-117	FX Selection 17
	118-123	FX Selection 18
	124-129	FX Selection 19
	130-135	FX Selection 20
	136-141	FX Selection 21
	142-147	FX Selection 22
	148-153	FX Selection 23
	154-159	FX Selection 24
	160-165	FX Selection 25
	166-171	FX Selection 26
	172-177	FX Selection 27
	178-183	FX Selection 28
	184-189	FX Selection 29
	190-195	FX Selection 30
	196-201	FX Selection 31
	202-207	FX Selection 32
	208-213	FX Selection 33
	214-219	FX Selection 34
	220-225	FX Selection 35
	226-231	FX Selection 36
	232-237	FX Selection 37
	238-243	FX Selection 38
	244-249	FX Selection 39
	250-255	FX Selection 40

17		RGB Effect Speed
	0-126	Slow → Fast
	127-128	Stop
	129-255	Rev Fast → Slow
18		RGB Effect Offset
	0	Idle
	1	Fixture Offset 10 Degrees
	2	Fixture Offset 20 Degrees
	3-34	Fixture Offset...
	35	Fixture Offset 350 Degrees
	36	Synchronized
	37-49	Random Fixture Offset
	50-59	Random Pixel Order
	60-69	Random Steps
	70-79	Idle
		Effect Fade
	80-89	Sinewave- Cross
	90-99	Sinewave- Full
	100-109	Sawtooth- Cross
	110-119	Sawtooth- Full
	120-129	Ramp Up
	130-139	Ramp Down
	140-149	Steps
	150-255	Idle
19		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
	142-255	Idle
20		Control
	0-3	Idle
	4-7	Fan Mode: Auto
	8-11	Fan Mode: Silent
	12-15	Fan Mode: High
	16-19	Pan/Tilt Reset
	20-23	Pan Reset
	24-27	Tilt Reset
	28-31	Pan Tilt Speed 1
	32-35	Pan Tilt Speed 2
	36-39	Pan Tilt Speed 3
	40-43	Pan Tilt Speed 4
	44-47	Pan Tilt Shortest Path
	48-51	Pan Tilt Continue Path
	52-55	Pan Range 540
	56-59	Pan Range 360
	60-63	Blackout with Movement On
	64-67	Blackout with Movement Off
	68-99	Idle
		Refresh Rate (Hz)
	100-104	900
	105-109	1000
	110-114	1100
	115-119	1200
	120-124	1300
	125-129	1400
	130-134	1500
	135-139	2500
	140-144	4000
	145-149	5000
	150-154	6000
	155-159	10000
	160-164	15000
	165-169	20000
	170-174	25000
		Zone Flip
	175-176	Default Zone Arrangement
	177-178	Flip Zones Horizontally

179-180	Flip Zones Vertically
181-182	Flip Zones Horizontally and Vertically
183-200	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
21	0-255 Red1
22	0-255 Green1
23	0-255 Blue1
...	0-255 RGB...
54	0-255 Red12
55	0-255 Green12
56	0-255 Blue12
	0-255 RGB...
	0-255 Red24
	0-255 Green24
	0-255 Blue24
57	0-255 CW Strobe 1
58	0-255 CW Strobe 2
59	0-255 CW Strobe 3
60	0-255 CW Strobe 4
...	0-255 CW Strobe...
104	0-255 CW Strobe 48
105	0-255 StrobeLine Red 1
106	0-255 StrobeLine Green 1
107	0-255 StrobeLine Blue 1
...	0-255 StrobeLine Red...
...	0-255 StrobeLine Green...
...	0-255 StrobeLine Blue...
138	0-255 StrobeLine Red 12
139	0-255 StrobeLine Green 12
140	0-255 StrobeLine Blue 12

Block distribution map

Note: Pan Degree is 360 degrees, with the display facing towards oneself,
Pan=128, Tilt=255 ■ RGB □ CW

180CH&156CH PixelZone

1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12
25	26	27	28	29	30	31	32	33	34	35	36
13	14	15	16	17	18	19	20	21	22	23	24
37	38	39	40	41	42	43	44	45	46	47	48

78CH PixelZone

1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
7	8	9	10	11	12	13	14	15	16	17	18
13	14	15	16	17	18	19	20	21	22	23	24

55CH Pixel Zoning

1		
1	2	3
2		
7	8	9
3		
4	5	6
4		

140&133CH Pixel Zoning

1	2	3	4	5	6	7	8	9	10	11	12	CW
1	2	3	4	5	6	7	8	9	10	11	12	RGB
13	14	15	16	17	18	19	20	21	22	23	24	CW
13	14	15	16	17	18	19	20	21	22	23	24	RGB
25	26	27	28	29	30	31	32	33	34	35	36	CW
7	8	9	10	11	12	13	14	15	16	17	18	RGB
37	38	39	40	41	42	43	44	45	46	47	48	CW

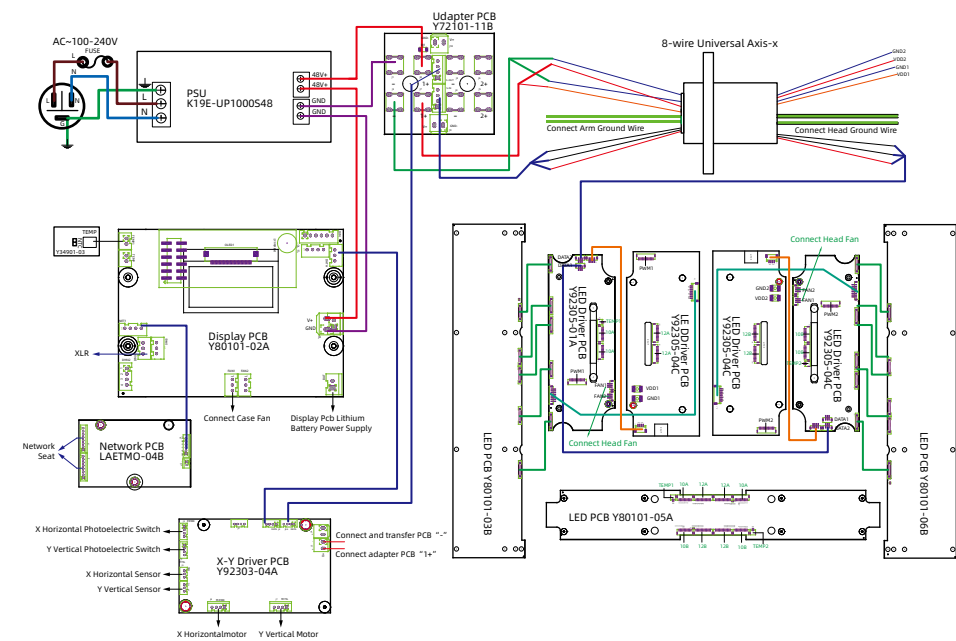
KlingNet Map

RGB 1	RGB 2	RGB 3	RGB 4	RGB 5	RGB 6	CW Strobe
RGB 7	RGB 8	RGB 9	RGB 10	RGB 11	RGB 12	RGB Zone
RGB 13	RGB 14	RGB 15	RGB 16	RGB 17	RGB 18	RGB Zone
RGB 19	RGB 20	RGB 21	RGB 22	RGB 23	RGB 24	CW Strobe
RGB 25	RGB 26	RGB 27	RGB 28	RGB 29	RGB 30	RGB Strobe Line
						CW Strobe
						RGB Zone
						RGB Zone
						CW Strobe

Virtual Colors

Value	Filter Number	Name	Value	Filter Number	Name
1	7	pale yellow	32	49	medium purple
2	103	straw	33	58	lavender
3	151	gold tint	34	199	palace blue
4	100	spring yellow	35	119	dark blue
5	10	medium yellow	36	132	medium blue
6	101	yellow	37	120	deep blue
7	104	deep amber	38	165	daylight blue
8	15	deep straw	39	161	slate blue
9	179	loving amber	40	118	light blue
10	21	gold amber	41	68	sky blue
11	105	orange	42	143	pale navy blue
12	158	deep orange	43	131	marine blue
13	22	dark amber	44	115	peacock blue
14	778	millenium gold	45	172	lagoon blue
15	135	deep golden amber	46	116	medium blue green
16	24	scarlet	47	90	dark yellow green
17	106	primary red	48	139	primary green
18	26	bright red	49	122	fern green
19	27	medium red	50	89	moss green
20	19	fire	51	124	dark green
21	157	pink	52	88	lime green
22	36	medium pink	53	138	pale green
23	111	dark pink	54	203	Quarter CT Blue
24	128	bright pink	55	202	Half CT Blue
25	148	bright rose	56	201	FULL CT Blue
26	332	special rose pink	57	200	double CT Blue
27	793	vanity fair	58	206	Quarter CT Orange
28	113	magenta	59	205	Half CT Orange
29	46	dark magenta	60	204	FULL CT Orange
30	48	rose purple	61-179		No function
31	126	mauve			

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 the 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 damaged	Replace
	Power pcb malfunction	Check/ replace
	Loose or poor contact of the circuit	Reconnect
	Switching power supply 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 on the power circuit pcb	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 the light guide column
	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 interferences within the operating range of the fan	Adjust the interference object
 Attention! The above analysis is for abnormal reference only. Non professionals are not allowed to disassemble and repair the machine		

