Alligator IP

User Manual

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TECHNICAL PARAMETERS

Light source

Input voltage and frequency: 200-240VAC，50-60Hz

Power: Dynamic : 920W@230V Static : 910W@230V Theoretical power of flicker: 1500W@230V

Fuse: T15A，250V

Power supply: 200-240VAC，50-60Hz，900W peak power 1800W

Consumption: 0.96@230V

Light source:Front panel ：RGBW，420W； Front panel ：WW+CW，280W； Back panel ：RGBW，700W；

Color temperature: Front : W:7300K±100K; WW:2700± 100K; CW:8000K±100K ; Back W : 3200K ± 100K adjustable color temperature : 2800 to 8000 K

Optical

Whole optical output: Front small angle : total length : 7600 meters, total length : 570 meters ; G :1400Lm； B:250Lm； Width : 1800Lm ; RGBW:3700Lm

WW :1680Lm； Clockwise : 2200Lm

Front end large angle : total length : 9600 meters, total length : 920 meters ;

G:2200Lm； B:390Lm； Width : 2900Lm ; RGBW:5800Lm

WW :1680Lm； Clockwise : 2200Lm

Back: Total : 18000Lm ; R:2500Lm； G:6600Lm； B :1200Lm； Width : 8100Lm

illuminance: Front : Small angle total : 52000Lux@3M; Large angle ALL : 2100Lux@3 M; Back ALL: 800Lux@3M

Rendering Index: Ra≥68

DUV: 0.0001-0.009

Dominant Wavelength: Front R: 620nm； G:526nm； B: 453mm Back R: 623nm； G:526nm ； B: 457 nanometre

TM-30-15rg/rf: 98/83

TLCI: 70

Light source lifespan: 20000 hours

Beam angle: Frond ： 3 ° ~ 37 ° Back ： 70 °.

Flood angle: Frond ： 4 ° ~ 51 ° Back ： 124 °.

Zoom: Beam Angle 3 ° – 37 °

Controls

Power connection: PowerCon In

Data Connections: 3-pin DMX signal socket input/output, maximum connection quantity of 32 units, Art Net input/output

control mode: DMX512/RDM/Art Net

DMX: CH 26CH/50CH/84CH/98CH

Display: 2.83-inch TFT display screen with manual reverse function, long press Enter key to set menu in power-off state

Effect

Color System: Front : RGBW+WW+CW color mixing ; Back: RGBW color mixing
Strobe: 0～30Hz
Dimming: 4 dimming curves, 0 – 100% variable
Refresh rate: 600Hz、1200Hz、2000HZ、4000HZ、6000HZ、25KHZ
Pixel matrix:Overall control, point by point control, segment by segment control

Construction

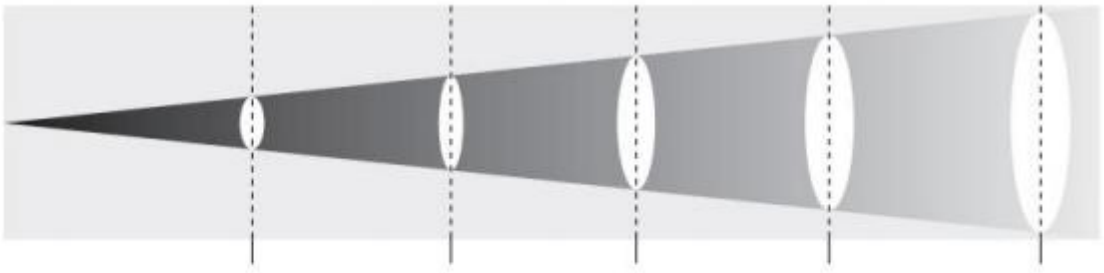
Pan:Infinite rotation
Tilt: Infinite rotation
temperature: 0～45 °
protection grade: IP65
cooling system: Low noise fan for forced ventilation
housing: Black environmentally friendly flame-retardant nylon
Installation method: Flat ground, side hanging, hanging installation

Weight&Dimension

Product size ： 755*241*490mm
N.W：28.5 kg

illumination map

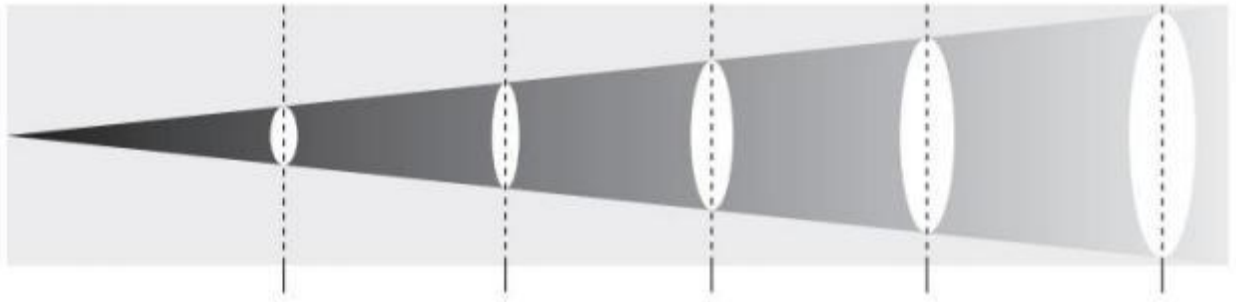
Front beam angle ： 3 °/37 °



角度：3°					
距离(M)	3	5	7	10	20
照度(lux)	52000	27600	18600	11800	1170
光斑直径(M)	0.15	0.25	0.35	0.5	1

角度：37°					
距离(M)	3	5	7	10	20
照度(lux)	2000	720	367	180	45

Back beam angle :70 °



距离(M)	3	5	7	10	20
照度(lux)	810	291	148	73	32
光斑直径(M)	4.2	7	9.8	14	21

1. Safety

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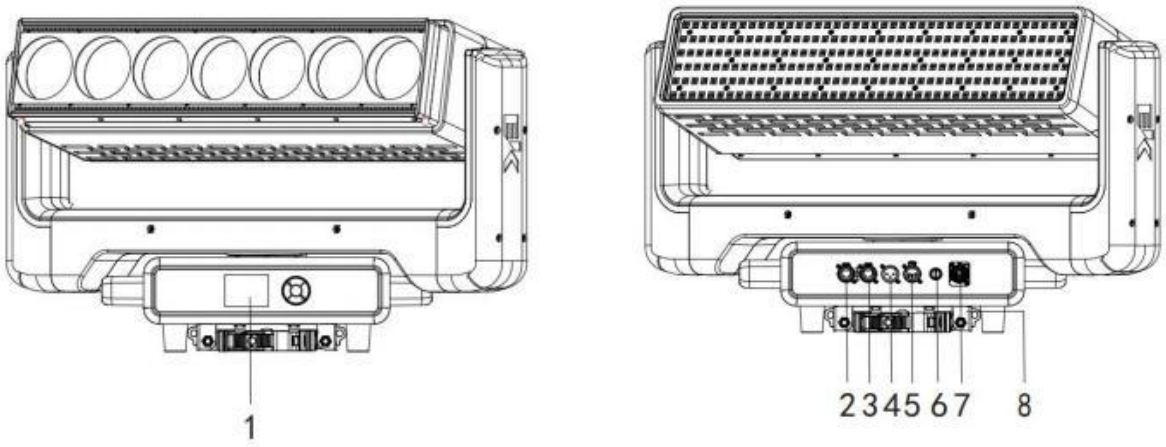
All products are packaged intact when they leave the factory. Please follow the user manual for operation. Machine malfunctions caused by human factors are not covered by the warranty。

- The light source should be replaced by the manufacturer, its service agent, or a similarly
- qualified person. If the external soft cable or wire of this lamp is damaged, the wire should be replaced by a qualified person from the manufacturer or its service agent to avoid danger.
- After receiving the product, please unpack and check for any damage caused by transportation. If there is any damage, do not use this lamp and promptly contact the supplier or manufacturer.
- This product is suitable for indoor use with a protection level of IP20. The lighting fixtures
- should be kept clean and avoid use in damp or dusty environments. They should be maintained every three months.
- Only qualified professionals are allowed to install, operate, and maintain lighting fixtures, and ensure strict adherence to the procedures described in this instruction manual.
- The lighting fixtures should be installed in a well ventilated area, at least 50cm away from the wall, and the ventilation holes should be checked for smoothness. Do not look directly at the
- light source to avoid eye damage。
- Please do not turn on the light fixture for self repair.
- The electrical connections must be operated by qualified installers.
- Each lighting fixture should be safely grounded and electrically installed according to relevant standards.
- Do not use power cords with damaged insulation layers, and do not place the power cord on other
- wires. When the lamp is not in use or cleaned, please unplug the power cord and do not forcefully unplug or drag the power cord directly.
- If the back cover of the lamp is equipped with a safety buckle or connection hole, for safety reasons, please use a safety rope to thread into the connection hole for auxiliary lifting.
- After 10 minutes of full power operation, the surface of the lamp is about 40 degrees, and the temperature of the lamp surface should be around 70 degrees after stable operation.
- There are no user repairable components inside this lamp. Before starting to operate the lamp,
- please check whether all parts are well connected and whether the screws are reliable and secure.
- If you have any further doubts, please promptly contact the supplier or manufacturer.

2. Control panel



1.CONTROL PANEL
2/3. RJ45 for Art-Net
4. 3p in(or 5p in) XLR In for DMX
5. 3p in(or 5p in) XLR In for DMX
6. Fuse
7. PowerCon In
8. Clamp

Display panel button function description

Startup initialization : left and right keys
Shortcut : When on the main interface, long press both the up and down buttons for 3 seconds to display in reverse ;
Battery display : Without an external power source, long press the right button for 3 seconds to enter the settings menu parameters ;

MODE	ILLUSTRATION	FUNCTION DESCRIPTION	EFFECT
MENU	Menu Option	Enter the menu	Menu operation
UP	Up	Scroll up	Increase the numeric value
DOWN	Down	Scroll down	Decrease the numeric value
ENTER	Confirm	Confirm	Save the function
OK	Confirm	Confirm	Save the function

3. Setup

3.1 Setup

option	describe	
DMX address	001-512	Press the 'OK' button to enter editing mode. At this point, select the hundred digits and press the "up" and "down" keys to change the address code. Press the 'OK' button again to select ten editors. Press the 'OK' button again to select a position for editing. Press again to exit editing mode

DMX CH	50CH	50 CH mode
	26CH	26 CH mode
	98CH	98 CH mode
	84CH	84 CH mode
Protocol	DMX512	DMX512
	sACN	sACN
	Art-Net	Art-Net
ethernet settings	Value	1-255
	IP	2.0.0.10
	subnet	255.0.0.0

3.2 Opt ion

option	describe	
Reverse X-axis	ON	Reverse opening of X-axis
	OFF	Reverse closure of X-axis
XY encoder	ON	Use an encoder (optocoupler) to determine out of step and automatically correct the position
	OFF	Correct the position without using an encoder (optocoupler)
Error message	ON	Open error message
	OFF	Turn off error prompts
Backlight	ON	Turn off the screen after 30 seconds
	OFF	Always on
Display Reverse	ON	Flip and open the display panel
	OFF	Display board flip off
language	Chinese	Chinese switching
	English	English switching
Key lock	ON	Key lock open
	OFF	Key lock closed
Fan mode	automatic	Follow the temperature
	high speed	High speed operation
	theater	Silent operation
Dimming mode	close	No delay
	Mode 1	Low dimming delay
	Mode 2	Dimming delay in progress
	Mode 3	High dimming delay
Dimming curve	Curve 1	straight line
	Curve 2	index
	Curve 3	logarithm
	Curve 4	sine
Pwm frequency	25KHz	Dimming Pwm frequency 25KHz
	16KHz	Dimming Pwm frequency 16KHz
	6000HZ	Dimming Pwm frequency 6000HZ
	4000HZ	Dimming Pwm frequency 4000HZ
	2000HZ	Dimming Pwm frequency 2000HZ
	1200HZ	Dimming Pwm frequency 1200HZ

	600HZ	Dimming Pwm frequency 600HZ
Lamp board reverse	ON	LED reverse
	OFF	default
reset all	confirm	After pressing the "OK" button, you will see a confirmation dialog box. Press the "OK" button again to reset everything
	cancel	
XY reset	confirm	After pressing the "OK" button, you will see a confirmation dialog box. Press the "OK" button again to reset XY
	cancel	
Amplify and reset	confirm	After pressing the "OK" button, you will see a confirmation dialog box. Press the "OK" button again to zoom in and reset
	cancel	

3.3 System

option	describe	
system error		From here, enter the sub interface to view system error messages
system version	Ver	Display software version
	DIS	Display board software version
	XY	Display XY board software version
	MT	Motor board software version
Usage time	Total usage	Record the total usage time of the lighting fixtures
	This use	Record the usage time of the lighting fixtures this time
temperature	Temperature 1	Display temperature
	Temperature 2	Display temperature
	Power supply temperature	Display power temperature
UID		RDM ID
Xy Hall	0000	
Focusing Hall	0000	
X encoding step value	0000	When walking in the forward direction, the step value should increase, and when walking in the reverse direction, the step value should decrease. The value remains normal every time it reaches the same point
Y encoding step value	0000	When walking in the forward direction, the step value should increase, and when walking in the reverse direction, the step value should decrease. The value remains normal every time it reaches the same point

3.4 Test

option	describe		
self-propelled	OFF		Close self-propelled mode
	all		Lamp beads and motor self-propelled
	amplify		Enlarge up and down self-propelled
	color		Lamp beads alternate in sequence
	XY		XY self-propelled

Manual	1CH.	0-255	Press the 'OK' button to enter editing mode. At this point, select the hundredth digit and press the "up" and "down" keys to change the channel value. Press the 'OK' button again to select ten editors. Press the 'OK' button again to select a position for editing. Press again to exit editing mode
	……		
	15CH.	0-255	
	……		

3.5 Advanced

option	describe	
Motor calibration	Pan calibration	After entering the sub interface, the reset positions of motors such as X-axis and Y-axis can be adjusted to compensate for hardware installation errors. The adjustment range is -128~+127, and+0 indicates no adjustment。
	Tilt calibration	
	Magnify calibration	
color calibration	R	After entering the sub interface, the reset position of the color motor can be adjusted to compensate for errors. The adjustment range is -128~+127, and+0 indicates no adjustment.
	G	
	B	
	W	
Factory settings	After pressing the "OK" button, you will see a confirmation dialog box. Press the "OK" button again to restore the factory settings	

4. Installation and Connection

4.1 Precautions

This product is designed for outdoor use and has a protection level of IP20. The lighting fixtures should be kept clean and maintained every three months.

Only qualified professionals are allowed to install, operate, and maintain lighting fixtures, and ensure strict adherence to the procedures described in this instruction manual.

The lighting fixtures should be installed in a well ventilated area, at least 50cm away from the wall, and the ventilation holes should be checked for smoothness. Do not look directly at the light source to avoid eye damage. The part where electrical connections are made must require qualified installation personnel to enter

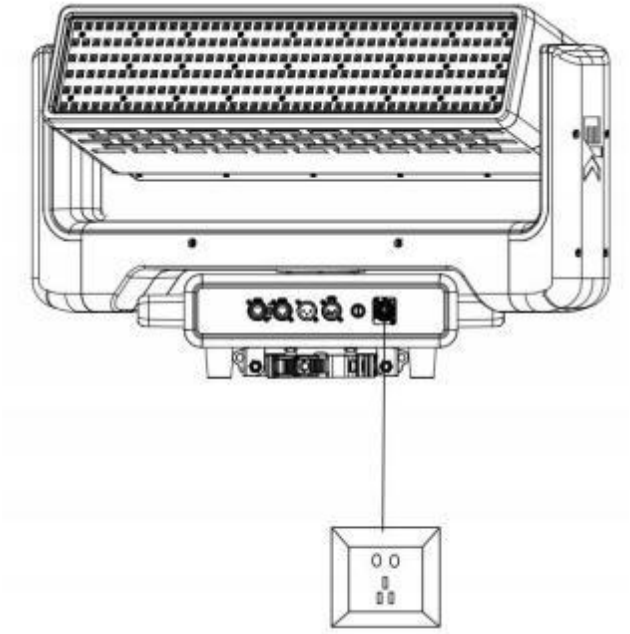
Perform operations. Each lighting fixture should be safely grounded and electrically installed according to relevant standards.

Do not use power cords with damaged insulation layers, and do not place the power cord on other wires. When the lamp is not in use or cleaned, please unplug the power cord and do not forcefully unplug or drag the power cord directly.

If the back cover of the lamp is equipped with a safety buckle or connection hole, for safety reasons, please use a safety rope to thread into the connection hole for auxiliary lifting.

Regularly maintain the optical components of the lighting fixtures: wipe off dust and remove oil stains.

4.2 power connection

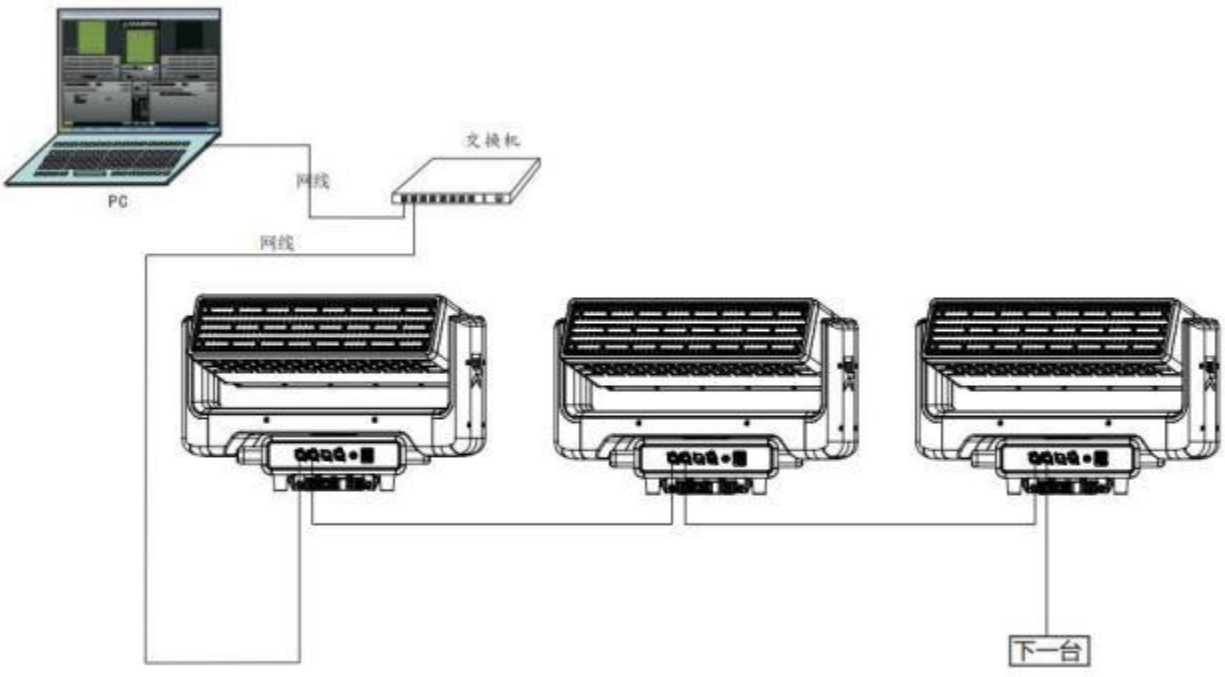


Power In

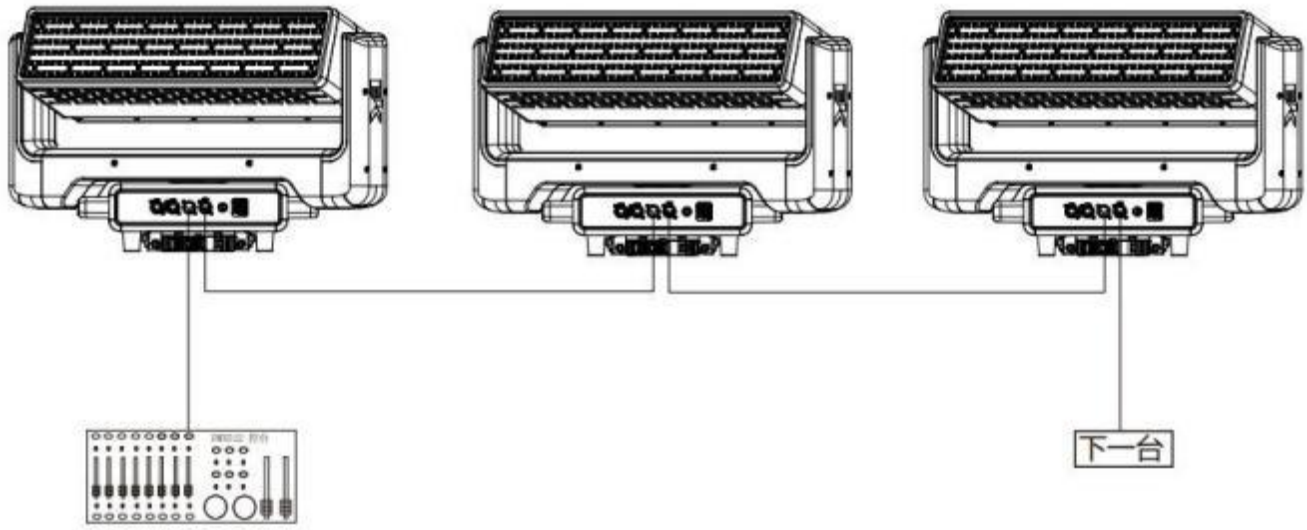
Using Power Con In power cable connected in series
Attention: due to power rating, one 1.5mm² power cable can connect 1 unit maximum

Do not connect more than 1 unit in series with one power cable
Do not use damage power cable
Power off the fixture when not in use

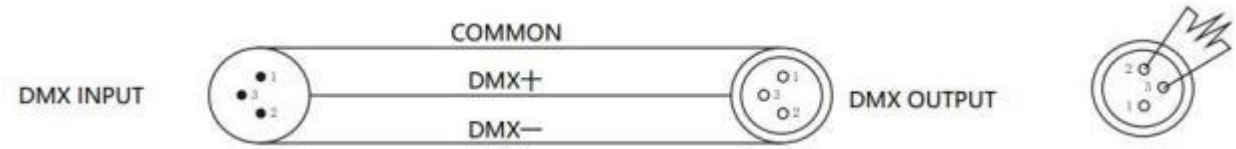
4.3 Signal Connection
network connections



DMX connections



DMX Connection instructions



- To reduce signal errors and avoid signal attenuation and interference during transmission, a 120 ohm 1/4W resistor can be added between the 2-core and 3-core outputs of the last machine's DMX.
- Connect the lamp with an XLR signal cable, with one end connected to the output port of the lamp and the other end connected to the input port of the next lamp. Signal lines can only be used in series and cannot be connected in parallel. Due to the fast signal transmission speed of DMX512, damage to the signal line, weak soldering, poor contact, etc. can affect signal transmission and cause the system to shut down.
- When the machine power supply of a certain unit is disconnected, the connection between the output and input of the DMX is bypassed to maintain the connectivity of the DMX circuit.
- Each lamp must have an address code that can receive information from the control panel.
- The terminal of the DMX512 system needs to be equipped with a terminator to reduce signal transmission errors.

DMX Address code setting

CH	Address	First address	Second address	Third address	Fourth address
26 CH	001-026	001	027	053	079

5. CH table

5.1 Channel（26CH）

26Ch Mode				
DMX/ NET	**DMX+NET**	**Function**	**Value**	**Percent/Setting**
1	1	Pan Rotation	000-003	Indexing
			004-129	Fast to Slow(Forward Spin)
			130-255	Slow to Fast(Revers Spin)
2	2	Pan	000-255	Positioning from 0-540 degrees(Indexing)
3	3	Pan Fine	000-255	
4	4	Tilt Rotation	000-003	Indexing
			004-129	Fast to Slow(Forward Spin)
			130-255	Slow to Fast(Revers Spin)
5	5	Tilt	000-255	Positioning from 0-540 degrees(Indexing)
6	6	Tilt Fine	000-255	
7	7	Zoom	000-255	From narrow to wide beam
8	8	Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
9	9	Dimmer	000-255	0~ 100%
10	10	White Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
11	11	White Dimmer	000-255	0~ 100%
12	12	Panel Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
13	13	Panel Dimmer	000-255	0~ 100%
14	14	Device Setting	000-005	No Function
			026-076	Head Reset (Hold 5S)
			077-127	Pan/Tilt Reset (Hold 5S)
			128-178	Complete Reset(Hold 5S)
			179-192	No Function
			193-200	Dimmer Mode 1
			201-208	Dimmer Mode 2
			209-216	Dimmer Mode 3

			217-224	Dimmer Mode 4
			225-255	No Function
15	1	Red	000-255	0~ 100%
16	2	Green	000-255	0~ 100%
17	3	Blue	000-255	0~ 100%
18	4	White	000-255	0~ 100%
19	5	Top Cool White	000-255	0~ 100%
20	6	Top Warm White	000-255	0~ 100%
21	7	Bottom Cool White	000-255	0~ 100%
22	8	Bottom Warm White	000-255	0~ 100%
23	9	Panel Red	000-255	0~ 100%
24	10	Panel Green	000-255	0~ 100%
25	11	Panel Blue	000-255	0~ 100%
26	12	Panel White	000-255	0~ 100%

5.2 Channel（50CH）

50 Ch Mode				
DMX/ NET	**DMX+NET**	**Function**	**Value**	**Percent/Setting**
1	1	Pan Rotation	000-003	Indexing
			004-129	Fast to Slow(Forward Spin)
			130-255	Slow to Fast(Revers Spin)
2	2	Pan	000-255	Positioning from 0-540 degrees(Indexing)
3	3	Pan Fine	000-255	
4	4	Tilt Rotation	000-003	Indexing
			004-129	Fast to Slow(Forward Spin)
			130-255	Slow to Fast(Revers Spin)
5	5	Tilt	000-255	Positioning from 0-540 degrees(Indexing)
6	6	Tilt Fine	000-255	
7	7	Zoom	000-255	From narrow to wide beam
8	8	Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
9	9	Dimmer	000-255	0~ 100%
10	10	CTO	000-009	OFF
			010-255	CTO 8000K~2700K
11	11	Background CTO	000-009	OFF
			010-255	CTO 8000K~2700K
			000-005	No Function
			006-015	Efect 1
			016-023	Efect 2
			024-031	Efect 3

12	12	Efects	032-038	Efect 4
			039-046	Efect 5
			047-054	Efect 6
			055-062	Efect 7
			063-069	Efect 8
			070-077	Efect 9
			078-085	Efect 10
			086-093	Efect 11
			094-100	Efect 12
			101-108	Efect 13
			109-116	Efect 14
			117-124	Efect 15
			125-131	Efect 16
			132-139	Efect 17
			140-147	Efect 18
			148-155	Efect 19
			156-162	Efect 20
			163-170	Efect 21
			171-178	Efect 22
			179-186	Efect 23
			187-193	Efect 24
			194-201	Efect 25
			202-209	Efect 26
			210-217	Efect 27
			218-224	Efect 28
			225-232	Efect 29
			233-240	Efect 30
			241-248	Efect 31
			249-255	Efect 32
13	13	Efects speed	000-124	Normal
			125-130	Static
			131-255	Dynamic
14	14	White Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
15	15	White Dimmer	000-255	0~ 100%
16	16	White CTO	000-009	OFF
			010-255	CTO 8000K~2700K
17	17	White Background CTO	000-009	OFF
			010-255	CTO 8000K~2700K
			000-005	No Function
			006-015	Efect 1
			016-023	Efect 2
			024-031	Efect 3
			032-038	Efect 4
			039-046	Efect 5
			047-054	Efect 6

18	18	White Efects	055-062	Efect 7
			063-069	Efect 8
			070-077	Efect 9
			078-085	Efect 10
			086-093	Efect 11
			094-100	Efect 12
			101-108	Efect 13
			109-116	Efect 14
			117-124	Efect 15
			125-131	Efect 16
			132-139	Efect 17
			140-147	Efect 18
			148-155	Efect 19
			156-162	Efect 20
			163-170	Efect 21
			171-178	Efect 22
			179-186	Efect 23
			187-193	Efect 24
			194-201	Efect 25
			202-209	Efect 26
			210-217	Efect 27
			218-224	Efect 28
			225-232	Efect 29
			233-240	Efect 30
			241-248	Efect 31
			249-255	Efect 32
19	19	White effect speed	000-124	normal
			125-130	static
			131-255	dynamics
20	20	Backend strobe	000-003	Light off
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light on
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light on
			213-225	Random slow strobe
			226-238	Random medium strobe
			239-251	Random fast strobe
			252-255	Light on
21	21	Backend dimming	000-255	0~100%
22	22	Rear end color temperatur e	000-009	off
23	23	Back end background color temperature	010-255	CTO 8000K~270k
			000-009	off
24	24	Panel Efects	000-005	No function
			006-015	Efect 1
			016-023	Efect 2
			024-031	Efect 3
			032-038	Efect 4
			039-046	Efect 5
			047-054	Efect 6
			055-062	Efect 7

			063-069	Efect 8
			070-077	Efect 9
			078-085	Efect 10
			086-093	Efect 11
			094-100	Efect 12
			101-108	Efect 13
			109-116	Efect 14
			117-124	Efect 15
			125-131	Efect 16
			132-139	Efect 17
			140-147	Efect 18
			148-155	Efect 19
			156-162	Efect 20
			163-170	Efect 21
			171-178	Efect 22
			179-186	Effect 23
			187-193	Efect 24
			194-201	Efect 25
			202-209	Efect 26
			210-217	Efect 27
			218-224	Efect 28
			225-232	Efect 29
			233-240	Efect 30
			241-248	Efect 31
			249-255	Efect 32
25	25	Panel Efects speed	000-124	Normal
			125-130	Static
			131-255	Dynamic
26	26	Device Setting	000-005	No Function
			026-076	Head Reset (Hold 5S)
			077-127	Pan/Tilt Reset (Hold 5S)
			128-178	Complete Reset(Hold 5S)
			179-192	No Function
			193-200	Dimmer Mode 1
			201-208	Dimmer Mode 2
			209-216	Dimmer Mode 3
			217-224	Dimmer Mode 4
			225-255	No Function
27	1	Red	000-255	0~ 100%
28	2	Green	000-255	0~ 100%
29	3	Blue	000-255	0~ 100%
30	4	White	000-255	0~ 100%
31	5	Background Red	000-255	0~ 100%
32	6	Background Green	000-255	0~ 100%
33	7	Background Blue	000-255	0~ 100%
34	8	Background White	000-255	0~ 100%
35	9	Top Cool White	000-255	0~ 100%
36	10	Top Warm White	000-255	0~ 100%

37	11	Bottom Cool White	000-255	0~ 100%
38	12	Bottom Warm White	000-255	0~ 100%
39	13	Backgroun d Top Cool White	000-255	0~ 100%
40	14	Backgroun d Top Warm White	000-255	0~ 100%
41	15	Background Bottom Cool White	000-255	0~ 100%
42	16	Background	000-255	0~ 100%
		Bottom Warm White		
43	17	Red	000-255	0~ 100%
44	18	Green	000-255	0~ 100%
45	19	Blue	000-255	0~ 100%
46	20	White	000-255	0~ 100%
47	21	Background Red	000-255	0~ 100%
48	22	Background Green	000-255	0~ 100%
49	23	Background Blue	000-255	0~ 100%
50	24	Background White	000-255	0~ 100%

5.3 Channel（84CH）

DMX/NET	Function	Value	Percent/Setting
1.	Pan infinite rotation	000-003	Indexing
		004-129	Fast to Slow(Forward Spin)
		130-255	Slow to Fast(Revers Spin)
2.	Pan	000-255	Positioning from 0-540 degrees(Indexing)
3.	Pan Fine	000-255	
4.	Tilt infinite rotation	000-003	Indexing
		004-129	From fast to slow (forward rotation)
		130-255	From slow to fast (reverse rotation)
5.	Tilt	000-255	Positioning from 0-540 degrees(Indexing)
6.	Tilt Fine	000-255	
7.	Zoom	000-255	From narrow to wide
8.	Strobe	000-003	Light on
		004-103	Strobe from low (1Hz) to fast (25Hz)
		104-107	Light on
		108-207	slow pulse
		208-212	Light on
		213-225	Random slow strobe
		226-238	Random medium strobe
		239-251	Random fast strobe
		252-255	Light on
9	Total dimming	000-255	0~100%

10	White strobe	000-003	Light off
		004-103	Strobe from low (1Hz) to fast (25Hz)
		104-107	Light on
		108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
		208-212	Light on
		213-225	Random slow strobe
		226-238	Random medium strobe
		239-251	Random fast strobe
		252-255	Light on
11	White dimming	000-255	0~100%
12	Back strobe	000-003	Light off
		004-103	Strobe from low (1Hz) to fast (25Hz)
		104-107	Light on
		108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
		208-212	Light on
		213-225	Random slow strobe
		226-238	Random medium strobe
		239-251	Random fast strobe
		252-255	Light on
13	Back dimming	000-255	0~100%
14	Control	000-005	No Function
		026-076	Head Reset (Hold 5S)
		077-127	Pan/Tilt Reset (Hold 5S)
		128-178	Complete Reset(Hold 5S)
		179-192	No Function
		193-200	Dimmer Mode 1
		201-208	Dimmer Mode 2
		209-216	Dimmer Mode 3
		217-224	Dimmer Mode 4
		225-255	No Function
15	R 1	000-255	0~100%
16	G 1	000-255	0~100%
17	B 1	000-255	0~100%
18	W 1	000-255	0~100%
19	R 2	000-255	0~100%
20	G 2	000-255	0~100%
21	B 2	000-255	0~100%
22	W 2	000-255	0~100%
	...	000-255	0~100%
	...	000-255	0~100%
	...	000-255	0~100%
39	R 7	000-255	0~100%
40	G 7	000-255	0~100%
41	B 7	000-255	0~100%
42	W 7	000-255	0~100%
43	Cold white 1	000-255	0~100%
44	Warm white 1	000-255	0~100%
45	Cold white 2	000-255	0~100%
46	Warm white 2	000-255	0~100%
	...	000-255	0~100%
	...	000-255	0~100%
	...	000-255	0~100%
53	Cold white 6	000-255	0~100%
54	Warm white 6	000-255	0~100%
55	Cold white 7	000-255	0~100%

56	Warm white 7	000-255	0~100%
57	Panel red 1	000-255	0~100%
58	Panel green 1	000-255	0~100%
59	Panel blue 1	000-255	0~100%
60	Panel white 1	000-255	0~100%
61	Panel red 2	000-255	0~100%
62	Panel green 2	000-255	0~100%
63	Panel blue 2	000-255	0~100%
64	Panel white 2	000-255	0~100%
	...	000-255	0~100%
	...	000-255	0~100%
	...	000-255	0~100%
81	Panel red7	000-255	0~100%
82	Panel green 7	000-255	0~100%
83	Panel blue 7	000-255	0~100%
84	Panel white 7	000-255	0~100%

5.4 Channel（98CH）

98Ch Mode				
DMX/ NET	DMX+NET	Function	Value	Percent/Setting
1	1	Pan Rotation	000-003	Indexing
2	2	Pan	004-129	Fast to Slow(Forward Spin)
3	3	Pan Fine	130-255	Slow to Fast(Revers Spin)
4	4	Tilt Rotation	000-255	Positioning from 0-540 degrees(Indexing)
		Tilt	000-255	
5	5	Tilt Fine	000-003	Indexing
		Zoom	004-129	Fast to Slow(Forward Spin)
		Pan Rotation	130-255	Slow to Fast(Revers Spin)
6	6	Pan	000-255	Positioning from 0-540 degrees(Indexing)
		Pan Fine	000-255	
7	7	Tilt Rotation	000-255	From narrow to wide beam
8	8	Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
9	9	Dimmer	000-255	0~ 100%
10	10	White Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe

			239-251	Random Fast Strobe
			252-255	Light ON
11	11	White Dimmer	000-255	0~ 100%
12	12	Panel Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
13	13	Panel Dimmer	000-255	0~ 100%
14	14	Device Setting	000-005	No Function
			026-076	Head Reset (Hold 5S)
			077-127	Pan/Tilt Reset (Hold 5S)
			128-178	Complete Reset(Hold 5S)
			179-192	No Function
			193-200	Dimmer Mode 1
			201-208	Dimmer Mode 2
			209-216	Dimmer Mode 3
			217-224	Dimmer Mode 4
			225-255	No Function
15	1	Red1	000-255	0~ 100%
16	2	Green1	000-255	0~ 100%
17	3	Blue1	000-255	0~ 100%
18	4	White1	000-255	0~ 100%
19	5	Red2	000-255	0~ 100%
20	6	Green2	000-255	0~ 100%
21	7	Blue2	000-255	0~ 100%
22	8	White2	000-255	0~ 100%
		...	000-255	0~ 100%
		...	000-255	0~ 100%
		...	000-255	0~ 100%
		...	000-255	0~ 100%
39	25	Red7	000-255	0~ 100%
40	26	Green7	000-255	0~ 100%
41	27	Blue7	000-255	0~ 100%
42	28	White7	000-255	0~ 100%
43	29	Cool White1	000-255	0~ 100%
44	30	Warm White1	000-255	0~ 100%
45	31	Cool White2	000-255	0~ 100%
46	32	Warm White2	000-255	0~ 100%
		...	000-255	0~ 100%
		...	000-255	0~ 100%
		...	000-255	0~ 100%
67	53	Cool White13	000-255	0~ 100%
68	54	Warm White13	000-255	0~ 100%
69	55	Cool White14	000-255	0~ 100%
70	56	Warm White14	000-255	0~ 100%
71	57	Panel Red1	000-255	0~ 100%
72	58	Panel Green1	000-255	0~ 100%

73	59	Panel Blue1	000-255	0~ 100%
74	60	Panel White1	000-255	0~ 100%
75	61	Panel Red2	000-255	0~ 100%
76	62	Panel Green2	000-255	0~ 100%
77	63	Panel Blue2	000-255	0~ 100%
78	64	Panel White2	000-255	0~ 100%
		...	000-255	0~ 100%
		...	000-255	0~ 100%
		...	000-255	0~ 100%
		...	000-255	0~ 100%
95	81	Panel Red7	000-255	0~ 100%
96	82	Panel Green7	000-255	0~ 100%
97	83	Panel Blue7	000-255	0~ 100%
98	84	Panel White7	000-255	0~ 100%

6.Error message

	error message	describe	Including
1.	Net error	Communication error between motherboard and PIC	√
2.	CTR1-XY error	XY motor drive board communication error	√
3.	CTR2-MOTOR error	LED driver board communication error	√
4.	temperature error	temperature error	√

7. Fault handling

Fault phenomenon	Reason for malfunction	processing method
No menu display	1. No AC input 2. The switch power supply is damaged 3. Display board malfunction	1. Check the power supply line 2. Check if the switch power supply has voltage output 3. Replace the display board
Unable to receive DMX signal	1. DMX signal line fault 2. Incorrect wiring sequence of signal lines 3. The signal input terminal receives a damaged signal IC. 4. The DMX address code setting does not match the control corresponding to the console 5. Other parameter settings are incorrect 6. After entering the menu, if you do not press the confirm button or MENU button to exit to the main menu	1. Check or replace the signal line 2. Check the wiring sequence of the signal lines 3. Check if the display board signal receiving IC and the two resistors connected in series on the signal line are open circuits 4. Check or reset the address code or restore the factory settings and try testing again 5. Press MENU to exit to the main menu

If the surface temperature of the lamp body exceeds 75 ° C, temperature control protection cannot be carried out	1. Thermistor fault on LED bead board 2. Temperature control circuit fault on the display board	1. Replace the thermistor 2. Check the temperature control circuit on the motherboard
Uneven color mixing and uneven color spots in the projection light	1. LED welding is not correct 2. The lens or bracket is not properly installed	1. Check the welding condition of LED beads 2. Check the lens assembly process and adjust the bracket assembly direction
Color cast (reddish, greenish, or bluish)	1. One of the colors of the LED has a higher or lower current 2. Improper setting of RGBW color mixing white balance	1. Check the driving current of the corresponding color group on the driver board 2. Reset or restore factory settings 3. Replace the corresponding IC
The light bulb is not on or flickering slightly	1. LED damage or no current output from the driver board	1. Replace the LED beads 2. Replace the damaged LED or check the driver board circuit 3. Replace the corresponding driver IC
Parameter not saved	1. IC used for storing parameters is damaged	Replace the storage IC
The entire light does not work when powered on	When the temperature is too high, the temperature control protection causes the switch power supply's over temperature protection to malfunction	Wait for the light body to cool down before turning it on

REMARK

The product has perfect performance and intergrity packing.
All users should be strictly comply with the warning and operating instructions as stated.
Or we aren ’t in charge of any result by misusing.
Any damage resulting by misuse is not within the Company ’s warranty.
Any fault or problem caused by neglecting the manual is also not in the charge of dealers.
Errors and omissions for every information given in this manual excepted.
All information is subject to change without prior notice.