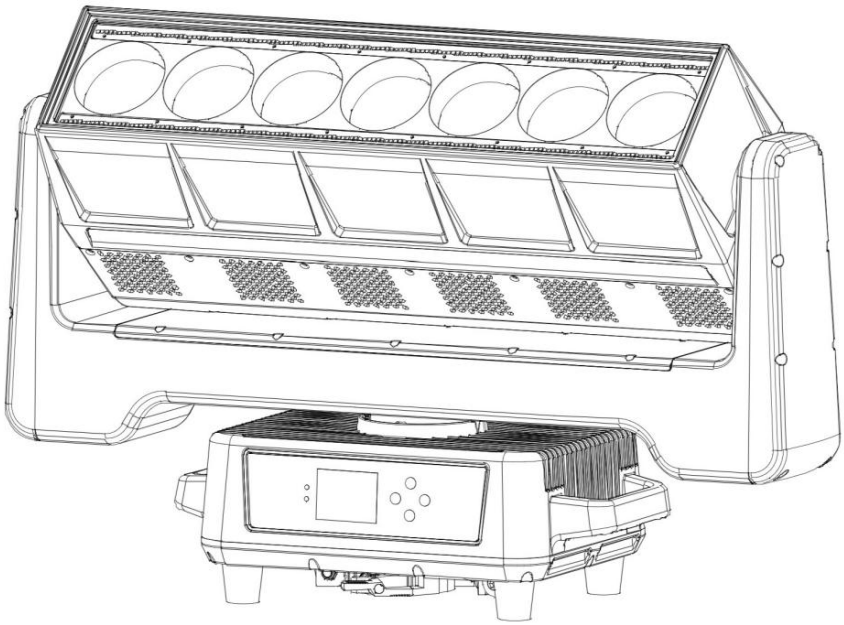
ALLIGATOR IP65



USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS

Thank you for your patronage!
We are confident that our excellent products and service can satisfy you.
For your own safety, please read this user manual carefully before installing the device.
In order to install, operate, and maintain the lighting safety correctly.
We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



CAUTION!
Keep this device away from rain and moisture!



CAUTION!
Unplug mains lead before device's installation, cleaning and maintenance!

Every person involved with the installation, operation and maintenance of device has to:
-be qualified
-follow carefully the instructions of this manual

INTRODUCTION

Thank you for having chosen this professional moving head.
You will see you have acquired a powerful and versatile device.
Unpack the device. Inside the carton box you should find:
1. One power in cable
2. One 3 Pin DMX cable(5 Pin optional)
3. Folding Clamps
4. One safety rope
5. One English user manual

（Flight case is optional, please contact your dealer）
Please check carefully that there is no damage caused by transportation. Should there be any questions, please consult your dealer and don't install this device.

GENERAL GUIDELINES

This device is a lighting effect for a professional use on stages, TV, in discotheques, theaters, etc., The device was designed for indoor use only.
This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in 6th page of this manual.
Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.
Do not shake the device. Avoid brute force when installing or operating the device.
While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output from the projector and the illuminated surface must be more than 0,5 meter.
If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.
Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.
Please use the original packaging if the device is to be transported.
For safety reasons, please be aware that all modifications on the device are forbidden. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, crash, etc.

SAFETY INSTRUCTIONS

CAUTION!



Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

1. In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degress.
2. Always mount this unit in safe and stable matter.

The qualified professionals are allowed to carry out the lamp installation, operation and maintenance, but they must guarantee to operate in strict accordance with the instructions referred to.

▲ **Important:**
Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperatures.

This device falls under protection-class Ⅰ. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

CAUTION!



Never touch the device during operation!
The housing may heat up!

CAUTION!



Never look directly into the light source,
As sensitive persons may suffer an epileptic shock.

Please be aware that damages caused by manual modifications to be the device are not subject to warranty.
Keep away from children and non-professionals.

CLEANING AND MAINTENANCE

1. To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
2. Do not spill water or other liquids into or on to your unit.
3. During long periods of non-use, disconnect the unit's main power.
4. It should be installed in a well-ventilated place, at a distance of 50 centimeters or more with the walls. At the same time, please check if the fan and ventilation holes are unobstructed.

The following points have to be considered during the inspection

1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2) There must not be any deformations on the housing. Fixations and installations spots(ceiling, suspension, trussing).
3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.

4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

CAUTION!



Disconnect from mains before starting maintenance operation!

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2) Clean the fan each week.
3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device.

Please use a moist, lint-free cloth. Never use alcohol or solvents !

TECHNICAL PARAMETERS

LIGHT SOURCE & OPTIC

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

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:Front： 3° ~ 37° Back： 70°.

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

EFFECTS

Color System: Front: RGBW+WW+CW color mixing; Back: RGBW color mixing

Zoom: Beam Angle 3° – 37°

Strobe: 0～30Hz

Dimming: 4 dimming curves, 0 – 100% variable

CONTROL & PROGRAM

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 Channel: 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

Refresh rate: 600Hz、1200Hz、2000HZ、4000HZ、6000HZ、25KHZ

Pixel matrix: Overall control, point by point control, segment by segment control

POWER SUPPLY

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

Power:

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

Consumption: 0.96@230V

Temperature: 0～45°

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

MOVEMENT

Pan: Infinite rotation

Tilt: Infinite rotation

BODY

Protection grade: IP65

Cooling system: Low noise fan for forced ventilation

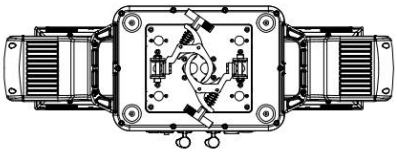
Housing: Black environmentally friendly flame-retardant nylon

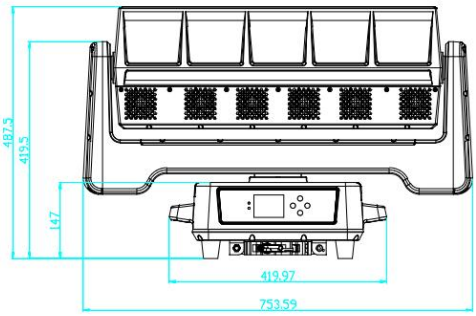
Installation method: Flat ground, side hanging, hanging installation

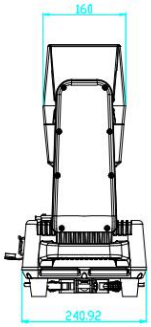
WEIGHT & SIZE

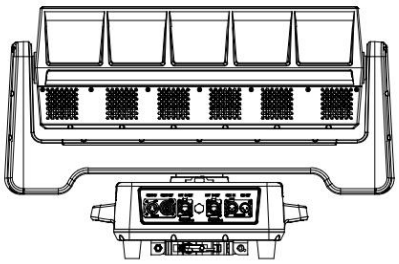
Product size：755*241*490mm

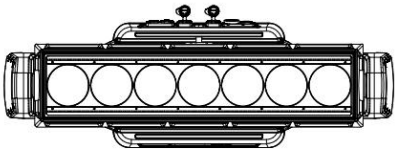
Weight： N.W：28.5 kg





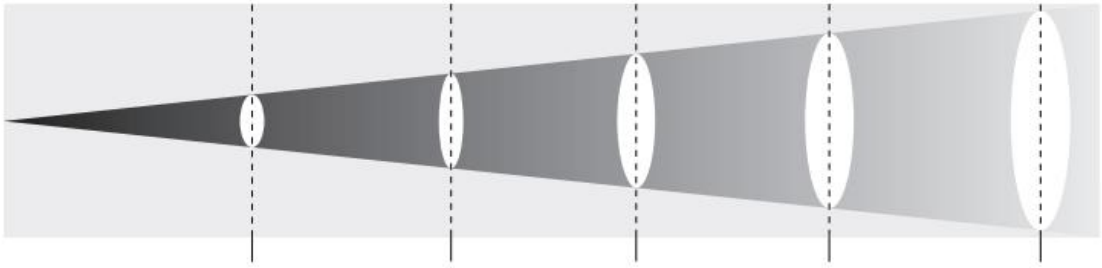






Ilumination map

Front beam angle： 3°/37



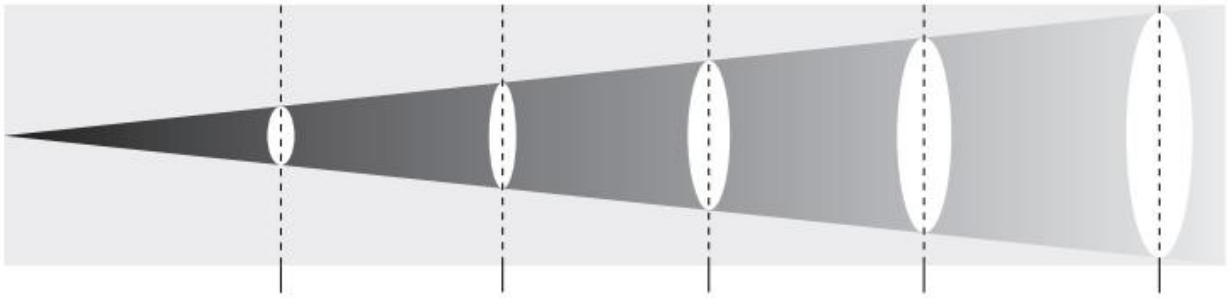
角度：3°

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°

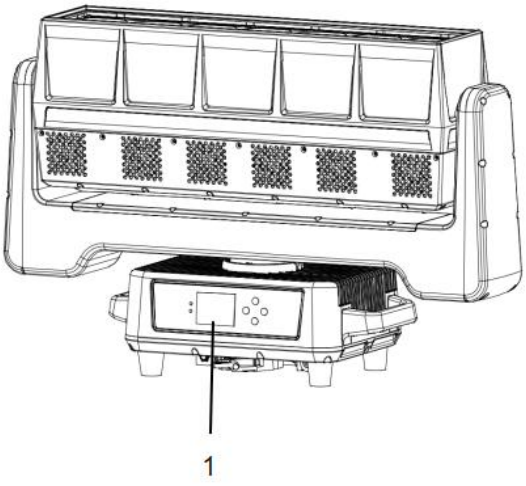
距离(M)	3	5	7	10	20
照度(lux)	2000	720	367	180	45
光斑直径(M)	2.02	3.36	4.71	6.73	13.46

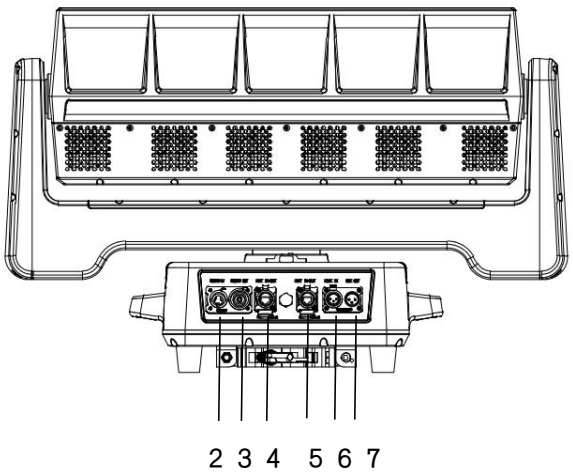
Back beam angle:70



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

Control panel





1.CONTROL PANEL

2.PowerCon in 3.PowerCon out
4.Art-Net 5.Art-Net
6. 3pin (or 5pin)XLR In for DMX
7. 3pin(or 5pin) XLR In for DMX

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

Option

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	

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

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	
	……		

Advanced

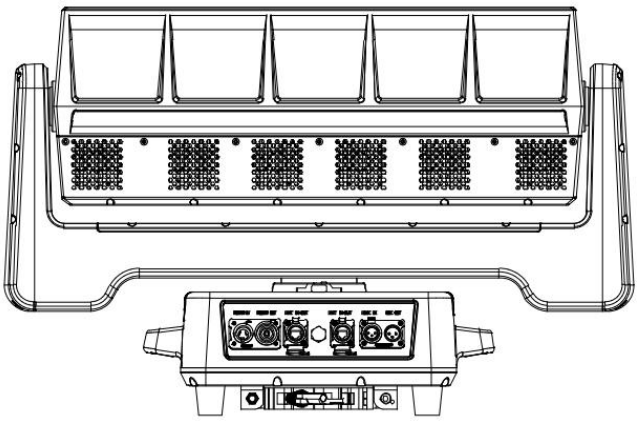
option	describe	
Motor calibration	Pan calibration	After entering the sub interface, the reset positions of motors such as X-axis and Y-axis can be adjusted to compensate for hardware installation errors. The adjustment range is -128~+127, and+0 indicates no adjustment。
	Tilt calibration	
	Magnify calibration	
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	

Installation and Connection

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.

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

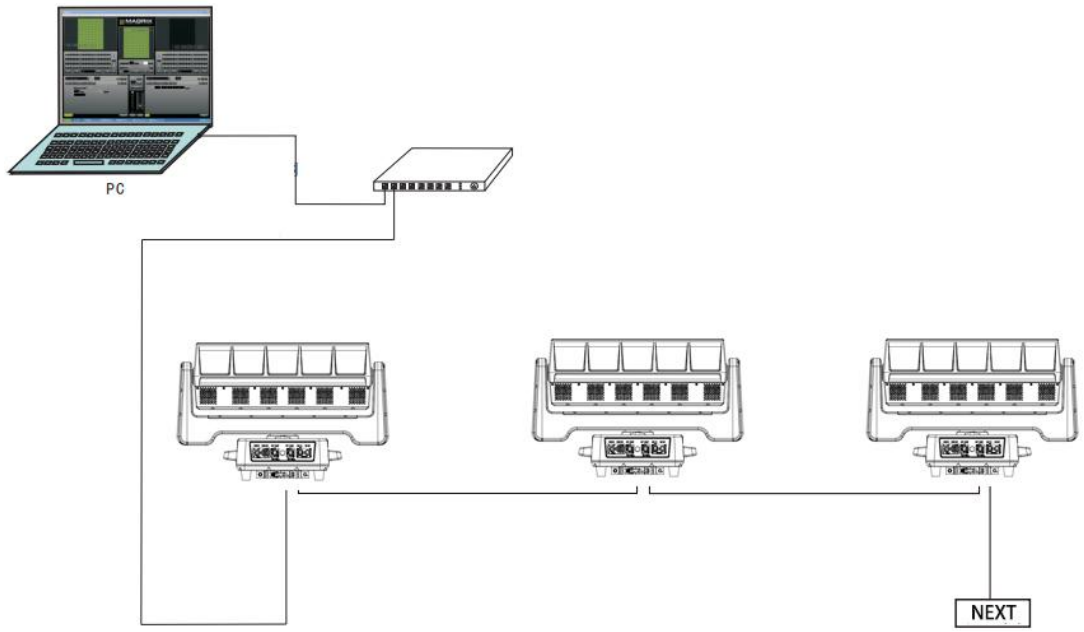


Do not connect more than 1 unit in series with one power cable Do not use damage power cable

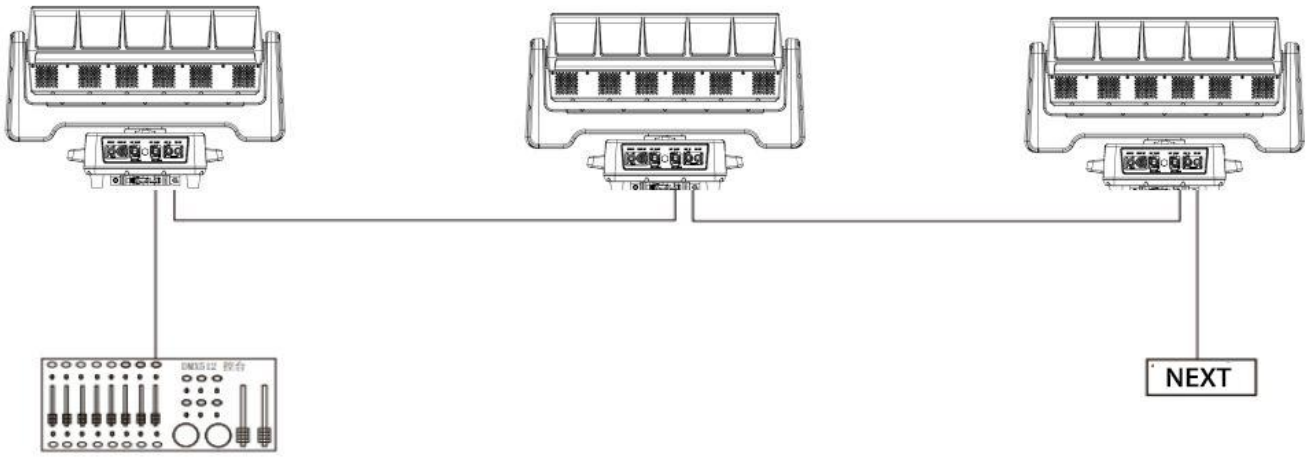
Power off the fixture when not in use

Signal Connection

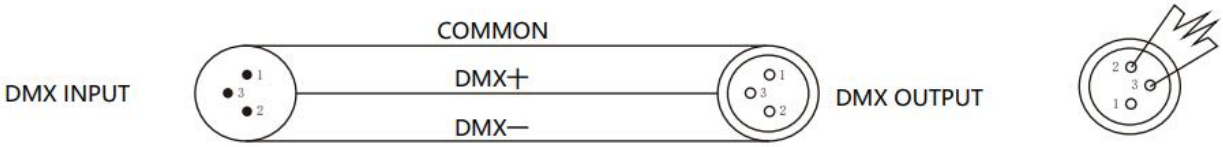
Network connections



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.

CHANNEL LIST

26CH

DMX/ NET	DMX+NET	FUNCTION	VALUE	DESCRIPTION
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%

50CH

DMX/ NET	DMX+NET	FUNCTION	VALUE	DESCRIPTION
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
12	12	Effects	000-005	No Function
			006-015	Effect 1
			016-023	Effect 2
			024-031	Effect 3
			032-038	Effect 4
			039-046	Effect 5
			047-054	Effect 6

			055-062	Effect 7
			063-069	Effect 8
			070-077	Effect 9
			078-085	Effect 10
			086-093	Effect 11
			094-100	Effect 12
			101-108	Effect 13
			109-116	Effect 14
			117-124	Effect 15
			125-131	Effect 16
			132-139	Effect 17
			140-147	Effect 18
			148-155	Effect 19
			156-162	Effect 20
			163-170	Effect 21
			171-178	Effect 22
			179-186	Effect 23
			187-193	Effect 24
			194-201	Effect 25
			202-209	Effect 26
			210-217	Effect 27
			218-224	Effect 28
			225-232	Effect 29
			233-240	Effect 30
			241-248	Effect 31
			249-255	Effect 32
13	13	Effects 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
18	18	White Effects	000-005	No Function
			006-015	Effect 1
			016-023	Effect 2
			024-031	Effect 3
			032-038	Effect 4
			039-046	Effect 5
			047-054	Effect 6
			055-062	Effect 7
			063-069	Effect 8
			070-077	Effect 9
			078-085	Effect 10
			086-093	Effect 11
			094-100	Effect 12
			101-108	Effect 13
			109-116	Effect 14
			117-124	Effect 15

			125-131	Effect 16
			132-139	Effect 17
			140-147	Effect 18
			148-155	Effect 19
			156-162	Effect 20
			163-170	Effect 21
			171-178	Effect 22
			179-186	Effect 23
			187-193	Effect 24
			194-201	Effect 25
			202-209	Effect 26
			210-217	Effect 27
			218-224	Effect 28
			225-232	Effect 29
			233-240	Effect 30
			241-248	Effect 31
			249-255	Effect 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 temperature	000-009	off
23	23	Back end background color temperature	010-255	CTO 8000K~270k
			000-009	off

24	24	Panel Effects	000-005	No function
			006-015	Effect 1
			016-023	Effect 2
			024-031	Effect 3
			032-038	Effect 4
			039-046	Effect 5
			047-054	Effect 6
			055-062	Effect 7
			063-069	Effect 8
			070-077	Effect 9
			078-085	Effect 10
			086-093	Effect 11
			094-100	Effect 12
			101-108	Effect 13
			109-116	Effect 14
			117-124	Effect 15
			125-131	Effect 16
			132-139	Effect 17
			140-147	Effect 18
			148-155	Effect 19
			156-162	Effect 20
			163-170	Effect 21

			171-178	Effect 22
			179-186	Effect 23
			187-193	Effect 24
			194-201	Effect 25
			202-209	Effect 26
			210-217	Effect 27
			218-224	Effect 28
			225-232	Effect 29
			233-240	Effect 30
			241-248	Effect 31
			249-255	Effect 32
25	25	Panel Effects 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	Background Top Cool White	000-255	0~100%
40	14	Background Top Warm White	000-255	0~100%
41	15	Background Bottom Cool White	000-255	0~100%
42	16	Background Bottom Warm White	000-255	0~100%
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%

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DMX/NET	FUNCTION	VALUE	DESCRIPTION
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%

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DMX/ NET	DMX+NET	FUNCTION	VALUE	DESRIPTION
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%
			000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON

10	10	White Strobe	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%

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	√

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.

Thank you again for your patronage!
We will be offering sincere service as always,
Wish you have a good lighting journey!