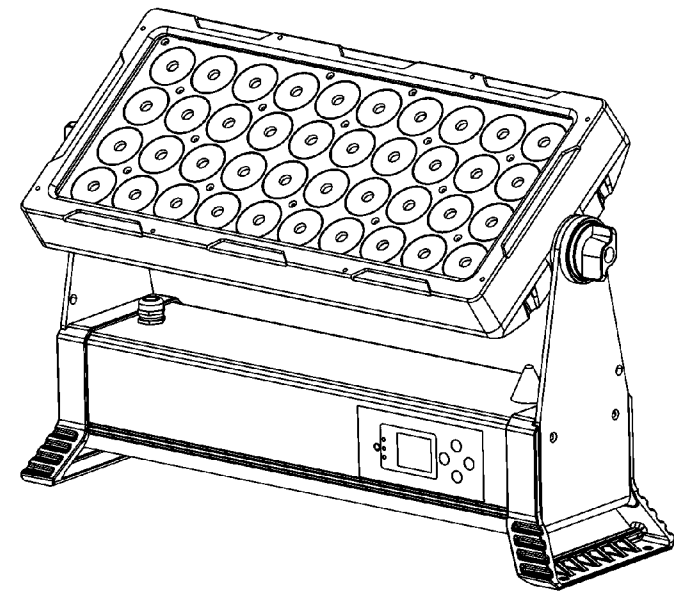


ARCLIGHT 4015RGBW



CE   IP20 LED  0.2m  t_a 40°C t_c 150°C

User Manual

KEEP THIS MANUAL FOR FUTURE NEEDS

1 SAFETY INSTRUCTIONS



CAUTION

Becareful 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.



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 temperature.

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.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

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.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

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.

10 MAINTENANCE AND CLEANING

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, color lenses, fixations and installation 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.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.

44 Channel Mode

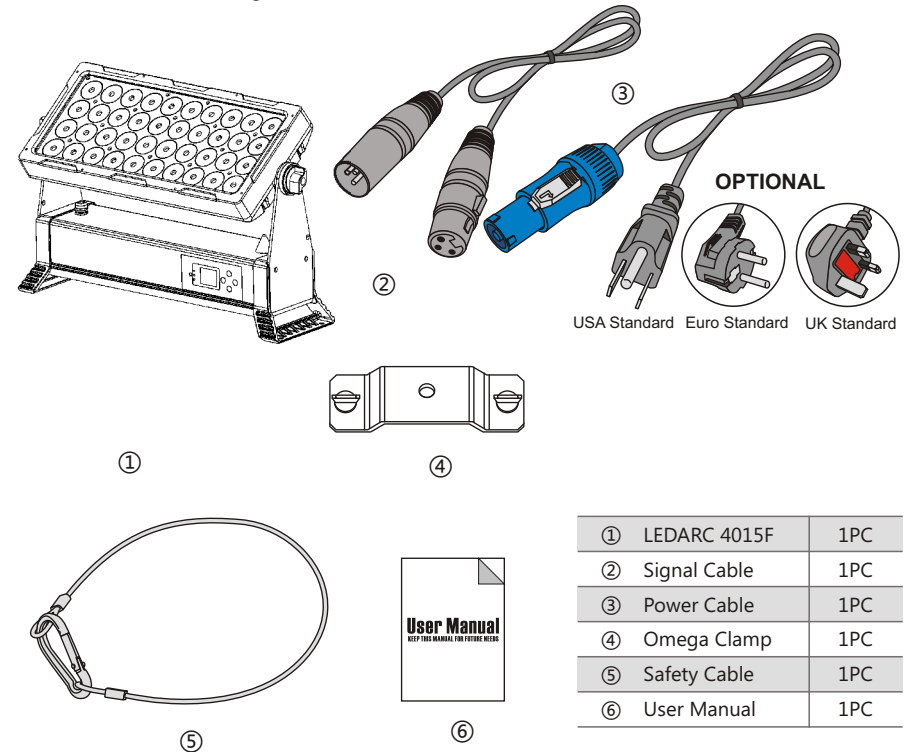
No	Function	Descriptions
1Chs	Master Dimming	Master Dimming (0-255) linearly dimming, from dark to bright
2Chs	Strobe	(0-255) Red, Green, Blue, White Strobe from slow to fast
3Chs	The first paragraph light Dimming	Red, (0-255) linearly dimming, from dark to bright
4Chs	The first paragraph light Dimming	Green, (0-255) linearly dimming, from dark to bright
5Chs	The first paragraph light Dimming	Blue, (0-255) linearly dimming, from dark to bright
6Chs	The first paragraph light Dimming	White, (0-255) linearly dimming, from dark to bright
7Chs	The second paragraph light	Red, (0-255) linearly dimming, from dark to bright
8Chs	The second paragraph light	Green, (0-255) linearly dimming, from dark to bright
9Chs	The second paragraph light	Blue, (0-255) linearly dimming, from dark to bright
10Chs	The second paragraph light	White, (0-255) linearly dimming, from dark to bright
11Chs	The third paragraph light	Red, (0-255) linearly dimming, from dark to bright
12Chs	The third paragraph light	Green, (0-255) linearly dimming, from dark to bright
13Chs	The third paragraph light	Blue, (0-255) linearly dimming, from dark to bright
14Chs	The third paragraph light	White, (0-255) linearly dimming, from dark to bright
15Chs	The fourth paragraph light	Red, (0-255) linearly dimming, from dark to bright
16Chs	The fourth paragraph light	Green, (0-255) linearly dimming, from dark to bright
17Chs	The fourth paragraph light	Blue, (0-255) linearly dimming, from dark to bright
18Chs	The fourth paragraph light	White, (0-255) linearly dimming, from dark to bright
19Chs	The fifth paragraph light	Red, (0-255) linearly dimming, from dark to bright
20Chs	The fifth paragraph light	Green, (0-255) linearly dimming, from dark to bright
21Chs	The fifth paragraph light	Blue, (0-255) linearly dimming, from dark to bright
22Chs	The fifth paragraph light	White, (0-255) linearly dimming, from dark to bright
23Chs	The sixth paragraph light	Red, (0-255) linearly dimming, from dark to bright
24Chs	The sixth paragraph light	Green, (0-255) linearly dimming, from dark to bright
25Chs	The sixth paragraph light	Blue, (0-255) linearly dimming, from dark to bright
26Chs	The sixth paragraph light	White, (0-255) linearly dimming, from dark to bright
27Chs	The seventh paragraph light	Red, (0-255) linearly dimming, from dark to bright
28Chs	The seventh paragraph light	Green, (0-255) linearly dimming, from dark to bright
29Chs	The seventh paragraph light	Blue, (0-255) linearly dimming, from dark to bright
30Chs	The seventh paragraph light	White, (0-255) linearly dimming, from dark to bright
31Chs	The eighth paragraph light	Red, (0-255) linearly dimming, from dark to bright
32Chs	The eighth paragraph light	Green, (0-255) linearly dimming, from dark to bright
33Chs	The eighth paragraph light	Blue, (0-255) linearly dimming, from dark to bright
34Chs	The eighth paragraph light	White, (0-255) linearly dimming, from dark to bright
35Chs	The ninth paragraph light	Red, (0-255) linearly dimming, from dark to bright
36Chs	The ninth paragraph light	Green, (0-255) linearly dimming, from dark to bright
37Chs	The ninth paragraph light	Blue, (0-255) linearly dimming, from dark to bright
38Chs	The ninth paragraph light	White, (0-255) linearly dimming, from dark to bright
39Chs	The tenth paragraph light	Red, (0-255) linearly dimming, from dark to bright
40Chs	The tenth paragraph light	Green, (0-255) linearly dimming, from dark to bright
41Chs	The tenth paragraph light	Blue, (0-255) linearly dimming, from dark to bright
42Chs	The tenth paragraph light	White, (0-255) linearly dimming, from dark to bright
43Chs	Built-in Program	Previous 42channels can be used (0-15) ; (16-255) Built-in Program
44Chs	Built-in Program Speed	(0-255) up, speed will turn slow, (0), the fastest speed.

2 UNPACKING

Thank you for choosing our ARCLIGHT 4015RGBW . For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

The ARCLIGHT 4015RGBW is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

The ARCLIGHT 4015RGBW adopts 40*15W 4-IN-1 RGBW LEDs which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:



①	LEDARC 4015F	1PC
②	Signal Cable	1PC
③	Power Cable	1PC
④	Omega Clamp	1PC
⑤	Safety Cable	1PC
⑥	User Manual	1PC

3 FEATURES & SPECIFICATIONS

Features

- 15W 4-IN-1 RGBW LED
- 50000 hours life span and low power consumption
- Each color and each LED controllable individually
- 8/16 bit smooth and precise resolution for PAN/TILT movement
- Scan position memory, auto reposition after unexpected movement
- Specific high precision optic lens
- Variable direction rotating front lens
- 8°/25°/45°Lens optional 10°/30°/45°Field angles
- Brilliant hard beam effects at 4°
- Pure and even wash coverage effects at 60°
- Pixel patterning macro effects
- Built-in running programs
- Built-in color effect macros
- 0-100% linear LED dimmer
- 1-25T/sec high speed LED shutter/strobe effect with variable speed
- Preset variable/random strobe and dimming pulse effect
- Art-Net,King-Net,DMX
- 6/8/40/44 DMX channels USITT DMX-512
- DMX512, master-slave, and sound activated controllable or auto operation
- DMX recorder and edit function integrated
- High resolution graphic LCD display
- POWERCON connector IN/OUT
- 3-pin XLR connectors IN/OUT
- Aluminium structure with die-cast plastic cover
- Two side handles for transportation
- PAN lock for transport and maintenance
- High efficiency low noise cooling system
- Constant temperature readout and management function
- 2-45°C max ambient temperature
- IP65 protection rating
- 55dB at 3'dB rating
- 2*1/4 turn fastening Omega clamp
- 1*Safety attachment point

Specifications

- Input Voltage:** AC90-260V 50/60Hz
LED Quantities: 40* 15W 4-IN-1 RGBW LED
Control Signal: DMX512, master-slave and sound activated or auto operation
Control protocols: Art-Net,King-Net,DMX
Control Channel: 6/8/40/44 DMX channels USITT DMX-512
Power Consumption: 400W
Dimensions: 220(D)*559(W)*323.8(H)mm
Packing Dimensions: 290(D)*590(W)*400(H)mm
Net Weight: 13.5kg
Gross Weight: 15.5kg

40 Channel Mode

No	Function	Descriptions
1Chs	The first paragraph light Dimming	Red, (0—255) linearly dimming, from dark to bright
2Chs	The first paragraph light Dimming	Green, (0—255) linearly dimming, from dark to bright
3Chs	The first paragraph light Dimming	Blue, (0—255) linearly dimming, from dark to bright
4Chs	The first paragraph light Dimming	White, (0—255) linearly dimming, from dark to bright
5Chs	The second paragraph light Dimming	Red, (0—255) linearly dimming, from dark to bright
6Chs	The second paragraph light Dimming	Green, (0—255) linearly dimming, from dark to bright
7Chs	The second paragraph light Dimming	Blue, (0—255) linearly dimming, from dark to bright
8Chs	The second paragraph light Dimming	White, (0—255) linearly dimming, from dark to bright
9Chs	The third paragraph light Dimming	Red, (0—255) linearly dimming, from dark to bright
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38Chs	The tenth paragraph light Dimming	Green, (0—255) linearly dimming, from dark to bright
39Chs	The tenth paragraph light Dimming	Blue, (0—255) linearly dimming, from dark to bright
40Chs	The tenth paragraph light Dimming	White, (0—255) linearly dimming, from dark to bright

9 DMX CHANNELS

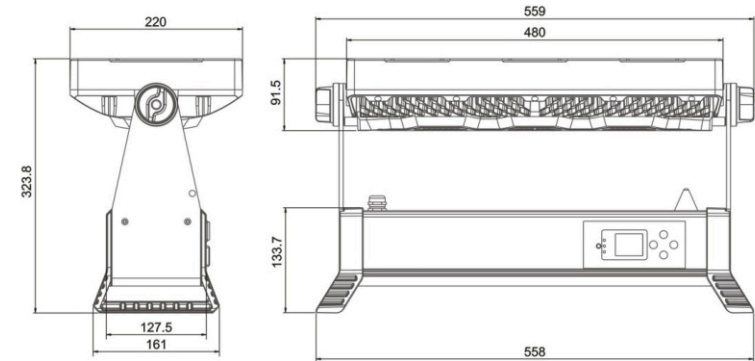
6 CHS Mode:	001、	007、	013、	019
8 CHS Mode:	001、	009、	017、	025
40 CHS Mode:	001、	041、	081、	121
44 CHS Mode:	001、	045、	089、	133

6 Channel Mode

No	Function	Descriptions
1Chs	Master Dimming	Red, Green, Blue, White Master Dimming (0-255) linearly dimming, from dark to bright
2Chs	Strobe	(0-255) Red, Green, Blue, White Strobe from slow to fast
3Chs	Red Dimming	Red Dimming, (0-255) linearly dimming, from dark to bright
4Chs	Green Dimming	Green Dimming, (0-255) linearly dimming, from dark to bright
5Chs	Blue Dimming	Blue Dimming, (0-255) linearly dimming, from dark to bright
6Chs	White Dimming	White Dimming, (0-255) linearly dimming, from dark to bright

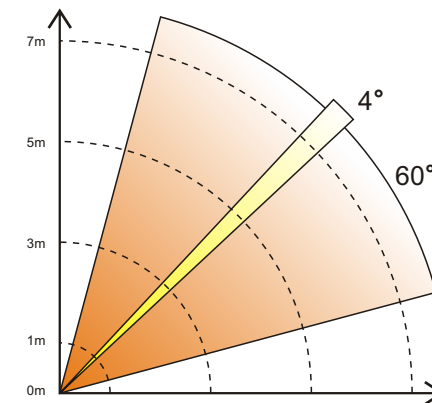
8 Channel Mode

No	Function	Descriptions
1Chs	Master Dimming	Red, Green, Blue, White Master Dimming (0-255) linearly dimming, from dark to bright
2Chs	Strobe	(0-255) Red, Green, Blue, White Strobe from slow to fast
3Chs	Red Dimming	Red Dimming, (0-255) linearly dimming, from dark to bright
4Chs	Green Dimming	Green Dimming, (0-255) linearly dimming, from dark to bright
5Chs	Blue Dimming	Blue Dimming, (0-255) linearly dimming, from dark to bright
6Chs	White Dimming	White Dimming, (0-255) linearly dimming, from dark to bright
7Chs	Built-in Program	Previous 6channels can be used (0-15) ; (16-255) Built-in Program
8Chs	Built-in Program Speed	(0-255) up, speed will turn slow, (0), the fastest speed.



4 PHOTOMETRIC DATA

PHOTOMETRIC BEAM ANGLE DATA (FC=LUX × 0.0929)



< 4°>	R	G	B	W	RGBW
	9850	13200	23740	19230	53210
	3390	4110	6860	5370	18970
	1710	1870	2860	2640	7890
	870	1040	1450	1520	4370

< 60°>	R	G	B	W	RGBW
	2610	3040	4800	4520	13950
	280	320	590	410	1550
	110	120	180	165	520
	50	60	100	90	280

5 OPERATION INSTRUCTIONS

- The ARCLIGHT 4015RGBW is for beam effect for on-site decoration purpose.
- Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be keep away from strong shaking during any transportation or movement.
- Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
- Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make sure the installation place is in good safety condition before installing the fixture.
- Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
- Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
- Make sure the fixture is operated by qualified personnel who knows the fixture before using.
- Keep the original packages if any second shipment is needed.
- Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
- It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

6 INSTALLATIONS

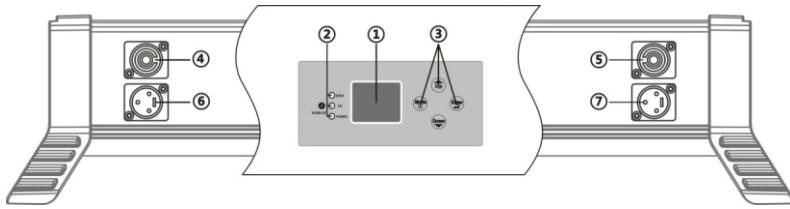
Cautions: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

No	English Display		Chinese Display	Descriptions
1	Address	Address	Address Setting 001	Press Confirm to Enter; Press Up and Down to adjust the address code; Press the Menu button to Return.
2	CHS Testing	CHS Testing	CHS Testing Channel function for 7CHS	Press Confirm to Enter; Press Up and Down to Add or subtract channel parameter values. Press the Menu button to Return.
3	Testing Mode	DMX-channel	DMX CHS Select 6/8/40/44CH	Press Confirm to Enter; Press Up and Down to select channel mode; Press the Menu button to Return.
		PROG	Built-in program 01	Press Confirm to Enter; Press Up and Down to select built-in program; Press the Menu button to Return.
		PROG-SPEED	Program Speed 16	Press Confirm to Enter; Press Up and Down to select built-in program speed; Press the Menu button to Return.
		Auto test	Auto Testing	Press the Menu button to Return Main Menu
		Sound1	Sound 1	Press the Menu button to Return Main Menu
		Sound2	Sound 2	Press the Menu button to Return Main Menu
		Sound3	Sound 3	Press the Menu button to Return Main Menu
4	Setting	Back-Light	Back-Light	Press Confirm to Enter; To set off Back-Light or not.
		Display mirror	Display mirror	Press Confirm to Enter; Press Up and Down to set Display Mirror or no.
		Smooth ON/OFF	Smooth Dimming ON	Press Confirm to Enter; Press Up and Down to select dimming mode Smooth Dimming/Quickly Dimming
		DMX Keep	DMX Keep ON	Press Confirm to Enter; Press Up and Down to set DMX keep; Press Confirm button to confirm.
5	LANGUAGE		Chinese	Press Up and Down to select Chinese or English, to press confirm button to confirm
6	Sysinfo		Press Confirm to Enter System information	Press the confirm button on the submenu to Return.

8 MENU OPERATIONS



① **LCD:** Displays menu options and selected features;

② **LED indicator light:**

DMX	On	When has DMX Signal input
YK	Cool white; Green; Cool blue	Wireless Mode
POWER	On	Power Light

③ **Button:**

MENU	Select Function
DOWN	Select the next menu option
UP	Select the previous menu option
ENTER	Confirm the selected function

④ **POWERCON Input:** connect lamp to supply power;

⑤ **POWERCON Output:** connect the next lamp and provide power;

⑥ **DMX Input:** input **DMX** signal using **3-core XLR** signal line;

⑦ **DMX Output:** connect the next lamp with the **3-core XLR** signal line and output the **DMX** signal;

Never stand directly below the device when mounting, removing, or servicing the fixture.

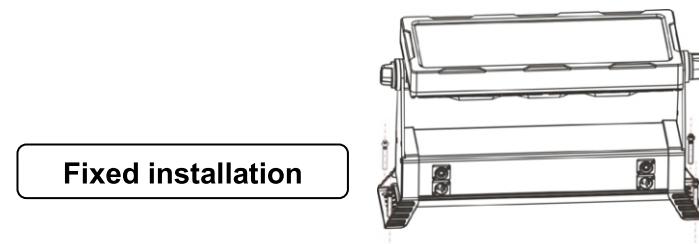
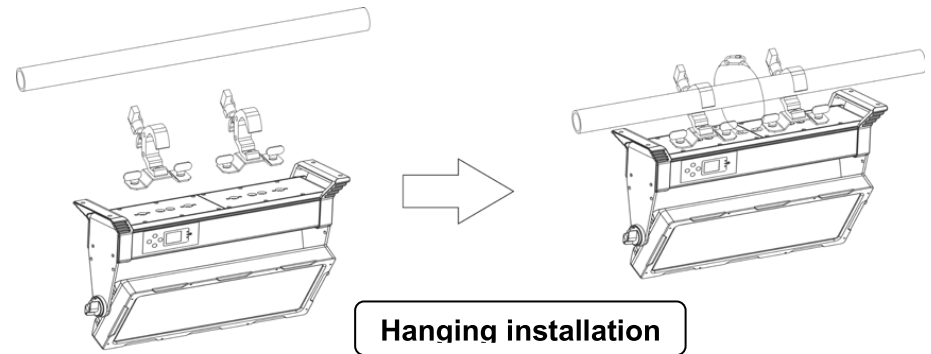
from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.).

Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting points: Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Clamp Mounting: ARCLIGHT 4015RGBW provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the “omega bracket”. As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly.



Regardless of the rigging option you choose for your ARCLIGHT 4015RGBW , always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for

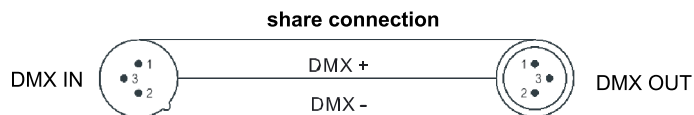
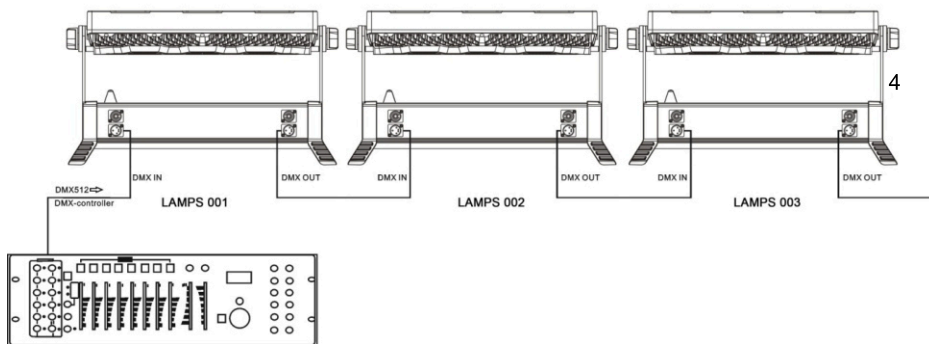
a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

7 DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple

Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

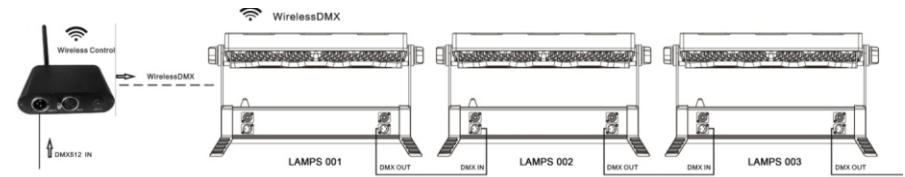
DMX-512 connection with DMX terminator



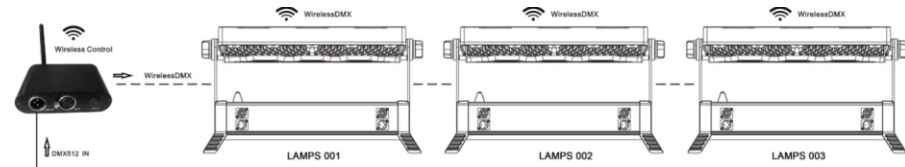
In order to reduce the signal error and avoid signal transmission problems or signal interference, a 120ohm 1/4W resistor can be added between the pin2 and pin3 of DMX connection of the last lighting.



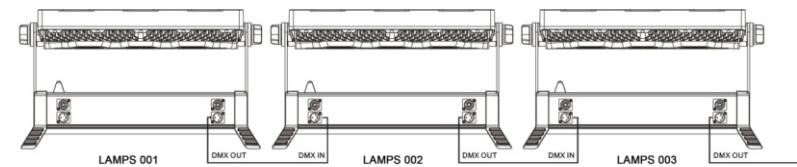
6.2 Wireless Signal connect DMX512



6.3 Wireless Signal connect Wireless Signal



6.4 Master/Slave Signal Connection



1. Connect the lighting with the XLR signal line, one end receives the outlet of the light, and the other end receives the input port of the next light. XLR signal lines can only be used in series, not in parallel. DMX512 signal transmission is very fast. The signal line is damaged, the welding place is not secure, the contact is not good, it will affect the signal transmission, causing the system to close.

2. When a unit of power supply circuit, DMX output and input is by-pass connection, so that can continue to maintain the DMX line connected.

3. On the last light, the DMX wire needs an amplifier. Welding a 120 - ohm quarter w resistor between pin 2 and pin 3, and responsible, within XLR plugs into 3 - pin and insert it in the end of a light DMX.

4. Each light, want to have an address to receive information from the console, range between 0-512 (usually 0 and 1 and 1 equal).

5. The 3-core XLR connector is more common than the 5-core XLR.

3 core XLR: PIN 1: GND, PIN 2: negative signal, PIN 3: positive signal.

5 core XLR: PIN 1: GND, PIN 2: negative signal, PIN 3: positive signal ,

Pin 4/5: unused.

