

10. Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture's light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER !
Disconnect from the mains before starting any maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet. Remove dust and dirt from the fans and cooling vents using a soft brush and vacuum-cleaner.

Important! Check the air filters periodically and clean before they become clogged!

Clean two air filters placed in the fixture's covers and two in the fixture base. Use a vacuum cleaner, compressed air or you can wash them and put back dry.

After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters--->Elapsed Time).

Replacing the fuse. Before replacing the fuse, unplug mains lead.

- 1) Remove the fuse holder on the rear panel of the base with a fitting screwdriver from the housing (anti-clockwise).
- 2) Remove the old fuse from the fuse holder.
- 3) Install the new fuse in the fuse holder (only the same type and rating).
- 4) Replace the fuseholder in the housing and fix it.

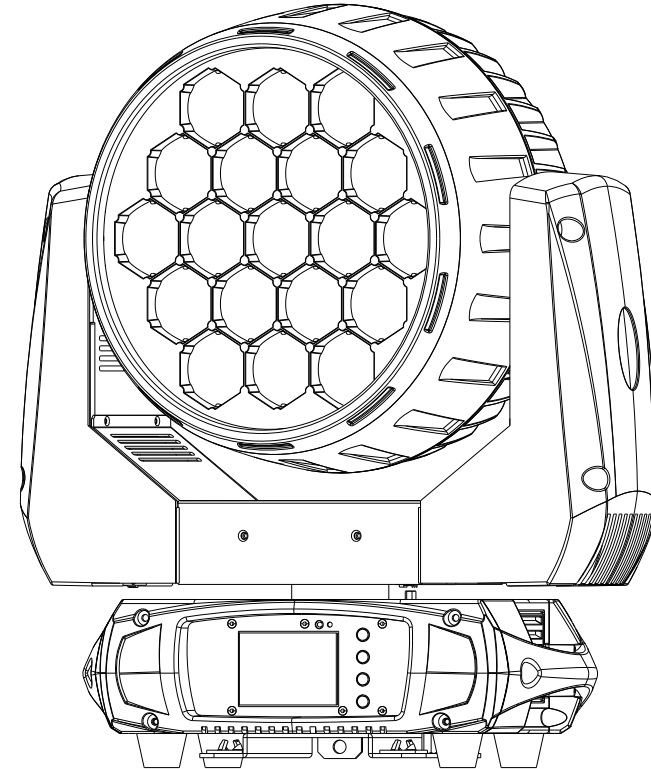


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BR-1915P WASH ZOOM



Version 1.0

USER MANUAL

- Be sure to read the USER MANUAL carefully before using this product.
- Be sure to keep the USER MANUAL properly for future needs.
- Use this product correctly when you can fully understand the User Manual

1. Safety instructions

Thank you for choosing our BR-1915P WASH ZOOM. for your own safety, please read this user manual carefully

BEFORE YOU INITIAL START - UP!

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

This device has left our premises in absolutely 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 manual.

CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

Important:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

During the operation the housing becomes hot). Allow the fixture to cool approximately 20 minutes prior to manipulate with it.

Make sure that the available voltage is not higher than stated on the rear panel.

WARNING! This unit does not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the fixture.

Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

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.

This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.

The electric connection, repairs and servicing must be carried out by a qualified employee.

Do not connect this device to a dimmer pack.

Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.

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

Do not touch the device's housing bare hands during its operation (housing becomes hot)!

For replacement use lamps and fuses of same type and rating only.

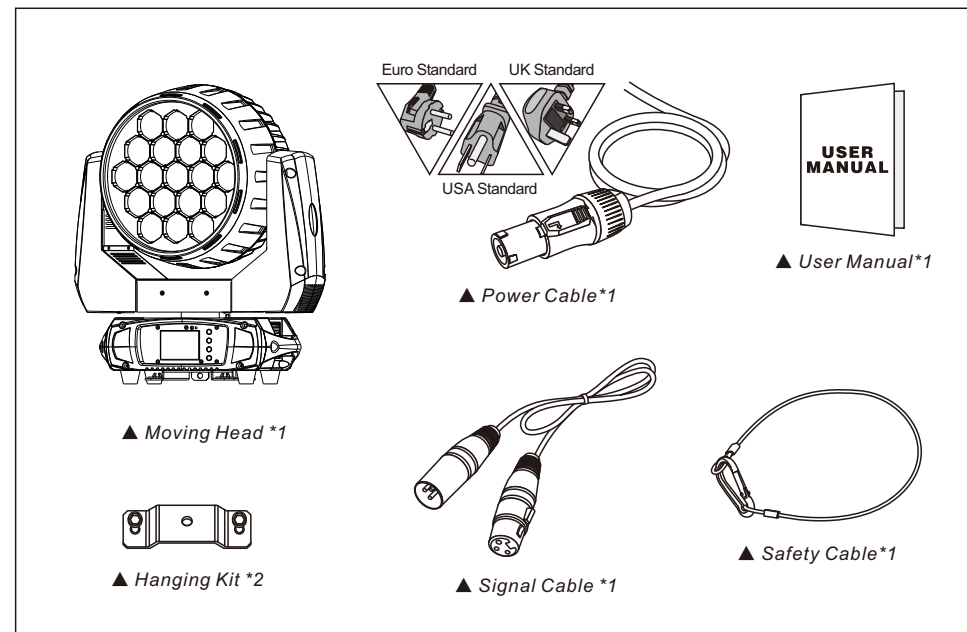
CAUTION ! EYE DAMAGES !
Avoid looking directly into the light source
(meant especially for epileptics) !

86	80				Red in Pixel 17
				0..255	White in pixel 17 saturation control(0-100%)
87	81				Green in pixel 17
				0..255	Green in pixel 17 saturation control(0-100%)
88	82				Blue in pixel 17
				0..255	Blue in pixel 17 saturation control(0-100%)
89	83				White in pixel 17
				0..255	White in pixel 17 saturation control(0-100%)
90	84				Red in Pixel 18
				0..255	Red in pixel 18 saturation control(0-100%)
91	85				Green in Pixel 18
				0..255	Green in pixel 18 saturation control(0-100%)
92	86				Blue in Pixel 18
				0..255	Blue in pixel 18 saturation control(0-100%)
93	87				White in pixel 18
				0..255	White in pixel 18 saturation control(0-100%)
94	88				Red in pixel 19
				0..255	Red in pixel 19 saturation control(0-100%)
95	89				Green in pixel 19
				0..255	Green in pixel 19 saturation control(0-100%)
96	90				Blue in pixel 19
				0..255	Blue in pixel 19 saturation control(0-100%)
97	91				White in pixel 19
				0..255	White in pixel 19 saturation control(0-100%)
98	92	20	14		Special function
				0..19	No function
				20..29	No function
				30..39	No function
				40..79	No function
				80..89	All Motor reset
				90..94	SCAN Motor Reset
				95..99	Focus Motor Reset
				100..119	Internal program 1
				120..139	Internal program 2
				140..159	Internal program 3
				160..179	Internal program 4
				180..199	Internal program 5
				200..219	Internal program 6
220..239	Internal program 7				
240..255	Internal Sound program 1				

61	55			White in pixel 10
		0..255		White in pixel 10 saturation control(0-100%)
62	56			Red in Pixel 11
		0..255		Red in pixel 11 saturation control(0-100%)
63	57			Green in Pixel 11
		0..255		Green in pixel 11 saturation control(0-100%)
64	58			Blue in Pixel 11
		0..255		Blue in pixel 11 saturation control(0-100%)
65	59			White in pixel 11
		0..255		White in pixel 11 saturation control(0-100%)
66	60			Red in pixel 12
		0..255		Red in pixel 12 saturation control(0-100%)
67	61			Green in pixel 12
		0..255		Green in pixel 12 saturation control(0-100%)
68	62			Blue in pixel 12
		0..255		Blue in pixel 12 saturation control(0-100%)
69	63			White in pixel 12
		0..255		White in pixel 12 saturation control(0-100%)
70	64			Red in Pixel 13
		0..255		Red in pixel 13 saturation control(0-100%)
71	65			Green in pixel 13
		0..255		Green in pixel 13 saturation control(0-100%)
72	66			Blue in pixel 13
		0..255		Blue in pixel 13 saturation control(0-100%)
73	67			White in pixel 13
		0..255		White in pixel 13 saturation control(0-100%)
74	68			Red in Pixel 14
		0..255		Red in pixel 14 saturation control(0-100%)
75	69			Green in pixel 14
		0..255		Green in pixel 14 saturation control(0-100%)
76	70			Blue in pixel 14
		0..255		Blue in pixel 14 saturation control(0-100%)
77	71			White in pixel 14
		0..255		White in pixel 14 saturation control(0-100%)
78	72			Red in Pixel 15
		0..255		White in pixel 15 saturation control(0-100%)
79	73			Green in pixel 15
		0..255		Green in pixel 15 saturation control(0-100%)
80	74			Blue in pixel 15
		0..255		Blue in pixel 15 saturation control(0-100%)
81	75			White in pixel 15
		0..255		White in pixel 15 saturation control(0-100%)
82	76			Red in Pixel 16
		0..255		White in pixel 16 saturation control(0-100%)
83	77			Green in pixel 16
		0..255		Green in pixel 16 saturation control(0-100%)
84	78			Blue in pixel 16
		0..255		Blue in pixel 16 saturation control(0-100%)
85	79			White in pixel 16
		0..255		White in pixel 16 saturation control(0-100%)

2.UNPACKING

The BR-1915P WASH ZOOM adopts 19*15W white LED lamp 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:



The BR-1915P WASH ZOOM 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.

This manual covers the important information on installation and applications. Meanwhile, please keep this manual well for future needs.

3. TECHNICAL INFORMATION

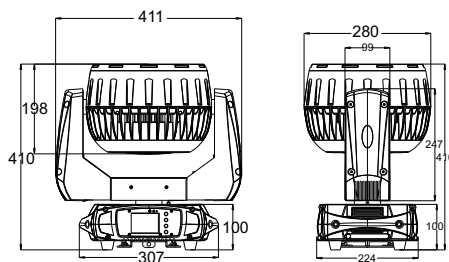
SPECIFICATIONS:

- 19*15W 4-IN-1 RGBW LEDs 50,000 hours life span
- Input Voltage: AC90-260V 50/60Hz
- Control Signal: DMX512, master-slave and sound activated or auto operation
- Control Channel: 20/14/92/98DMX channel modes
- Power Consumption: 350W
- Dimensions: 409(D)*280(W)*410(H)mm
- Packing Dimensions:490(D)*280(W)*560(H)mm
- Net Weight: 11.2kg
- Gross Weight: 13.9kg

FEATURES:

- Specific optic lens of highly efficient elements integrated with glass tube
- CTB and CTO linear colour temperature 2800K-8000K changable
- 19 Pixel each color and each LED controllable individually
- Fast, smooth and quiet motorized zoom with 6° -60° beam angle
- Even, soft edge and pure color mixing coverage
- Flicker free sources management
- 8/16 Bit smooth, fast and precise PAN/TILT movement
- 630°/540°/360°PAN optional and 270°/180°/90°TILT optional
- PAN/TILT reversible advantage
- PAN/TILT calibration available
- Scan position memory, auto reposition after unexpected movement
- 0-100% Smooth linear LED dimmer
- 7 built-in default programs for easy operation
- Different Kinds of pre-programmed macro effects with variable speed
- Variable speed strobe effect with 1-25 flashes per second
- Variable pusle and random effects
- Sound control with sensitivity adjustment

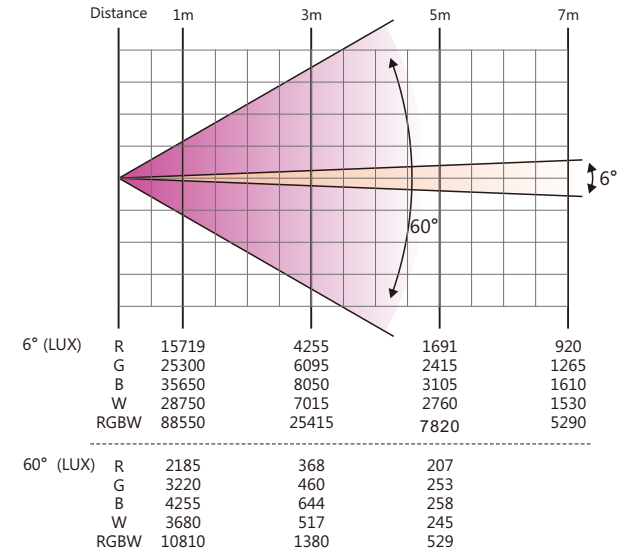
- 2.4" TFT LCD display (320*240pix) with 4 control buttons
- LCD display switch-off automatically after 60 seconds
- DMX signal monitoring indicator available
- Lower noise and efficient FAN cooling system
- Efficient low noise self adjusting fan cooling system
- Constant temperature readout and management function
- Over heat protection management
- Powercon IN/ OUT with power switch and fuse
- 3-Pin DMX connectors IN/OUT
- DB rating@1M=54.18dB
- IP20 protection rating
- -35°C ~ 45°C max ambient temperature
- 2*1/4 turn fastening Omega Clamps (Adaptable vertically and horizontally)
- 1*Safety attachment point
- CE (EMC/LVD) and RoHS certified



39	33				Green in pixel 5
				0..255	Green in pixel 5 saturation control(0-100%)
40	34				Blue in pixel 5
				0..255	Blue in pixel 5 saturation control(0-100%)
41	35				White in pixel 5
				0..255	White in pixel 5 saturation control(0-100%)
42	36				Red in Pixel 6
				0..255	White in pixel 6 saturation control(0-100%)
43	37				Green in pixel 6
				0..255	Green in pixel 6 saturation control(0-100%)
44	38				Blue in pixel 6
				0..255	Blue in pixel 6 saturation control(0-100%)
45	39				White in pixel 6
				0..255	White in pixel 6 saturation control(0-100%)
46	40				Red in Pixel 7
				0..255	White in pixel 7 saturation control(0-100%)
47	41				Green in pixel 7
				0..255	Green in pixel 7 saturation control(0-100%)
48	42				Blue in pixel 7
				0..255	Blue in pixel 7 saturation control(0-100%)
49	43				White in pixel 7
				0..255	White in pixel 7 saturation control(0-100%)
50	44				Red in Pixel 8
				0..255	Red in pixel 8 saturation control(0-100%)
51	45				Green in Pixel 8
				0..255	Green in pixel 8 saturation control(0-100%)
52	46				Blue in Pixel 8
				0..255	Blue in pixel 8 saturation control(0-100%)
53	47				White in pixel 8
				0..255	White in pixel 8 saturation control(0-100%)
54	48				Red in pixel 9
				0..255	Red in pixel 9 saturation control(0-100%)
55	49				Green in pixel 9
				0..255	Green in pixel 9 saturation control(0-100%)
56	50				Blue in pixel 9
				0..255	Blue in pixel 9 saturation control(0-100%)
57	51				White in pixel 9
				0..255	White in pixel 9 saturation control(0-100%)
58	52				Red in Pixel 10
				0..255	Red in pixel 10 saturation control(0-100%)
59	53				Green in pixel 10
				0..255	Green in pixel 10 saturation control(0-100%)
60	54				Blue in pixel 10
				0..255	Blue in pixel 10 saturation control(0-100%)

21	15	19	152..159	staticscene20
			160..167	staticscene21
			168..175	staticscene22
			176..183	staticscene23
			184..191	staticscene24
			192..199	staticscene25
			200..207	staticscene26
			208..215	staticscene27
			216..223	staticscene28
			224..231	staticscene29
			232..239	staticscene30
			240..247	staticscene31
			248..255	staticscene32
			DynamicPatterns (Ifchannel18 is in the interval 032 – 255)	
			000..023	No function
024..137	speed			
138..141	Stop movement			
142..255	speed			
22	16		Red in Pixel 1	
			0..255	Red in pixel1 saturation control(0-100%)
23	17		Green in Pixel 1	
			0..255	Green in pixel1 saturation control(0-100%)
24	18		Blue in Pixel 1	
			0..255	Blue in pixel1 saturation control(0-100%)
25	19		White in pixel 1	
			0..255	White in pixel1 saturation control(0-100%)
26	20		Red in pixel 2	
			0..255	Red in pixel2 saturation control(0-100%)
27	21		Green in pixel 2	
			0..255	Green in pixel2 saturation control(0-100%)
28	22		Blue in pixel 2	
			0..255	Blue in pixel2 saturation control(0-100%)
29	23		White in pixel 2	
			0..255	White in pixel2 saturation control(0-100%)
30	24		Red in Pixel 3	
			0..255	Red in pixel3 saturation control(0-100%)
31	25		Green in pixel 3	
			0..255	Green in pixel3 saturation control(0-100%)
32	26		Blue in pixel 3	
			0..255	Blue in pixel3 saturation control(0-100%)
33	27		White in pixel 3	
			0..255	White in pixel3 saturation control(0-100%)
34	28		Red in Pixel 4	
			0..255	Red in pixel4 saturation control(0-100%)
35	29		Green in pixel 4	
			0..255	Green in pixel4 saturation control(0-100%)
36	30		Blue in pixel 4	
			0..255	Blue in pixel4 saturation control(0-100%)
37	31		White in pixel 4	
			0..255	White in pixel4 saturation control(0-100%)
38	32		Red in Pixel 5	
			0..255	White in pixel5 saturation control(0-100%)

4. PHOTOMETRICS DIAGRAM



5. OPERATION INSTRUCTIONS

- The BR-1915P WASH ZOOM 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 kept 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 where 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.

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 f t) 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.

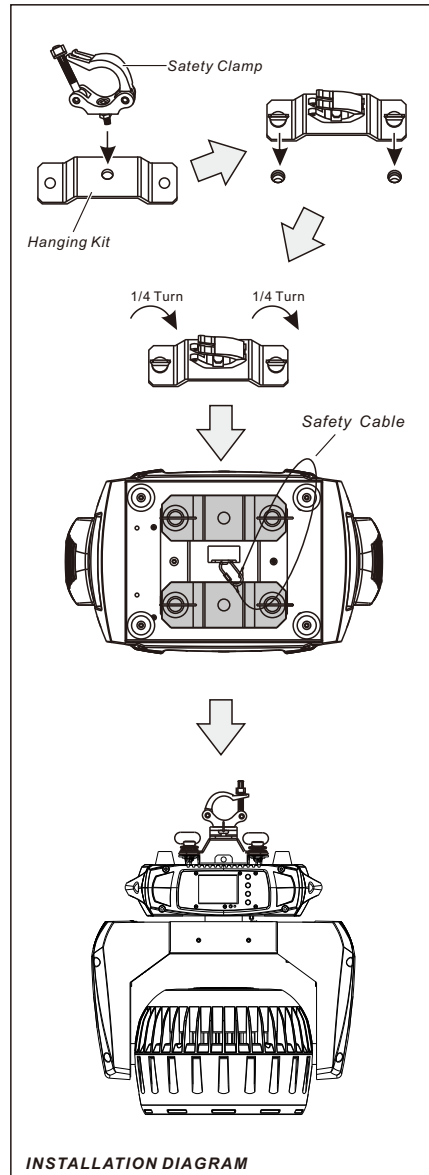
Mounting points:

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:

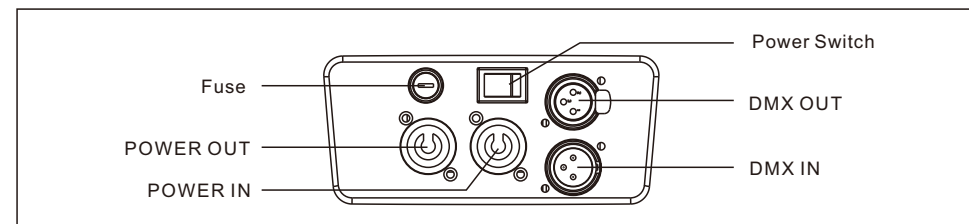
BR-1915P WASH ZOOM provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "Hanging Kit". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using one of the safety cable rigging points integrated in the base assembly .



			Patterns
20	14	18	000..015 No function
			016..031 Static patterns
			032..038 DynamicScene1
			039..045 DynamicScene2
			046..052 DynamicScene3
			053..059 DynamicScene4
			060..066 DynamicScene5
			067..073 DynamicScene6
			074..080 DynamicScene7
			081..087 DynamicScene8
			088..094 DynamicScene9
			095..101 DynamicScene10
			102..108 DynamicScene11
			109..115 DynamicScene12
			116..122 DynamicScene13
			123..129 DynamicScene14
			130..136 DynamicScene15
			137..143 DynamicScene16
			144..150 DynamicScene17
			151..157 DynamicScene18
			158..164 DynamicScene19
			165..171 DynamicScene20
			172..178 DynamicScene21
			179..185 DynamicScene22
			186..192 DynamicScene23
			193..199 DynamicScene24
			200..206 DynamicScene25
			207..213 DynamicScene26
			214..220 DynamicScene27
			221..227 DynamicScene28
			228..234 DynamicScene29
			235..241 DynamicScene30
			242..248 DynamicScene31
249..255 DynamicScene32			
			Static patterns or patterns speed
			Static Patterns (If channel 18 is in the interval 016 – 031)
21	15	19	000..007 static scene1
			008..015 static scene2
			016..023 static scene3
			024..031 static scene4
			032..039 static scene5
			040..047 static scene6
			048..055 static scene7
			056..063 static scene8
			064..071 static scene9
			072..079 static scene10
			080..087 static scene11
			088..095 static scene12
			096..103 static scene13
			104..111 static scene14
			112..119 static scene15
			120..127 static scene16
			128..135 static scene17
			136..143 static scene18
144..151 static scene19			

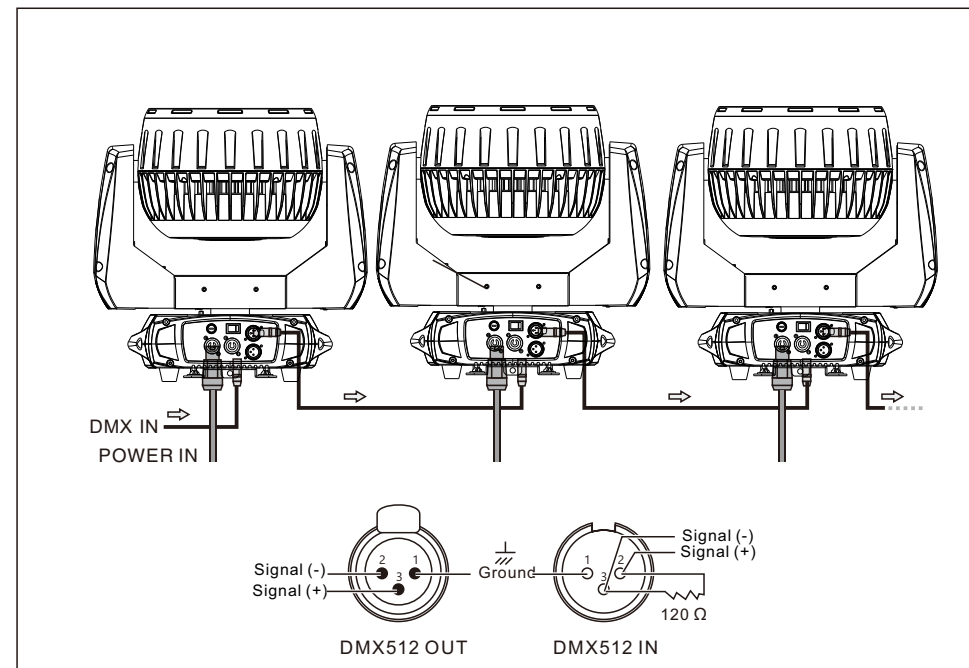
14				Color Temp	
				0..15	No Function
				16..45	Below3200K
				46..75	3200K- 3500K
				76..105	3500K- 5000K
				106..135	5000K- 5500K
				136..165	5500K- 6000K
				166..195	6000K- 6500K
15				Visual Tungsten Lamp	
				0..15	No Function
				16..255	Tungstenlampeffectis graduallyenhanced Foreground color for patterns
				0..0	No Function
				1..13	Red
				14..27	Green
				28..41	Blue
				42..55	White
16	10	14		56..69	Red+White
				70..83	Green+White
				84..97	Blue+White
				98..111	Green+Blue
				112..125	Red+Blue
				126..139	Red+Green
				140..153	Green+Blue+White
				154..167	Red+Blue+White
				168..181	Red+Green+White
				182..195	Red+Blue+Green+White
				196..202	2700K
				203..209	3200K
				210..216	3500K
				217..223	5000K
				224..230	5500K
				231..237	6000K
				238..244	6500K
				245..251	7000K
				252..255	8000K
				17	11
000..255	Foreground dimmer0 – 100%. Background color for patterns				
18	12	16		Background dimmer	
				000..255	Background dimmer0 – 100%.
				0..0	No Function
				1..13	Red
				14..27	Green
				28..41	Blue
				42..55	White
				56..69	Red+White
				70..83	Green+White
				84..97	Blue+White
				98..111	Green+Blue
				112..125	Red+Blue
				126..139	Red+Green
				140..153	Green+Blue+White
				154..167	Red+Blue+White
				168..181	Red+Green+White
				182..195	Red+Blue+Green+White
				196..202	2700K
				203..209	3200K
				210..216	3500K
217..223	5000K				
224..230	5500K				
231..237	6000K				
238..244	6500K				
245..251	7000K				
252..255	8000K				
19	13	17		Background dimmer	
				000..255	Background dimmer0 – 100%.

7.CONTROL CONNECTION

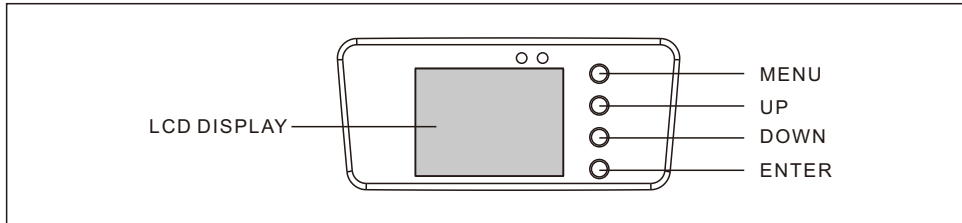


Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below. DMX-512 connection with DMX terminator.

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a3 resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



8.MENU OPERATIONS



MENU		Description	
Function Mode	Dmx Address	A001~AXXX	DMX address setting
	Channel Mode	CH20 MODE	20 Channel Mode
		CH14 MODE	14 Channel Mode
		CH92 MODE	92 Channel Mode
Auto Run	Internal Program 1~8	Master/Alone	Auto run
Music Control	Internal Program 1~8	Master/Alone	Sound Control
Option	Reset Default	Yes/No	Reset Default
	Signal Set	Wire DMX	Wire DMX
		Wireless DMX	Wireless DMX
		Act WDMX & Out	Act WDMX & Out
	Pan / Tilt	Reverse Pan (On/Off)	Reverse Pan
		Reverse Tilt (On/Off)	Reverse Tilt
		Select Pan 540°/360°/630°	Pan Degree, default is 540°
	Select Tilt 270°/90°/180°	Tilt Degree, default is 270°	
	UI SET	Mic SEN 0~99%	Sensitivity Setting
		OFF Signal Mode (On/Off)	OFF at original status and ON at reset status when no DMX signal
Information	Temperature	XXX°C/°F	Current Temperature
	Software Version	V1.0~V9.9	Software Version
Manual Control	Reset	Total Reset	Total Reset
		Pan/Tilt Reset	Pan/Tilt Reset
		Zoom Reset	Zoom Reset
Channel	PAN=XXX.....	Manual Control Channel	
Advanced (Access Code 088)	Calibration	PAN=XXX.....	Calibration(Code:088)

9.DMX PROTOCOL

Mode/Channel				Value	Function
98	92	20	14		
1	1	1	1	0..255	Pan
					PAN Movement
				0..255	Pan-fine Fine control of Pan movement
2	2	2	2	0..255	Tilt
					Tilt Movement
				0..255	Tile-fine Fine control of Tilt movement
3	3	3	3	0..225	Speed pan/tilt
				226..235	max to min speed
				236..255	blackout by movement
					no function
4	4	4	4	0..255	Dimmer
					Dimmer 0%...100%
5	5	5	5	0..31	Shutter
				32..63	Shutter closed
				64..95	shutter open
				96..127	Strobe effects slow to fast
				128..159	shutter open
				160..191	Pulse effect in sequence slow to fast
				192..255	shutter open
6	6	6	6	0..255	Red
					0-100% Red dimmer from dark to bright
7	7	7	7	0..255	Green
					0-100% Green dimmer from dark to bright
8	8	8	8	0..255	Blue
					0-100% Blue dimmer from dark to bright
9	9	9	9	0..255	White
					0-100% White dimmer from dark to bright
10	10	10	10	0..255	Zoom
					In (near) to out (far)
11	11	11	11	0..0	Virtual color
				1..13	No Function
				14..27	Red
				28..41	Green
				42..55	Blue
				56..69	White
				70..83	Red+White
				84..97	Green+White
				98..111	Blue+White
				112..125	Green+Blue
				126..139	Red+Blue
				140..153	Red+Green
				154..167	Green+Blue+White
				168..181	Red+Blue+White
				182..195	Red+Green+White
				196..202	Red+Blue+Green+White
				203..209	2700K
210..216	3200K				
217..223	3500K				
224..230	5000K				
231..237	5500K				
238..244	6000K				
245..251	6500K				
252..255	7000K				
					8000K