



## User Manual: Squared Caprice 19x40W Wash Pixel

## 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. gobo and graphic wheels and the internal lenses should be cleaned monthly. 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!

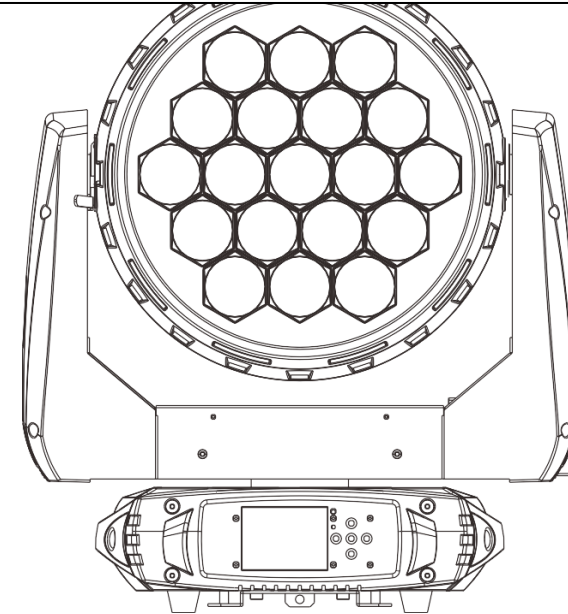
Clean two air filters placed in the fixture's covers and two in the fixture base. Use a vacuum cleaner, compressed air or you can wash them and put back dry.

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.

## SQUARELED CAPRICE 19 x 40W WASH PIXEL CONTROL



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 19"40W 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.

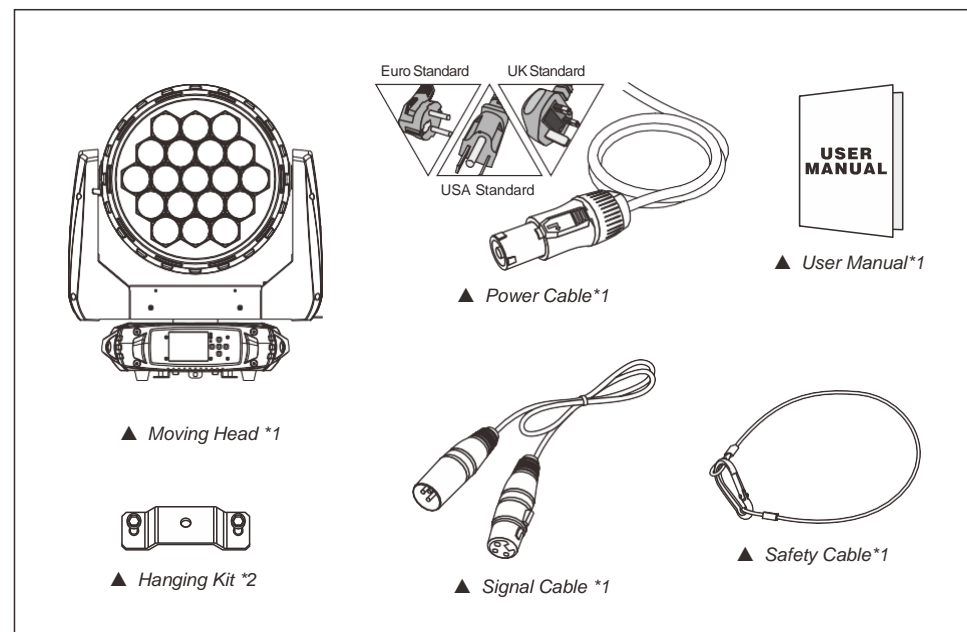
**CAUTION ! EYE DAMAGES !**  
Avoid looking directly into the light source  
(meant especially for epileptics) !

Mode/Channel				Value	Function
98	92	20	14		
76	70				<b>Blue in pixel 14</b>
				0..255	Blue in pixel 14 saturation control(0-100%)
77	71				<b>White in pixel 14</b>
				0..255	White in pixel 14 saturation control(0-100%)
78	72				<b>Red in Pixel15</b>
				0..255	White in pixel 15 saturation control (0-100%)
79	73				<b>Green in pixel 15</b>
				0..255	Green in pixel 15 saturation control(0-100%)
80	74				<b>Blue in pixel 15</b>
				0..255	Blue in pixel 15 saturation control(0-100%)
81	75				<b>White in pixel15</b>
				0..255	White in pixel 15 saturation control(0-100%)
82	76				<b>Red in Pixel 16</b>
				0..255	White in pixel 16 saturation control (0-100%)
83	77				<b>Green in pixel 16</b>
				0..255	Green in pixel 16 saturation control(0-100%)
84	78				<b>Blue in pixel 16</b>
				0..255	Blue in pixel 16 saturation control(0-100%)
85	79				<b>White in pixel 16</b>
				0..255	White in pixel 16 saturation control(0-100%)
86	80				<b>Red in Pixel 17</b>
				0..255	White in pixel 17 saturation control (0-100%)
87	81				<b>Green in pixel 17</b>
				0..255	Green in pixel 17 saturation control(0-100%)
88	82				<b>Blue in pixel 17</b>
				0..255	Blue in pixel 17 saturation control(0-100%)
89	83				<b>White in pixel 17</b>
				0..255	White in pixel 17 saturation control(0-100%)
90	84				<b>Red in Pixel 18</b>
				0..255	Red in pixel 18 saturation control (0-100%)
91	85				<b>Green in Pixel 18</b>
				0..255	Green in pixel 18 saturation control (0-100%)
92	86				<b>Blue in Pixel 18</b>
				0..255	Blue in pixel 18 saturation control(0-100%)
93	87				<b>White in pixel 18</b>
				0..255	White in pixel 18 saturation control(0-100%)
94	88				<b>Red in pixel 19</b>
				0..255	Red in pixel 19 saturation control(0-100%)
95	89				<b>Green in pixel 19</b>
				0..255	Green in pixel 19 saturation control(0-100%)
96	90				<b>Blue in pixel 19</b>
				0..255	Blue in pixel 19 saturation control(0-100%)
97	91				<b>White in pixel 19</b>
				0..255	White in pixel 19 saturation control(0-100%)
98	92	20	14		<b>Special function</b>
				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

Mode/Channel				Value	Function
98	92	20	14		
					<b>Red in Pixel 7</b>
46	40			0..255	White in pixel 7 saturation control (0-100%)
					<b>Green in pixel 7</b>
47	41			0..255	Green in pixel 7 saturation control(0-100%)
					<b>Blue in pixel 7</b>
48	42			0..255	Blue in pixel 7 saturation control(0-100%)
					<b>White in pixel 7</b>
49	43			0..255	White in pixel 7 saturation control(0-100%)
					<b>Red in Pixel 8</b>
50	44			0..255	Red in pixel 8 saturation control (0-100%)
					<b>Green in Pixel 8</b>
51	45			0..255	Green in pixel 8 saturation control (0-100%)
					<b>Blue in Pixel 8</b>
52	46			0..255	Blue in pixel 8 saturation control(0-100%)
					<b>White in pixel 8</b>
53	47			0..255	White in pixel 8 saturation control(0-100%)
					<b>Red in pixel 9</b>
54	48			0..255	Red in pixel 9 saturation control(0-100%)
					<b>Green in pixel 9</b>
55	49			0..255	Green in pixel 9 saturation control(0-100%)
					<b>Blue in pixel 9</b>
56	50			0..255	Blue in pixel 9 saturation control(0-100%)
					<b>White in pixel 9</b>
57	51			0..255	White in pixel 9 saturation control(0-100%)
					<b>Red in Pixel 10</b>
58	52			0..255	Red in pixel 10 saturation control (0-100%)
					<b>Green in pixel 10</b>
59	53			0..255	Green in pixel 10 saturation control(0-100%)
					<b>Blue in pixel 10</b>
60	54			0..255	Blue in pixel 10 saturation control(0-100%)
					<b>White in pixel 10</b>
61	55			0..255	White in pixel 10 saturation control(0-100%)
					<b>Red in Pixel 11</b>
62	56			0..255	Red in pixel 11 saturation control (0-100%)
					<b>Green in Pixel 11</b>
63	57			0..255	Green in pixel 11 saturation control (0-100%)
					<b>Blue in Pixel 11</b>
64	58			0..255	Blue in pixel 11 saturation control(0-100%)
					<b>White in pixel 11</b>
65	59			0..255	White in pixel 11 saturation control(0-100%)
					<b>Red in pixel 12</b>
66	60			0..255	Red in pixel 12 saturation control(0-100%)
					<b>Green in pixel 12</b>
67	61			0..255	Green in pixel 12 saturation control(0-100%)
					<b>Blue in pixel 12</b>
68	62			0..255	Blue in pixel 12 saturation control(0-100%)
					<b>White in pixel 12</b>
69	63			0..255	White in pixel 12 saturation control(0-100%)
					<b>Red in Pixel 13</b>
70	64			0..255	Red in pixel 13 saturation control (0-100%)
					<b>Green in pixel 13</b>
71	65			0..255	Green in pixel 13 saturation control(0-100%)
					<b>Blue in pixel 13</b>
72	66			0..255	Blue in pixel 13 saturation control(0-100%)
					<b>White in pixel 13</b>
73	67			0..255	White in pixel 13 saturation control(0-100%)
					<b>Red in Pixel 14</b>
74	68			0..255	Red in pixel 14 saturation control (0-100%)
					<b>Green in pixel 14</b>
75	69			0..255	Green in pixel 14 saturation control(0-100%)

## 2. UNPACKING

The 19\*40W WASH ZOOM adopts a 40W RGBW 4-IN-1 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 19\*40W 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

#### LIGHT SOURCE

- n Lamp: 19pcs LUMILEDS 4-IN-1 40W RGBW LEDS
- n Life span: 50000 hours
- n Color: RGBW

#### OPTICS

- n 6-60°Smooth electronic linear zoom

#### POWER SUPPLY

- n Input Voltage:AC90-260V 50/60Hz
- n Power Consumption: 810W

#### CONTROL

- n Control Signal:DMX512 master-slave and sound activated or auto operation
- n Control Channel: 20/14/92/98 DMX channels
- n USITT DMX-512
- n DMX recorder and edit function integrated

#### MOVEMENT

- n 8/16 bit smooth and precise resolution for PAN/TILT movement

#### WORKING ENVIRONMENT

- n Fan cooling system and blower fan cooling system combination
- n -35-45°C max ambient temperature
- n Constant temperature readout and management

#### FUNCTION

- n Protection Rating : IP 20

#### CONSTRUCTION&WEIGHT

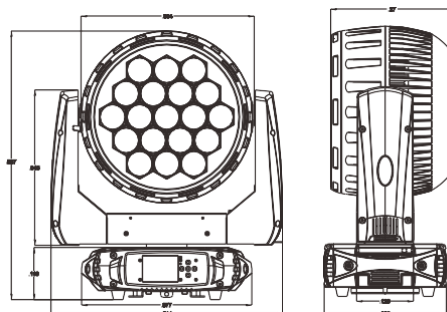
- n Dimension:519(D)\*271(W)\*597(H)mm
- n Packing Dimension: 519(D)\*271(W)\*597(H)mm
- n Net Weight: 26.5kg
- n Gross Weight: 28kg

#### FEATURES

- n Low power consumption
- n Using the three phase motor provide hight speed

and smoth scan and eliminate the rotational noise

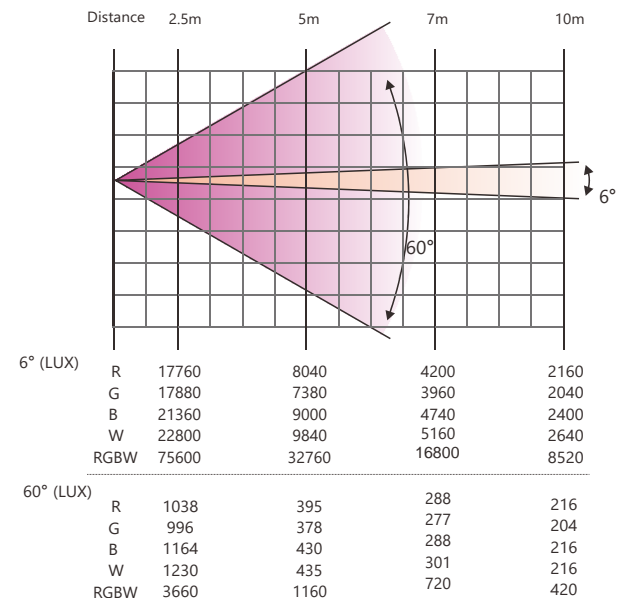
- n Pixel each color and each led controllable individually
- n Color temperature Liner up and down in 2700K-8000K
- n Scan position memory auto reposition after unexpected movement
- n Built-in running programs
- n Built-in color and graphic effect macros
- n 0-100% Linear LED dimmer
- n 1-25T/sec high speed LED shutter/strobe effect with variable speed
- n Preset variable/random strobe and dimming pulse effect
- n 3.2"TFT LCD touchdisplay (320\*240pix) with 5 con trol buttons
- n POWER CON connector IN
- n 3-Pin XLR connectors IN/OUT



Mode/Channel				Value	Function
98	92	20	14		
22	16				<b>Red in Pixel 1</b>
				0..255	Red in pixel 1 saturation control (0-100%)
23	17				<b>Green in Pixel 1</b>
				0..255	Green in pixel 1 saturation control (0-100%)
24	18				<b>Blue in Pixel 1</b>
				0..255	Blue in pixel 1 saturation control(0-100%)
25	19				<b>White in pixel 1</b>
				0..255	White in pixel 1 saturation control(0-100%)
26	20				<b>Red in pixel 2</b>
				0..255	Red in pixel 2 saturation control(0-100%)
27	21				<b>Green in pixel 2</b>
				0..255	Green in pixel 2 saturation control(0-100%)
28	22				<b>Blue in pixel 2</b>
				0..255	Blue in pixel 2 saturation control(0-100%)
29	23				<b>White in pixel 2</b>
				0..255	White in pixel 2 saturation control(0-100%)
30	24				<b>Red in Pixel 3</b>
				0..255	Red in pixel 3 saturation control (0-100%)
31	25				<b>Green in pixel 3</b>
				0..255	Green in pixel 3 saturation control(0-100%)
32	26				<b>Blue in pixel 3</b>
				0..255	Blue in pixel 3 saturation control(0-100%)
33	27				<b>White in pixel 3</b>
				0..255	White in pixel 3 saturation control(0-100%)
34	28				<b>Red in Pixel 4</b>
				0..255	Red in pixel 4 saturation control (0-100%)
35	29				<b>Green in pixel 4</b>
				0..255	Green in pixel 4 saturation control(0-100%)
36	30				<b>Blue in pixel 4</b>
				0..255	Blue in pixel 4 saturation control(0-100%)
37	31				<b>White in pixel 4</b>
				0..255	White in pixel 4 saturation control(0-100%)
38	32				<b>Red in Pixel 5</b>
				0..255	White in pixel 5 saturation control (0-100%)
39	33				<b>Green in pixel 5</b>
				0..255	Green in pixel 5 saturation control(0-100%)
40	34				<b>Blue in pixel 5</b>
				0..255	Blue in pixel 5 saturation control(0-100%)
41	35				<b>White in pixel 5</b>
				0..255	White in pixel 5 saturation control(0-100%)
42	36				<b>Red in Pixel 6</b>
				0..255	White in pixel 6 saturation control (0-100%)
43	37				<b>Green in pixel 6</b>
				0..255	Green in pixel 6 saturation control(0-100%)
44	38				<b>Blue in pixel 6</b>
				0..255	Blue in pixel 6 saturation control(0-100%)
45	39				<b>White in pixel 6</b>
				0..255	White in pixel 6 saturation control(0-100%)

Mode/Channel				Value	Function
98	92	20	14		
20	14	18		179..185	Dynamic Scene22
				186..192	Dynamic Scene23
				193..199	Dynamic Scene24
				200..206	Dynamic Scene25
				207..213	Dynamic Scene26
				214..220	Dynamic Scene27
				221..227	Dynamic Scene28
				228..234	Dynamic Scene29
				235..241	Dynamic Scene30
				242..248	Dynamic Scene31
				249..255	Dynamic Scene32
21	15	19		<b>Static patterns or patterns speed</b>	
				Static Patterns (If channel18 is in the interval 016 – 031)	
				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
				152..159	static scene20
				160..167	static scene21
				168..175	static scene22
				176..183	static scene23
				184..191	static scene24
				192..199	static scene25
				200..207	static scene26
				208..215	static scene27
				216..223	static scene28
				224..231	static scene29
				232..239	static scene30
				240..247	static scene31
				248..255	static scene32
				Dynamic Patterns (If channel18 is in the interval 032 – 255)	
				000..023	No function
				024..137	Forwardspeed from zero speed to fast speed
				138..141	Stop movement
				142..255	Reversespeed from zero speed to fast speed

#### 4. PHOTOMETRICS DIAGRAM



#### 5. OPERATION INSTRUCTIONS

- The 19°40W WASH ZOOMe is for beam&wash 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 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 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.

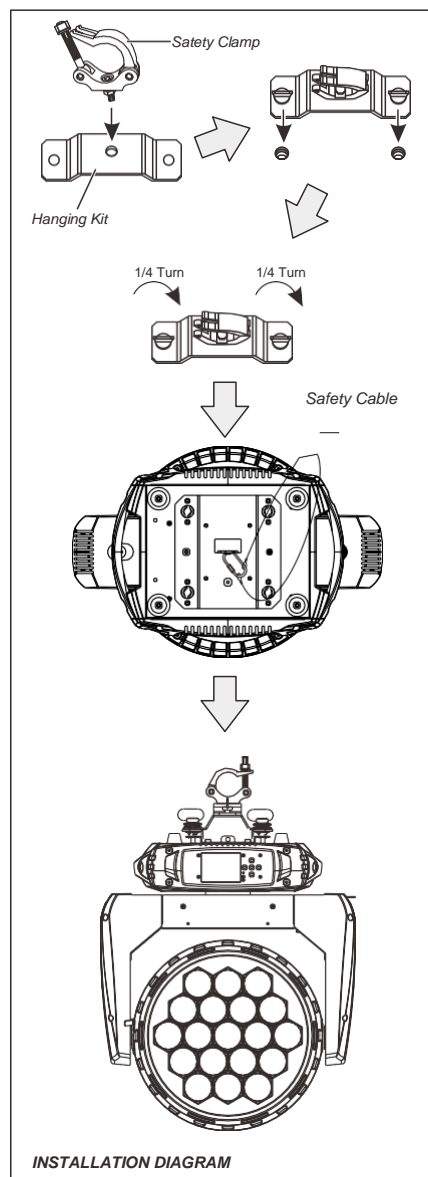
### Mounting points:

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:

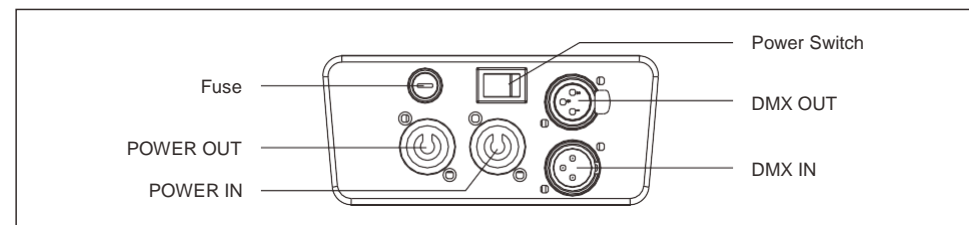
19\*40W WASH ZOOM provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 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.



Mode/Channel				Value	Function
98	92	20	14		
18	12	16	11		<b>Background color for patterns</b>
				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
19	13	17		231..237	6000K
				238..244	6500K
				245..251	7000K
				252..255	8000K
					<b>Background dimmer</b>
				000..255	Background dimmer 0 – 100%.
					<b>Patterns</b>
				000..015	No function
				016..031	Static patterns
				032..038	Dynamic Scene1
				039..045	Dynamic Scene2
				046..052	Dynamic Scene3
				053..059	Dynamic Scene4
				060..066	Dynamic Scene5
				067..073	Dynamic Scene6
				074..080	Dynamic Scene7
				081..087	Dynamic Scene8
				088..094	Dynamic Scene9
				095..101	Dynamic Scene10
				102..108	Dynamic Scene11
				109..115	Dynamic Scene12
				116..122	Dynamic Scene13
				123..129	Dynamic Scene14
20	14	18		130..136	Dynamic Scene15
				137..143	Dynamic Scene16
				144..150	Dynamic Scene17
				151..157	Dynamic Scene18
				158..164	Dynamic Scene19
				165..171	Dynamic Scene20
				172..178	Dynamic Scene21

Mode/Channel				Value	Function
98	92	20	14		
13	9	13	13	196..202	2700K
				203..209	3200K
				210..216	3500K
				217..223	5000K
				224..230	5500K
				231..237	6000K
				238..244	6500K
				245..251	7000K
14				252..255	8000K
				<b>Color Temp</b>	
				0..15	No Function
				16..45	Below 3200K
				46..75	3200K - 3500K
				76..105	3500K - 5000K
				106..135	5000K - 5500K
				136..165	5500K - 6000K
				166..195	6000K - 6500K
				196..225	6500K - 7000K
				226..255	7000K - 8000K
15				<b>Visual Tungsten Lamp</b>	
				0..15	No Function
				16..255	Tungsten lamp effect is gradually enhanced
16	10	14		<b>Foreground color for patterns</b>	
				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
17	11	15		<b>Foreground dimmer</b>	
				000..255	Foreground dimmer 0 – 100%.

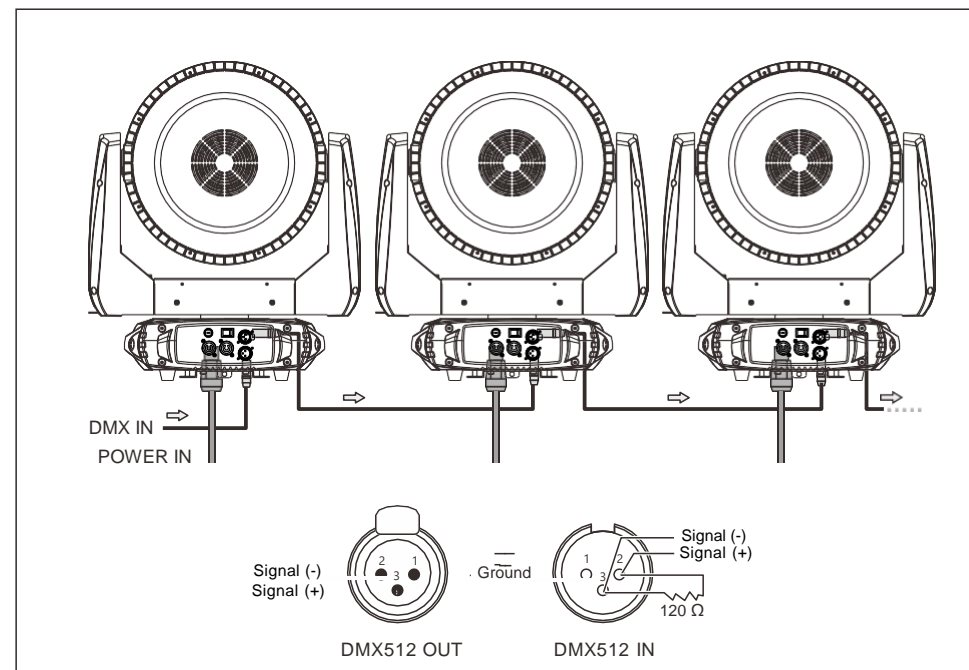
## 7.CONTROL CONNECTION



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.

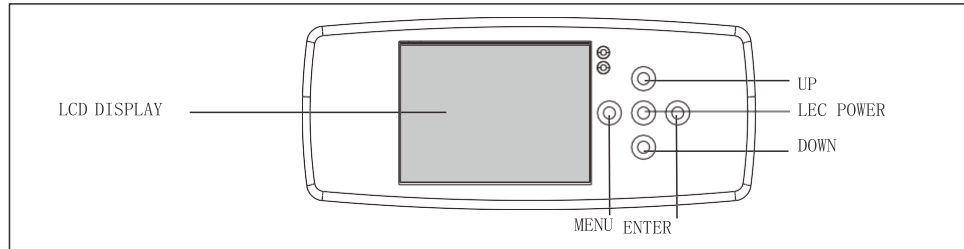
Please refer to the diagram below. DMX-512 connection with DMX terminator.

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 a 3 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	20 Channel Mode
		Ch14	14 Channel Mode
		Ch92	92 Channel Mode
		Ch98	98 Channel Mode
	Auto Run	Internal Program1~8	Master/Alone Auto run
Music Control	Internal Program1~8	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 630° /540° /360° Select Tilt 270° /180° /90°	Pan Degree, default is 540° Tilt Degree, default is 270°
	UI SET	Mic SENS 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
Software Version		V1.0~V9.9	Software Version
Reset	Reset	Total Reset	Total Reset
		Pan/Tilt Reset	Pan/Tilt Reset
		Zoom Reset	Zoom Reset
Manual	Channel	PAN=XXX.....	Manual Channel Control
Advanced	Calibration		Calibration(Code:088)

## 9. DMX PROTOCOL

Mode/Channel				Value	Function
98	92	20	14		
1	1	1	1		<b>Pan</b>
				0..255	PAN Movement
					<b>Pan-fine</b>
2	2	2	2	0..255	Fine control of Pan movement
					<b>Tilt</b>
				0..255	Tilt Movement
4	4	4	4		<b>Tilt-fine</b>
				0..255	Fine control of Tilt movement
					<b>Speed pan/tilt</b>
5	5	5	5	0..225	max to min speed
				226..235	blackout by movement
				236..255	no function
6	6	6	6		<b>Dimmer</b>
				0..255	Dimmer 0%...100%
					<b>Shutter</b>
7	7	7	7	0..31	Shutter closed
				32..63	shutteropen
				64..95	Strobe effect slow to fast
				96..127	shutteropen
				128..159	Pulse-effect in sequences slow to fast
					shutteropen
				160..191	Random strobe effect slow to fast
8		8	8	192..255	shutteropen
					<b>Red</b>
				0..255	0-100% Red dimmer from dark to bright
9		9	9		<b>Green</b>
				0..255	0-100% Green dimmer from dark to bright
					<b>Blue</b>
10		10	10	0..255	0-100% Blue dimmer from dark to bright
					<b>White</b>
				0..255	0-100% White dimmer from dark to bright
12	8	12	12		<b>Zoom</b>
				0..255	In(near)to out(far)
					<b>Virtual color</b>
13	9	13	13	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



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