



LED 19*60W

MAX Bee-eyes



COMET CF 19x60

CE F IP20 LED 0.2m t_a 40°C t_c 150°C

Manual book

Please read the manual carefully before using and keep it properly

1. Unpack

Thanks for your chosen of our lights. In order to use this product correctly and safely, please read the manual carefully before installation and operation. This manual contains important installation and application information. When installing and operating the product, please strictly follow the operating steps of the manual. Meanwhile, please keep this manual in a safe place.

This item uses a new and beautiful high temperature resistant engineering plastic shell and high hardness metal body. This product is designed and produced in strict accordance with CE standards. It conforms to the international standard DMX512 signal protocol. It can be used for control alone or online. It has the characteristics of fast rotation, low noise and powerful functions. It is suitable for large and medium-sized concerts, theaters, Studios, nightclubs, bars and other places.

This product uses 19 60W 4-in-1 LED beads with high brightness and stability. Please remove the packaging carefully, then check whether the product has been damaged during transportation, and check whether the following contents are complete.

Light-----1PC

Signal line----1PC

Fast Lock----- 2PCS

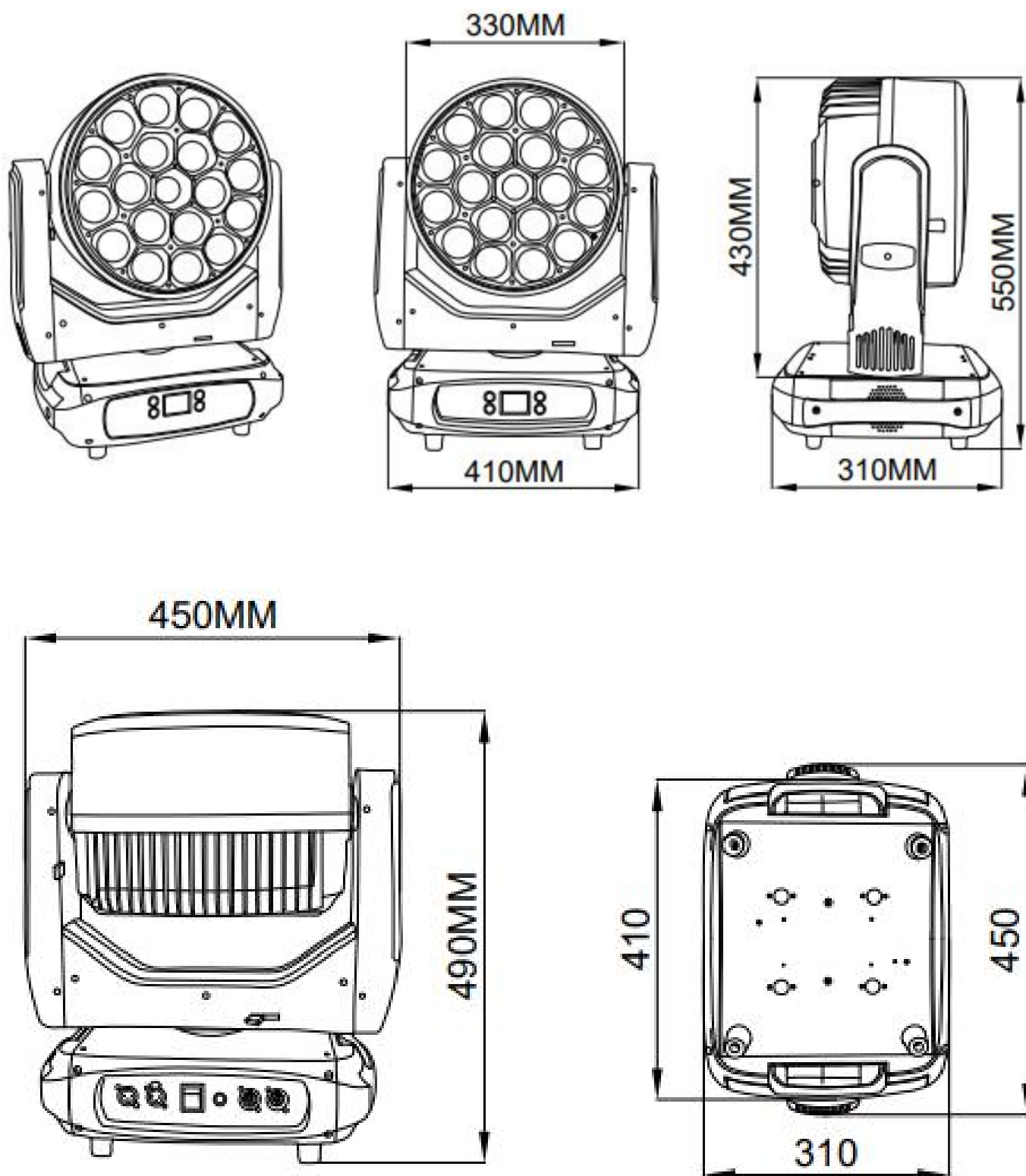
Manual book----1PC

Power line-----1PC

Safety rope----1PC

2. Product Size

Dimensions:




3. *Safety instructions*

Notice!

Exercise caution before operating this product. This product is a high-voltage product, and you may receive an electric shock if you touch the wires!

This product is in good condition before leaving the factory. In order to keep the product in good condition and ensure safe operation, users should follow the safety precautions and warnings in this manual.

 Important: Damage caused by fault operation is not covered under warranty. The supplier is not responsible for product problems caused by this.

If the product has been exposed to extreme unstable temperature environment (such as after transportation), please do not connect the product to the power supply immediately, as water droplets due to temperature changes may damage the product. Please use it after the product has returned to normal temperature.

This product can be used in the voltage range of 90-240V and is an indoor product. Please make sure that the voltage used is not higher than the product can withstand! ! The power plug must be inserted into a protected Class I socket. The green or teal conductor must be grounded.

Please check this product grade power cord frequently. Make sure the power cord is not folded or damaged and not connected to other wires! Special attention is required when connecting the power cord or related wiring. Always unplug this product when not in use or before cleaning.

Before using the product, please familiarize yourself with the operating functions of the product. Please keep the product away from children or unprofessional.

Please do not shake this product. Do not use brute force when installing or operating the product. Most of the damage is caused by unprofessional handling.

The product is not equipped with related maintenance parts. Maintenance and repair of the product should only be carried out by professionals!

Please do not modify this product without authorization, otherwise it may damage the product, so the damage caused is not covered by the warranty. Also, unprofessional handling may result in short circuits, burns or electric shocks, etc.

4. Instructions

- This product is a moving head wash beam light, used to create wash performance effects.
- If the product has undergone a large temperature difference (for example, after transportation), do not start the product immediately, because the heat and cold shrinkage will damage the product. Please wait until the device reaches normal room temperature before starting the product.
- Pay attention to shock resistance. Avoid strong collisions during product installation.
- Please do not lift the entire product by the light head, as the mechanics of the device may be damaged.
- When choosing an installation location, make sure that the product is not exposed to excessive heat, humidity or dust. Please do not place any wires on the ground, otherwise there is a risk of electric shock.
- Please secure the mounting point before installation.
- Please fasten the product with a safety rope and check that all screws are correct.
- Make sure the lens is in good condition. When the lens is damaged or scratched, please replace it.
- It is recommended that this product be operated by a technician who is familiar with this product. Operation of this equipment by non-technical personnel is prohibited, as many losses are the result of non-professional operation.
- Please keep the packing materials in a safe place for secondary transportation.
- Do not modify the product without the instructions of the manufacturer or distributor.
- Any equipment failure caused by the operation and use of this equipment not as specified in the instructions is not covered by the warranty. And any damage caused by short circuit, injury, electric shock, ultraviolet light, bulb explosion accident, etc. caused by this are not covered by the warranty.

5. Product hanging and installation

Note: For greater safety, please hang and install this product away from aisles, seating areas, or areas within reach. Before hanging this product, please make sure that the mounting point can bear 10 times the weight of the product.

Product installation must have double protection devices, such as safety ropes.

When hanging, dismantling or servicing this product, do not stand under the installation point

Please ensure that this product should be installed at least 0.5 meters away from flammable materials.

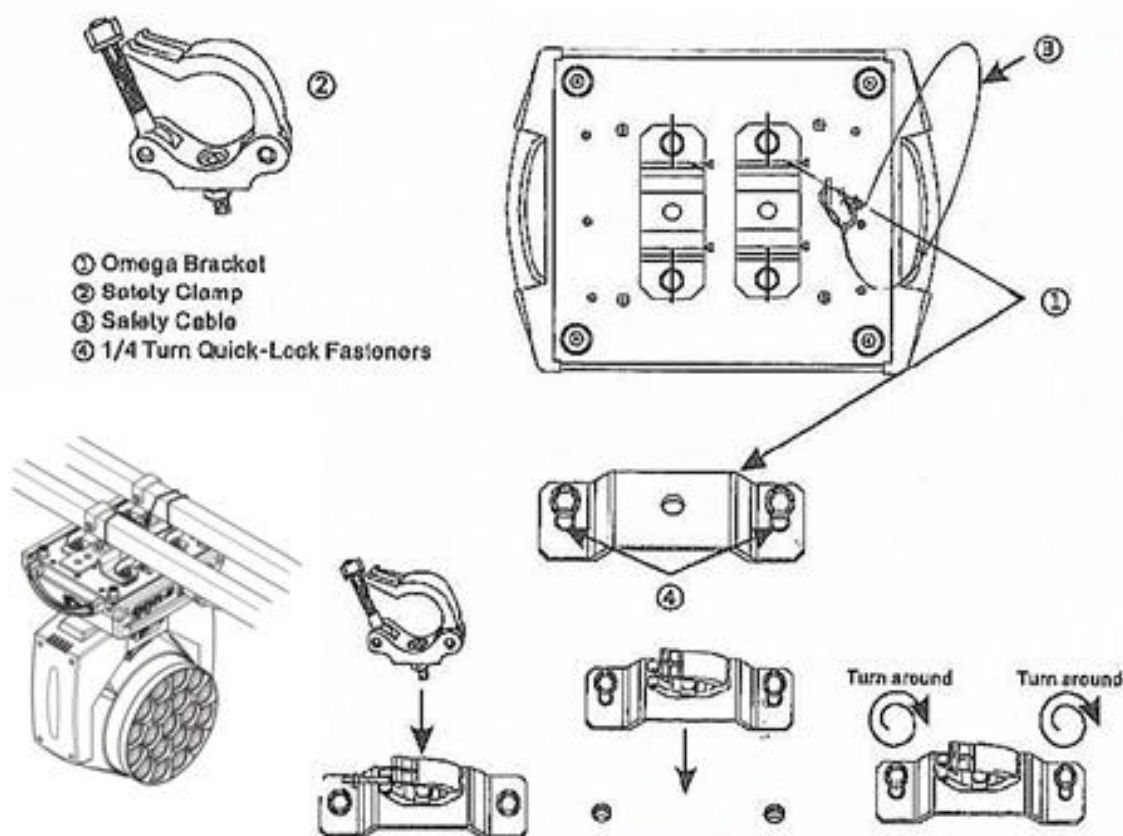
Please remember to use the safety rope as a safety guarantee to prevent accidents when the lock is released soon.

Hanging point: The top hanging requires that the installer must be experienced, including calculating the load-bearing requirements, the installation materials used, and the periodic inspection of the installation materials and the safety of the product. If you lack this knowledge, don't try to install it yourself. Incorrect operation may result in serious consequences such as personal injury.

Before the product is powered on, be sure to complete all required hanging and installation steps.

Quick Lock Hanging: There are specially designed professional hanging parts at the bottom of this product, including quick locking hanging parts and safety rope hanging points (please refer to the picture below).

When hanging this product on a truss, please remember to use a suitable quick-lock, fix it at the quick-lock hanger position of the product, and use M10 screws to hang it up. For further safety, please attach the safety rope to the safety rope hanging point at the bottom of the product and fasten

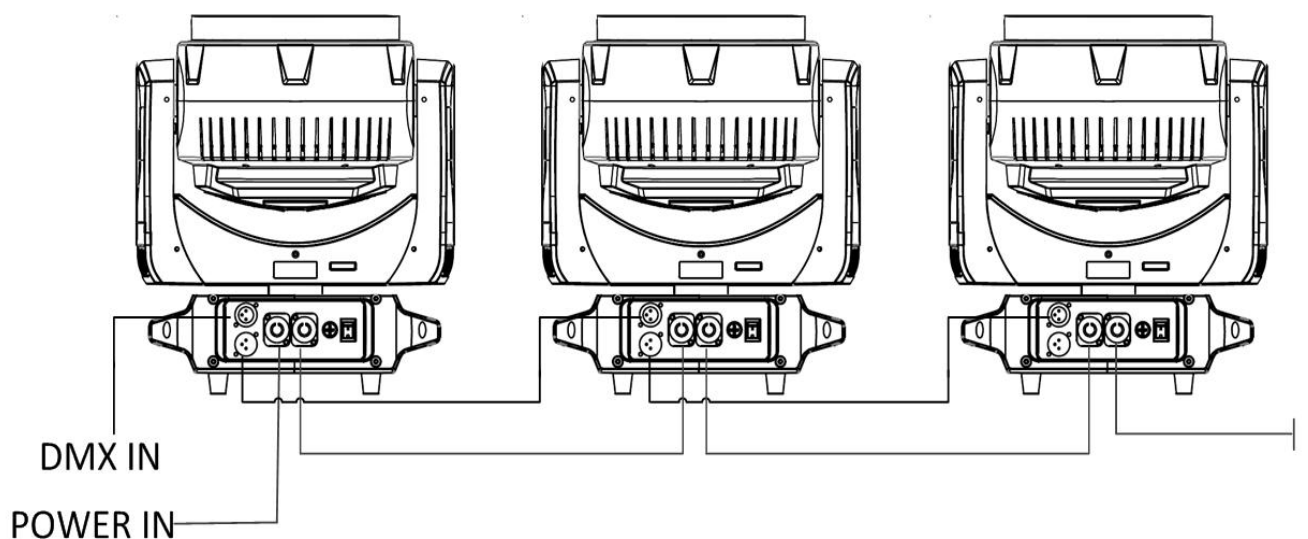


it to the truss.

No matter which hanger you choose, remember to always use the safety line. The bottom of the product is equipped with a special safety rope hanging point, please refer to the picture above, and please remember to use the specially provided safety rope hanging point, and never install the safety rope on the handle.

6. DMX-512 connection

Please insert the male end of the XLR signal cable provided with this product into the signal output port of the controller, and the female end into the signal input port on the rear panel of this product. You can connect multiple products in series, the signal line needs to be three-core, shielded, with XLR input and output. Please refer to the image



below.

DMX Output
3-Pin XLR Socket



DMX Input
3-Pin XLR Socket



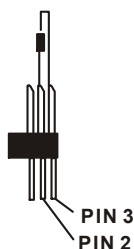
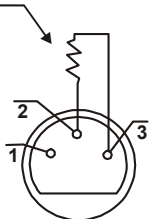
1: Ground
2: Data (-)
3: Data (+)



DMX-512 connection requires a terminator (loop connection)

During the installation process, if the signal line is laid for a long distance, or in an environment with noisy electrical appliances, such as a dance hall, it is recommended to use a DMX terminator (loop connection). This avoids turbidity of the digital control signal due to electrical noise. The DMX terminator is composed of a simple XLR connector 2-pin and 3-pin connected to a 120 ohm resistor. Please insert the terminator into the XLR output port of the last product, please refer to the figure below.

120 Ω



7. Channel Mod

22 /79/98 channel mode

22CH	22+RGB CH	22+RGBW CH	Function	DMX Value	Description
1	1	1	Red	0-255	Red from dark to bright linear dimmer
2	2	2	Red Fine	0-255	Red from dark to bright linear dimmer fine
3	3	3	Green	0-255	Green from dark to bright linear dimmer
4	4	4	Green Fine	0-255	Green from dark to bright linear dimmer fine
5	5	5	Blue	0-255	Blue from dark to bright linear dimmer
6	6	6	Blue Fine	0-255	Blue from dark to bright linear dimmer fine
7	7	7	White	0-255	White from dark to bright linear dimmer
8	8	8	White Fine	0-255	White from dark to bright linear dimmer fine
9	9	9	Color Temperature	0-255	Color temperature linear adjustment
10	10	10	Wash	0-255	Built-in Color gradient change
11	11	11	Strobe	0-3	Off
				4-103	Synchronous strobe speed from slow to fast (1HZ-25HZ)
				104-107	On
				108-207	Split strobe speed from slow to fast (1HZ-25HZ)
				208-212	On
				213-225	Low speed random strobe
				226-238	Medium speed random strobe
				239-251	High-speed random strobe
				252-255	On

12	12	12	Total Dimmer	0-255	From dark to bright linear dimmer
13	13	13	Dimmer Fine	0-255	Dimmer fine control
14	14	14	Pan	0-255	0-540 degrees
15	15	15	Pan Fine	0-255	16bit adjustable
16	16	16	Tlit	0-255	0-205 degrees
17	17	17	Tlit Fine	0-255	16bit adjustable
18	18	18	Function	0-255	Reserve
19	19	19	Reset	0-239	No Function
				240-255	The light is reset for 5s and is valid
20	20	20	Zoom	0-255	The zooming angle is from small to big linear adjustment
21	21	21	Rotation	0-127	0~60 degrees
				128-191	Counterclockwise from fast to slow infinitely rotate
				200-255	Clockwise from slow to fast infinitely rotate
22	22	22	Frequency	0-255	Shape and frequency modes can be selected
	23	23	R1 LED Dimmer	0-255	R1 LED Dimmer
	24	24	G1 LED Dimmer	0-255	G1 LED Dimmer
	25	25	B1 LED Dimmer	0-255	B1 LED Dimmer
		26	W1 LED Dimmer	0-255	W1 LED Dimmer

	77	95	R19 LED Dimmer	0-255	R19 LED Dimmer
	78	96	G19 LED Dimmer	0-255	G19 LED Dimmer
	79	97	B19 LED Dimmer	0-255	B19 LED Dimmer
		98	W19 LED Dimmer	0-255	W19 LED Dimmer

25/ /101 channel mode

25CH	25+RGBW CH	Function	DMX Value	Description
1	1	Red	0-255	Red from dark to bright linear dimmer
2	2	Green	0-255	Green from dark to bright linear dimmer
3	3	Blue	0-255	Blue from dark to bright linear dimmer
4	4	White	0-255	White from dark to bright linear dimmer
5	5	Color Temperature	0-255	Color temperature linear adjustment
6	6	Wash	0-255	Built-in color gradient
7	7	Strobe	0-3	Off
			4-103	Synchronous strobe speed from slow to fast (1HZ-25HZ)
			104-107	On
			108-207	Split strobe speed from slow to fast (1HZ-25HZ)
			208-212	On
			213-225	Low speed random strobe
			226-238	Medium speed random strobe
			239-251	High-speed random strobe
			252-255	On
8	8	Total Dimmer	0-255	From dark to bright linear dimmer
9	9	Pan	0-255	0-540 degree
10	10	Pan Fine	0-255	16bit adjustable
11	11	Tilt	0-255	0-205 degrees
12	12	Tilt fine	0-255	16bit adjustable
13	13	Function	0-255	Reserve
14	14	XY Speed	0-255	Speed from fast to slow
15	15	Zoom	0-255	Zoom angle from small to big linear adjustment
16	16	Rotation	0-127	0~60degrees
			128-191	Counterclockwise from fast to slow infinitely
			200-255	Clockwise from slow to fast stepless

17	17	Pattern Selection	0-255	Pattern rotation
18	18	Pattern Effect Speed	0-255	Pattern effect speed control
19	19	Pattern Fade	0-255	Pattern fade
20	20	Pattern Effect red	0-255	Pattern Effect red
21	21	Pattern Effect Green	0-255	Pattern Effect Green
22	22	Pattern Effect Blue	0-255	Pattern Effect Blue
23	23	Pattern Effect White	0-255	Pattern Effect White
24	24	Pattern Transition Transfer	0-255	Pattern Transition Transfer
25	25	Pattern Angle Adjustment Pan	0-255	Pattern Translation
	26	R1 LED Dimmer	0-255	R1 LED Dimmer
	27	G1 LED Dimmer	0-255	G1 LED Dimmer
	28	B1 LED Dimmer	0-255	B1 LED Dimmer
	29	W1 LED Dimmer	0-255	W1 LED Dimmer

	98	R19 LED Dimmer	0-255	R19 LED Dimmer
	99	G19 LED Dimmer	0-255	G19 LED Dimmer
	100	B19 LED Dimmer	0-255	B19 LED Dimmer
	101	W19 LED Dimmer	0-255	W19 LED Dimmer

36/ 93/112channel mode

36CH	36+RGB CH	36+RGBW CH	Function	DMX Value	Description
1	1	1	Red	0-255	Red from dark to bright linear dimmer
2	2	2	Red Fine	0-255	Red from dark to bright linear dimmer fine
3	3	3	Green	0-255	Green from dark to bright linear dimmer
4	4	4	Green Fine	0-255	Green from dark to bright linear dimmer fine
5	5	5	Blue	0-255	Blue from dark to bright linear dimmer
6	6	6	Blue Fine	0-255	Blue from dark to bright linear dimmer fine

7	7	7	White	0-255	White from dark to bright linear dimmer
8	8	8	White Fine	0-255	White from dark to bright linear dimmer fine
9	9	9	Color Temperature	0-255	Color temperature linear adjustment
10	10	10	Wash	0-255	Built-in color gradient
11	11	11	Strobe	0-3	Off
				4-103	Synchronous strobe speed from slow to fast (1HZ-25HZ)
				104-107	On
				108-207	Split strobe speed from slow to fast (1HZ-25HZ)
				208-212	On
				213-225	Low speed random strobe
				226-238	Medium speed random strobe
				239-251	High-speed random strobe
				252-255	On
12	12	12	Total Dimmer	0-255	From dark to bright linear dimmer
13	13	13	Dimmer Fine	0-255	Dimmer Fine Control
14	14	14	Pan	0-255	0-540 degree
15	15	15	Pan Fine	0-255	16bit adjustable
16	16	16	Tilt	0-255	0-205 degrees
17	17	17	Tilt Fine	0-255	16bit adjustable
18	18	18	Function	0-255	Reserve
19	19	19	Reset	0-239	No Function
				240-255	The light is reset for 5s and is valid
20	20	20	Zoom	0-255	The zooming angle is from samll to big linear adjustment

21	21	21	Rotation	0-127	0~60Degree
				128-191	Counterclockwise from fast to slow infinitely rotate
				200-255	Clockwise from slow to fast infinitely rotate
22	22	22	Pattern Selection	0-255	Pattern Rotation
23	23	23	Pattern effect speed	0-255	Pattern effect speed control
24	24	24	Pattern Fade	0-255	Pattern fade
25	25	25	Pattern Effect Red	0-255	Pattern Effect red
26	26	26	Pattern Effect Green	0-255	Pattern Effect Green
27	27	27	Pattern Effect Blue	0-255	Pattern Effect Blue
28	28	28	Pattern Effect White	0-255	Pattern Effect White
29	29	29	Pattern Dimmer	0-255	Pattern 0-100%Dimmer
30	30	30	Background Dimmer	0-255	Background 0-100%Dimmer
31	31	31	Pattern Transition Transfer	0-255	Pattern Change Control
32	32	32	Pattern Angle Adjustment Pan	0-255	Pattern Translation
33	33	33	Foreground strobe	0-255	Foreground strobe (same as channel 11)
34	34	34	Background strobe	0-255	Background strobe (same as channel 11)
35	35	35	Background selection	0-255	Background Selection
36	36	36	Frequency	0-255	Shape and frequency modes can be selected
	37	37	R1 LED Dimmer	0-255	R1 LED Dimmer
	38	38	G1 LED Dimmer	0-255	G1 LED Dimmer
	39	39	B1 LED Dimmer	0-255	B1 LED Dimmer
		40	W1 LED Dimmer	0-255	W1 LED Dimmer

	91	109	R19 LED Dimmer	0-255	R19 LED Dimmer
	92	110	G19 LED Dimmer	0-255	G19 LED Dimmer
	93	111	B19 LED Dimmer	0-255	B19 LED Dimmer
		112	W19 LEDDimmer	0-255	W19 LED Dimmer

43/119 Channel Mode

1	1	Red	0-255	Red from dark to bright linear dimmer
2	2	Red Fine	0-255	Red from dark to bright linear dimmer fine
3	3	Green	0-255	Green from dark to bright linear dimmer
4	4	Green Fine	0-255	Green from dark to bright linear dimmer fine
5	5	Blue	0-255	Blue from dark to bright linear dimmer
6	6	Blue Fine	0-255	Blue from dark to bright linear dimmer fine
7	7	White	0-255	White from dark to bright linear dimmer
8	8	White Fine	0-255	White from dark to bright linear dimmer fine
9	9	Color Temperature	0-255	Color temperature linear adjustment
10	10	Wash	0-255	Built-in color gradient
11	11	Strobe	0-3	Off
			4-103	Synchronous strobe speed from slow to fast (1HZ-25HZ)
			104-107	On
			108-207	Split strobe speed from slow to fast (1HZ-25HZ)
			208-212	On
			213-225	Low speed random strobe
			226-238	Medium speed random strobe
			239-251	High-speed random strobe
			252-255	On
12	12	Total Dimmer	0-255	From dark to bright linear dimmer
13	13	Dimmer Fine	0-255	Dimmer Fine Control
14	14	Pan	0-255	0-540 degree
15	15	Pan Fine	0-255	16bit adjustable
16	16	Tilt	0-255	0-205 degrees
17	17	Tilt Fine	0-255	16bit adjustable
18	18	Function	0-255	Reserve

19	19	Reset	0-239	No Function
			240-255	The light is reset for 5s and is valid
20	20	Zoom	0-255	The zooming angle is from small to big linear adjustment
21	21	Rotation	0-127	0~60Degree
			128-191	Counterclockwise from fast to slow infinitely rotate
			200-255	Clockwise from slow to fast infinitely rotate
22	22	Pattern Selection	0-255	Pattern Rotation
23	23	Pattern effect speed	0-255	Pattern effect speed control
24	24	Pattern Fade	0-255	Pattern fade
25	25	Pattern Effect Red	0-255	Pattern Effect red
26	26	Pattern Effect Green	0-255	Pattern Effect Green
27	27	Pattern Effect Blue	0-255	Pattern Effect Blue
28	28	Pattern Effect White	0-255	Pattern Effect White
29	29	Pattern Dimmer	0-255	Pattern 0-100%Dimmer
30	30	Background Dimmer	0-255	Background 0-100%Dimmer
31	31	Pattern Transition Transfer	0-255	Pattern Change Control
32	32	Pattern Angle Adjustment Pan	0-255	Pattern Translation
33	33	Foreground strobe	0-255	Foreground strobe (same as channel 11)
34	34	Background strobe	0-255	Background strobe (same as channel 11)
35	35	Background selection	0-255	Background selection
36	36	Frequency	0-255	Shape and frequency modes can be selected
37	37	Strip Light dimmer	0-255	Linear dimming from dark to bright
38	38	Strip Light strobe	0-3	Off
			4-255	Synchronous strobe
			251-255	On
39	39	Strip Light R	0-255	Linear dimmer from dark to bright
40	40	Strip Light G	0-255	Linear dimmer from dark to bright
41	41	Strip Light B	0-255	Linear dimmer from dark to bright

42	42	LED strip macro function	0-51	Built-in color
			52-55	Effect 1
			56-59	Effect 2
			...	Each 4 DMX values per effect
			252-255	Effect 51
43	43	Strip Light Effect Speed	0-255	From slow to fast
	44	R1 LED Dimmer	0-255	R1 LED Dimmer
	45	G1 LED Dimmer	0-255	G1 LED Dimmer
	46	B1 LED Dimmer	0-255	B1 LED Dimmer
	47	W1 LED Dimmer	0-255	W1 LED Dimmer

	116	R19 LED Dimmer	0-255	R19 LED Dimmer
	117	G19 LED Dimmer	0-255	G19 LED Dimmer
	118	B19 LED Dimmer	0-255	B19 LED Dimmer
	119	W19 LED Dimmer	0-255	W19 LED Dimmer

8: Menu diagram

Menu	Address	001-512	
	Setup	Run mode	DMX/auto run1/auto run 2/Sound active
		Channel Mode	32CH/128CH
		Horizontal inversion	ON/OFF
		Vertical inversion	ON/OFF
		Hall error correction	ON/OFF
		Sensor error correction	ON/OFF
		Signal hold	ON/OFF
		Screen protector	ON/OFF
		Screen flip	Auto/ON/OFF
		Synchronization	ON/OFF
		Language	中文/EN
		Reset	Enter/Cancel
	Manual Mode		
	System calibration	X motor	001-255
		Y motor	001-255
		Focus motor	001-255
		Rotation motor	001-255
		Red fine	001-255
		Green fine	001-255
		Blue fine	001-255
		White fine	001-255
		Power	001-255
		Red 1 fine	001-255
		• • • • •	• • • • •
		Red 19 fine	001-255
		MIC sensitivity	001-255
		Change password	
	System reset	Effect motor reset	
		Scan motor reset	
		All motors reset	
	System info	Reset info	
		DMX data monitoring	
		Sensor Information	Hardware Version
			Software version

9. *Parameter*

- *POWER SUPPLIES:100-240V 50/60Hz
- *LAMP SOURCE:19×60W Osram RGBW 4in1 LEDs,50,000 h.
- *LED Strips: 5050RGB 83PCS*0.12W
- *Color temperature:2500 - 8000K
- *4°-60° Electronic Zoom angle
- *3 operating modes: wash, beam, FX (Kaleido effects)
- *Front Lens Bi-directional Rotation
- *Digital Wash-Beam Framing effect
- *Beam edge softening control (in Wash mode)
- *0-100% linear electronic dimmer
- *Adjustable speed stop/strobe effect,
- *with instantaneous blackout
- *Dedicated channel for color temperature setting
- *Channel:22/79/98/25/101/36/93/112/43/119CH
- *Automatic repositioning of PAN and TILT after accidental
- *movement not controlled by control unit.
- *Display:LCD display, Travel: PAN = 540°,TILT = 210°
- Size:645x535x415mm Weight:21 Kg

Features:

1. Each lamp bead can be controlled individually.
2. The lens with unique honeycomb design can be rotated infinitely to bring a variety of fantastic effects.
3. The display can be automatically rotated 180° to adapt to different installation angles.
4. It integrates various effects and uses such as focusing, beam, dyeing, and pattern.
5. Scanning position memory function, which can be reset automatically.
6. With fan cooling and temperature automatic detection function, the system will automatically stop working when the temperature is too high to protect the lamp.

10. Product Care and Cleaning

Please note the following points when testing this product:

1. All screws and parts for installing the product must be tightly connected and not rusted.
2. The shell, lens, fixtures and installation locations (such as ceilings, hangers, trusses, etc.) cannot be deformed
3. The mechanical moving parts must not be worn or rotated unbalanced.
4. The power cord must not have any damage, material breakage or scars, etc.

The installation and use of the product must be carried out by trained professional and technical personnel, and safety hazards must be eliminated.

Note: Please unplug the power cord before maintenance.

To keep the product in good condition and prolong its lifespan, we recommend regular cleaning of the product.

1. Clean the outer lens and inner lens of the product every week to prevent the light output of the product from being reduced due to dust accumulation on the lens.
2. Clean the fan every week.
3. Every three months, a professional electrical engineer will conduct a detailed circuit inspection of the product to ensure that the circuit contacts are in good condition to prevent the circuit contacts from aging due to overheating.

We recommend that the product should be cleaned regularly, please be careful not to use damp or linen cloth, and never use alcohol or solvents for cleaning.

This product does not come with replacement parts, please refer to the "Installation Instructions" section.

If the user needs any spare parts, please purchase from the local dealer.