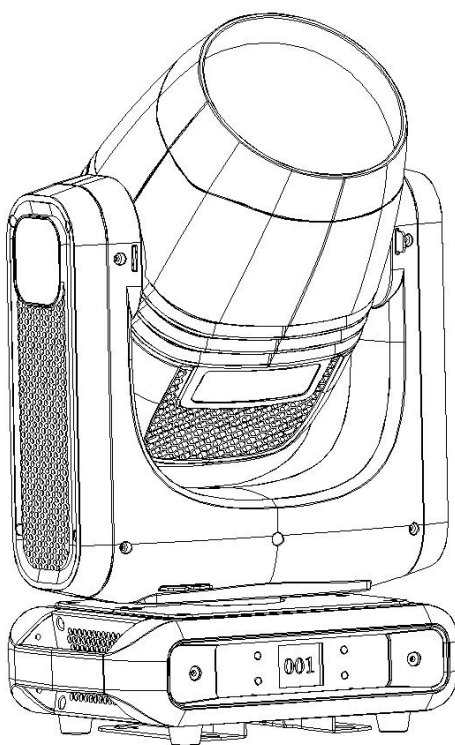


200 LED BEAM

INSTRUCTION MANUAL



INDEX

TECHNICAL INFORMATION.....	2
SAFETY INFORMATION.....	3
INSTALLATION	5
POWER	7
XRL Connection	9
DMX CHANNELS.....	12
MAINTENANCE	18

Congratulations on choosing this 200W Led Beam Moving Head!

Before using our products, please read carefully and fully understand all the safety instructions recorded in this book to avoid potential risks of physical injury, property damage or product damage. The company does not undertake any direct loss and associated loss caused by the failure to comply with the instructions.

TECHNICAL INFORMATION

Specification:

Light Source: One piece White LED engine(7500K)

Optical system: Ø 160mm front lens

Beam aperture: 2°

Focus: Motorised focus lens

Prism: 2 Rotating prism wheel(8-facet Prism + 12-facet prism)

Frost: gradual Frost

Dimmer: 16-bit Electronic Dimmer with 4 curves

Color: One color wheel with 14 Colors

Gobo: One gobo wheel with 17 Gobos

Control and programming

Protocols: USITT DMX/RDM

Electronic strobe @ 25f/sec

USITT DMX Channels: 24ch

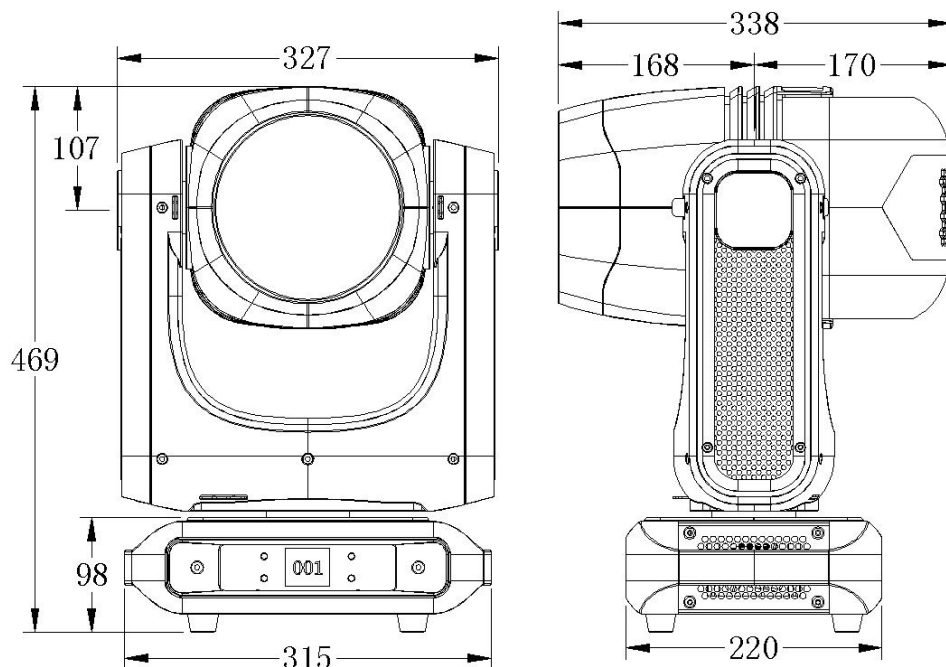
16-bit Pan & Tilt movement, 3-Phase step motors

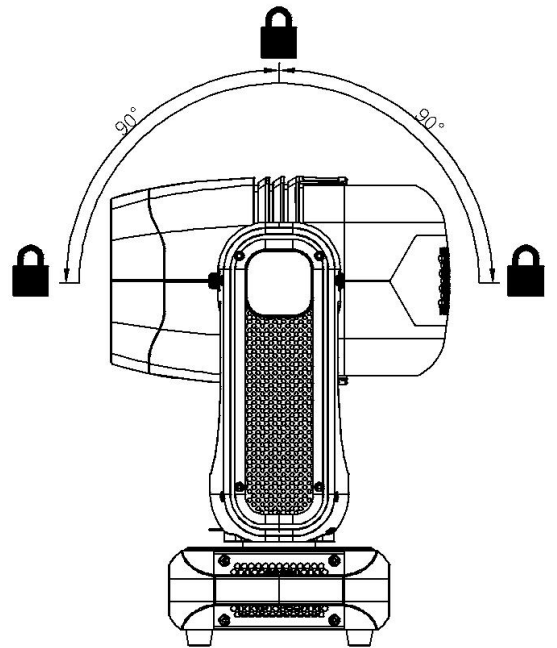
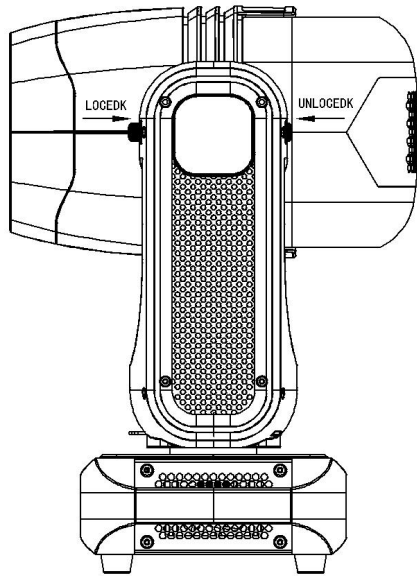
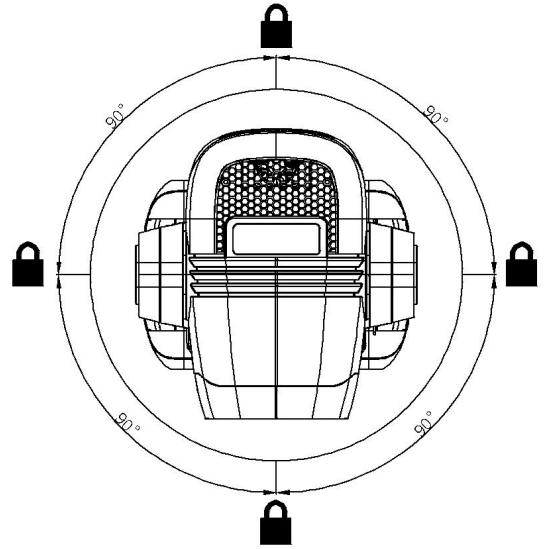
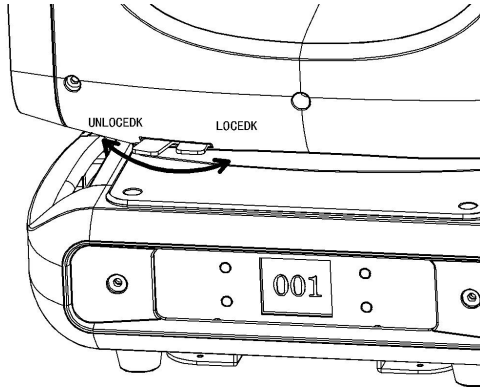
Extremely compact and light

Weight: 15KG

Size: 315*338*469mm

Net Weight: 14.1Kg





SAFETY INFORMATION

This product is for professional use only, and prohibits family use.

Before installing, electrifying and maintaining this product, please read the safety information part of this chapter first.

Electric shock protection

- ◆ Please disconnect the external power when opening the shell or changing parts, or when the luminaire is not in use.
- ◆ Ensure that equipment is reliable and use AC power supply with overload and earthing protection to match voltage and frequency of lamps and lanterns.
- ◆ Use three core power cables with rated load of 5A or more.
- ◆ Before use, ensure that the cable is in normal condition and suitable for the current quantity of the equipment.
- ◆ Disconnect the power supply immediately when it is found that the power cable or plug is damaged, the lamp is wet or the power supply part is obviously overheated.
- ◆ Do not expose this product to rain or damp air.
- ◆ Ensure reliable grounding of equipment.

Light source safety

- ◆ Long exposure to ultraviolet rays from unshadowed sources can cause burns to the eyes and skin. Do not look directly at the aperture and the light source.
- ◆ Do not use lamps damaged by enclosure, baffle, lens, protective screen or heat shield.
- ◆ The protective screen, lens or ultraviolet screen on the lamp should be replaced if visible damage occurs, i.e. to the extent of failure, such as cracks or deep marks.
- ◆ The luminaire should only be used with a full protective cover.

Prevention of burns and fires

- ◆ The surface temperature of the lamp may be higher during use. Avoid touching human body or other objects. Keep the lamp cool sufficiently before handling.
- ◆ Keep combustible materials (such as fabric, wood, paper, etc.) away from lamps and lanterns at least 0.2 meters. Keep combustible materials away from the equipment as far as possible, and ensure that there is at least 0.2 meters of room in and out of the air vent.
- ◆ Do not irradiate the surface within 2 meters directly
- ◆ Cover or rotate the lens during the day to avoid direct sunlight, as the lens can focus on the sun and cause potential fire hazards.
- ◆ When the ambient temperature exceeds 40 degrees C (104 degree F), do not turn on the machine.
- ◆ Never refit this luminaire, install non-original parts, paste any filter paper or pictures on lenses or other optical fittings.

- ◆ No attempt to short-circuit the fuse or thermostat switch.

◆

Avoid falling injury

- ◆ Do not carry lanterns alone when working overhead.
- ◆ Two evenly distributed light hooks should be used on the hangers, and no single light hook should be used.
- ◆ Ensure that the support and suspension system can support more than 10 times the lamp

weight.

- ◆ The key points for lifting lamps and hanging safety cables shall not be on the handle of lamps and lanterns.
- ◆ The safety rope must be installed. The safety rope must bear 10 times the weight of the luminaire.
- ◆ Ensure that external fittings and spreader are completely fastened.
- ◆ There should be a stable platform for installation, maintenance and mobile lighting, and a safety fence should be installed below it.
- ◆ Please consult the authorized after sales department for the related operations described in this article.

INSTALLATION

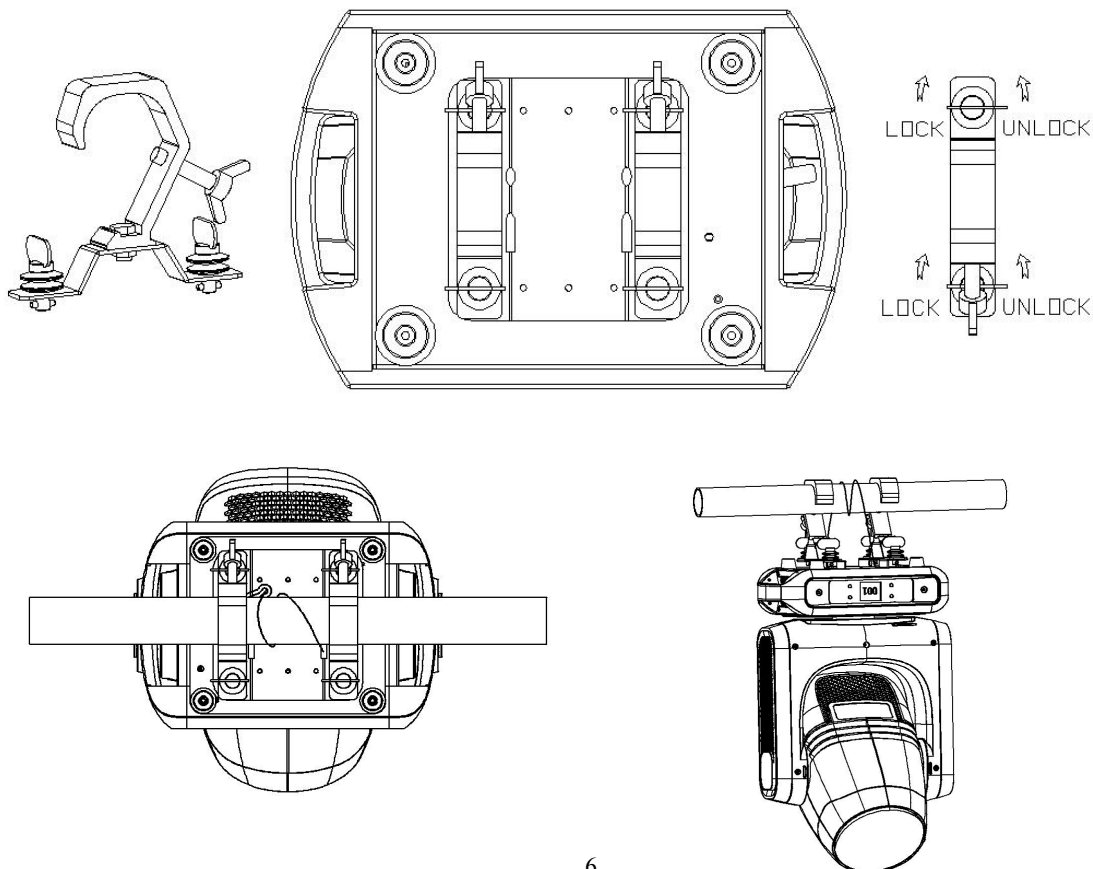
Warning:



! When installing the luminaire, additional safety rope must be installed to prevent the damage caused by the failure of the lamp hook.



- ◆ The safety rope shall be attached to the installation position of the safety rope of the luminaire and shall not be installed on the handle handle.
- ◆
- ◆ When the lamp is not placed safely, the movement of the lamp head may cause the movement of the base.
- ◆
- ◆ Therefore, do not turn on the machine if the lamp is not firmly placed or hung.
- ◆
- ◆ No side hanging installation and use of lamps!
- ◆ Cover the lens or rotate the lens in the daytime to avoid direct sunlight to the lens.
- ◆
- ◆ Because the lens can focus on sunlight, causing potential fire hazards.



1. Install the lamp hook on the OMEGA bracket and tighten the screws.
2. Install the OMEGA bracket to the lamp base and tighten the fastener quickly.
3. Each people on both sides of the luminaire lift up the luminaire and clip the lamp hook into the lamp post and lock it tightly.
4. Secure the rope through the base hole and tie it to the lamppost.
3. Open the horizontal and vertical locks of lamps and lanterns.

Installation notes:

1. It is confirmed that the hanging hook and accessories are not damaged and can withstand 10 times the total weight of luminaires and cables and accessories.
2. Pay attention to the front direction of the luminaire marked on the bottom of the lamp base.
3. There should be a stable platform for installation, maintenance and mobile lighting, and a safety fence should be installed below it.
4. connect the safety rope through the safety rope hole of the lamp base to the lamp holder and not to the handle
- 5.
6. Check that there are no flammable materials within 0.2 meters of the lamp housing, and that the light column of the lamp should not be blocked within 2 meters, and that there are no flammable materials nearby.
7. check whether the Illuminum can collide with each other during sports.
8. Check that the other lamp does not shine directly on the lamp. Intense light will damage the protective case of the lamp.
9. when installing, ensure that the installation surface is at the level, so as to avoid slipping during the operation of the luminaire.

POWER



Warning

To prevent electric shock, the luminaire must be grounded, and the main power source must be insured and open.



Switch and earthing protection

Please connect the luminaire directly to the AC power supply and not connect the silicon box to avoid damage of the light

When the lamp power supply is connected in series, the maximum current of the cable should not exceed 20A

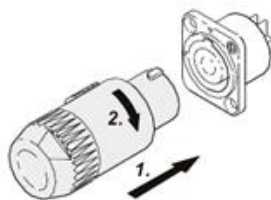


The interior of the luminaire has a switching power supply with PFC, and the power supply voltage is AC100V-240V 50/60Hz

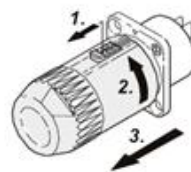
FUSE 保險 3A 5×20

POWER CONNECTION

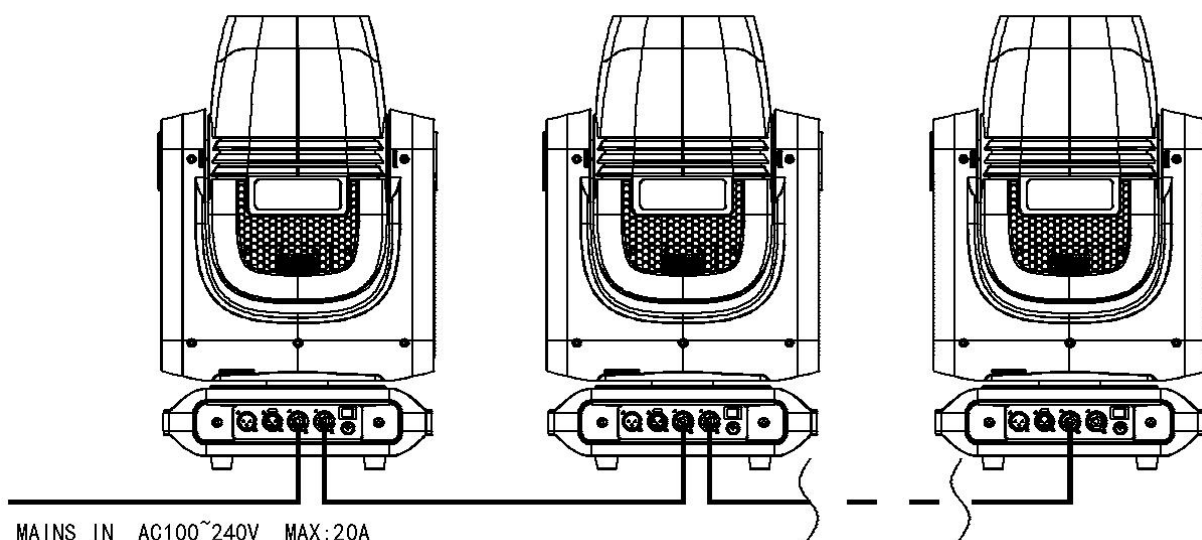
One end of the power cord has been fitted with a plug that matches the power interface of the lamp. The other end should be fitted with a suitable power plug with a grounded three-pin plug. The installation instructions must follow the manufacturer's instructions. The following table gives some suggestions for pin pin connection. If you are not sure or in doubt, please consult qualified electricians.



连接电源线

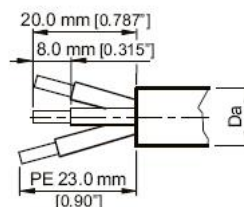
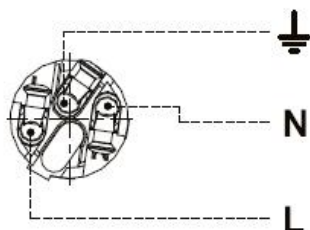
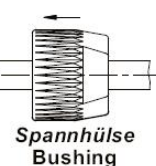
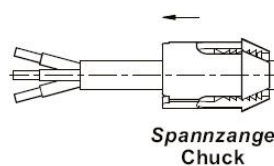
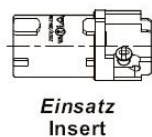
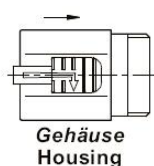


拆卸电源线



When the power cord is shred, the outer skin of the wire is broken, or the length of the protective sheath is too short, it should be replaced.

POWER CABLES REPLACEMENT

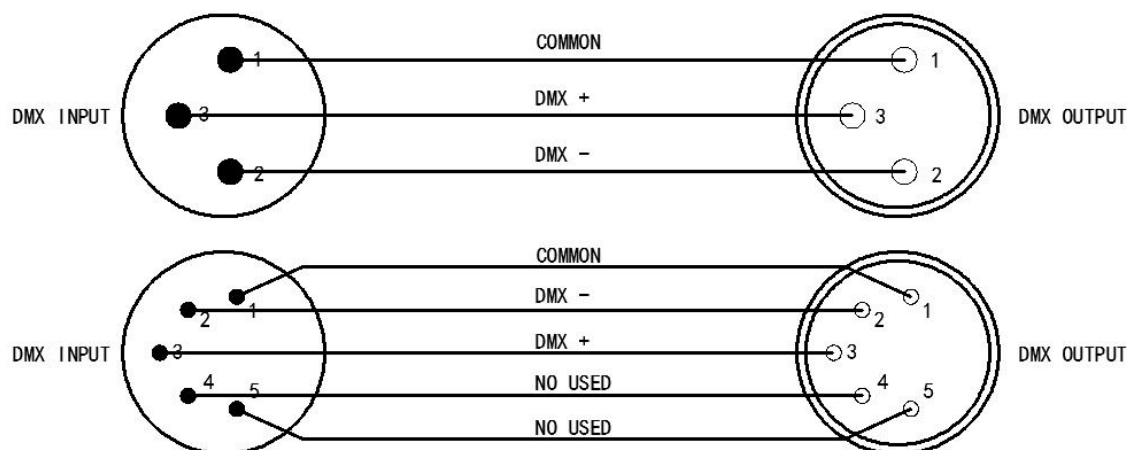


Wire color	插头	标示
brown	Fire	L
Blue color	Zero	N
Yellow / Green	Ground	⏏

1. remove the original power cord plug.
2. cut a cable with a length of 1.5 meters and a size of 3*1.5 square
3. peel the cable according to the size in the picture above, and pass through the plug cover and fastener.
4. press the core in the right position on the compression plug L - brown N - Blue - Yellow / green.
5. assemble the plug and tighten the end cover.
6. The other end of the power line is connected with a suitable three pin plug with grounding.

Signal connection

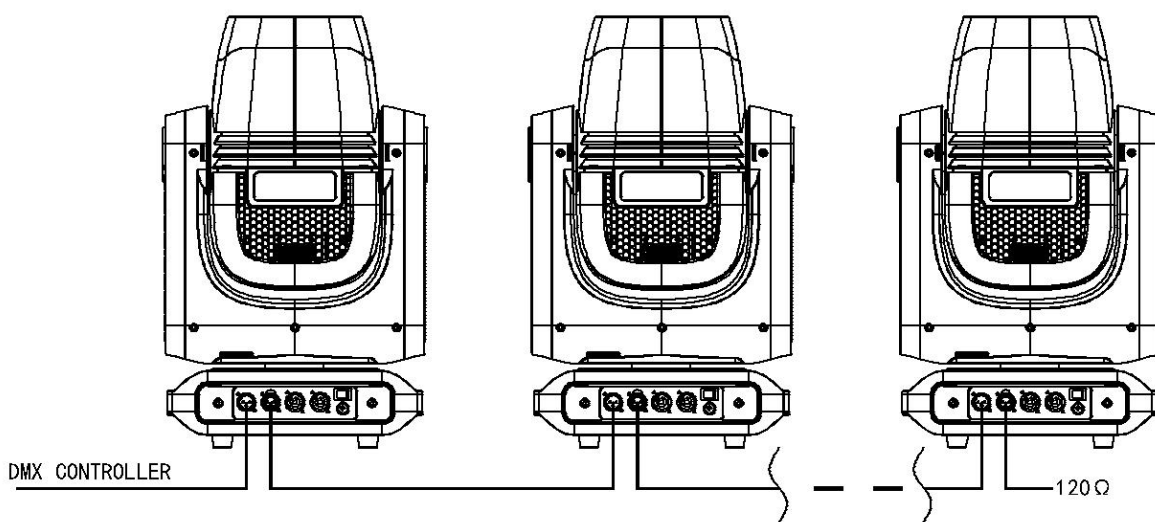
The light input and output of DMX signal through XLR cannon are defined as follows:



When the 3 core and 5 core plug and socket are switched, the 5 core pin 4/ pin 5 is not used.

Data

Connection



1. Connect a DMX signal line from the controller to the luminaire signal input port.
2. connects a DMX signal line from the luminaire signal output port to the next lamp.
luminaire DMX signal line can only be connected in series. If parallel connection is needed, use signal distribute.

3. A terminal resistor is connected between the 2 feet and the 3 feet of the last luminaire
4. signal output terminal.

DMX CHANNEL

	Function	Value	Effect
1	Color wheel	000–004	Open
		005 –009	Open+Color1
		010 – 014	Color1
		015 – 019	Color1+Color2
		020 – 024	Color2
		025 – 029	Color2+Color3
		030 – 034	Color3
		035 – 039	Color3+Color4
		040 – 044	Color4
		045 – 049	Color4+Color5
		050 – 054	Color5
		055 – 059	Color5+Color6
		060 – 064	Color6
		065 – 069	Color6+Color7
		070 – 074	Color7
		075 – 079	Color7+Color8
		080 – 084	Color8
		085 – 089	Color8+Color9

		090 – 094	Color9
		095 – 099	Color9+Color10
		100 –104	Color10
		105 –109	Color10+Color11
		110 –114	Color11
		115 –119	Color11+Color12
		120 –124	Color12
		125 –129	Color12+Color13
		130 –134	Color13
		135 –139	Color13+Color14
		140–144	Color14
		145–149	Color14+Open
		150 –200	Revert Flow (From fast to slow)
		201 – 255	Flow (From slow to fast)
2	Dimmer	000–255	From dark to bright
3	Strobe	000–007	Strobe off → (controlled by dimmer
		008–075	channel)
		077–145	StrobeFrom slow to fast
		146–215	Pulse StrobeFrom slow to fast
		216–255	RandomStrobeFrom slow to fast
			Strobeoff → (ontrolled by dimmer
			channel)

4	Gobo wheel	000 – 004	Fixed gobo1
		005 – 009	Fixed gobo2
		010 – 014	Fixed gobo3
		015 – 019	Fixed gobo4
		020 – 024	Fixed gobo5
		025 – 029	Fixed gobo6
		030 – 034	Fixed gobo7
		035 – 039	Fixed gobo8
		040 – 044	Fixed gobo9
		045 – 049	Fixed gobo10
		050 – 054	Fixed gobo11
		055 – 059	Fixed gobo12
		060 – 064	Fixed gobo13
		065 – 069	Fixed gobo14
		070 – 074	Fixed gobo15
		075 – 079	Fixed gobo16
		080 – 084	Fixed gobo17
		085 – 089	Fixed gobo18
		090 – 094	Fixed gobo1Shake (From slow to fast)
		095 – 099	Fixed gobo2Shake (From slow to fast)
		100 – 104	Fixed gobo3Shake (From slow to fast)
		105 – 109	Fixed gobo4Shake (From slow to fast)

		110 – 114	Fixed gobo5Shake (From slow to fast)
		115 – 119	Fixed gobo6Shake (From slow to fast)
		120 – 124	Fixed gobo7Shake (From slow to fast)
		125 – 129	Fixed gobo8Shake (From slow to fast)
		130 – 134	Fixed gobo9Shake (From slow to fast)
		135 – 139	Fixed gobo10Shake (From slow to fast)
		130 – 144	Fixed gobo11Shake (From slow to fast)
		135 – 149	Fixed gobo12Shake (From slow to fast)
		130 – 154	Fixed gobo13Shake (From slow to fast)
		135 – 159	Fixed gobo14Shake (From slow to fast)
		130 – 164	Fixed gobo15Shake (From slow to fast)
		135 – 169	Fixed gobo16Shake (From slow to fast)
		130 – 174	Fixed gobo17Shake (From slow to fast)
		135 – 179	Fixed gobo18Shake (From slow to fast)
		180 – 217	正向流水 (From fast to slow)
		218– 255	Revert Flow (From slow to fast)
5	Prism1	000–127	Prism1 in
		128–255	Prism1 out
6	PrismRotation	000–127	Prism1 angle adjustment
		128–191	Revert Rotation (From fast to slow)
		192–255	Rotation (From slow to fast)
7	Prism2	000–127	Prism2 In

		128–255	Prism2 ou t
8	Prism2Rotat ion	000–127 128–191 192–255	Prism2 angle adjustment Revert Rotation (From fast to slow) Rotation (From slow to fast)
9	Focus	000–255	Gobo clear from far to near
10	Pan	000–255	540 degree scan
11	Pan Finetune	000–255	1.2degree finetune
12	Tilt	000–255	270 degree scan
13	Tilt Finetune	000–255	1.2 degree finetune
14	Pan&Tilt	000–255	Speed From fast to slow
15	Frot&rainbo w wheel	000–127 128–191 192–255	Empty Front in Rainbow effect in
16	Reset	000–025 026–076 077–127 127–255	Empty Small motors reset Pan&tilt motor reset All motor reset
17	Led RingDimmer	000–255	All Led RingDimmer
18	Led RingStrobe	000–003 004–255	Shutter open → (controlled through Channel 17)

			Led Ring Strobe
19	Led Ring Red	000–255	From dark to bright
20	Led Ring Green	000–255	From dark to bright
21	Led Ring Blue	000–255	From dark to bright
22	Led Ring Color selection	000–255	Color change
23	Led Ring Effect	000–031 000–255	Empty Led Ring Auto
24	Led Ring Speed	000–255	From slow to fast

Maintenance and cleanliness

The lights need daily cleaning. The time depends on the factors affecting the use cycle and cleaning cycle as follows:

- Use smoke machine, fog machine.
- High speed wind speed (e.g. inlet and outlet)
- Dust (such as stage effects, building structures and occasions where natural outdoor environments need to be simulated).

If there is one or more factors, check whether the lamps need to be cleaned after 100 hours of operation and periodically re-examine them.

All repairs not mentioned herein should be consulted by technicians.



Warning:

Before opening the lamp housing, disconnect the AC power supply and allow the luminaire to cool completely.

Be careful when cleaning optical components and operate in a clean and bright place. The surface of optical coating is fragile and easy to erase. Do not use solvents that will damage plastic or colouring.

- To maintain proper cooling, it is necessary to periodically remove dust from fans and vents.

Clean optical components

1. . cut off the power and cool the lamp completely. Open the lamp housing.
2. use air compressor to spray dust.
3. wipe the stubborn stains with cotton paper coated with glass cleaner or pure water. But you can't scratch the surface. You should rub it gently.
4. remove soot from alcohol cotton cloth. It can also use glass cleaner, but use pure water to clean up the residue. Slowly clean from inside to outside.
5. blow dry with clean and soft cloth or air compressor.
Clean the fan and vent.

Use soft brush, cotton cloth, vacuum cleaner or air compressor to remove dust from fans