Devis technique éclairage Salle Kingsey

- 1 Console éclairage Martin M-One (Software Onyx 4.2.1057)

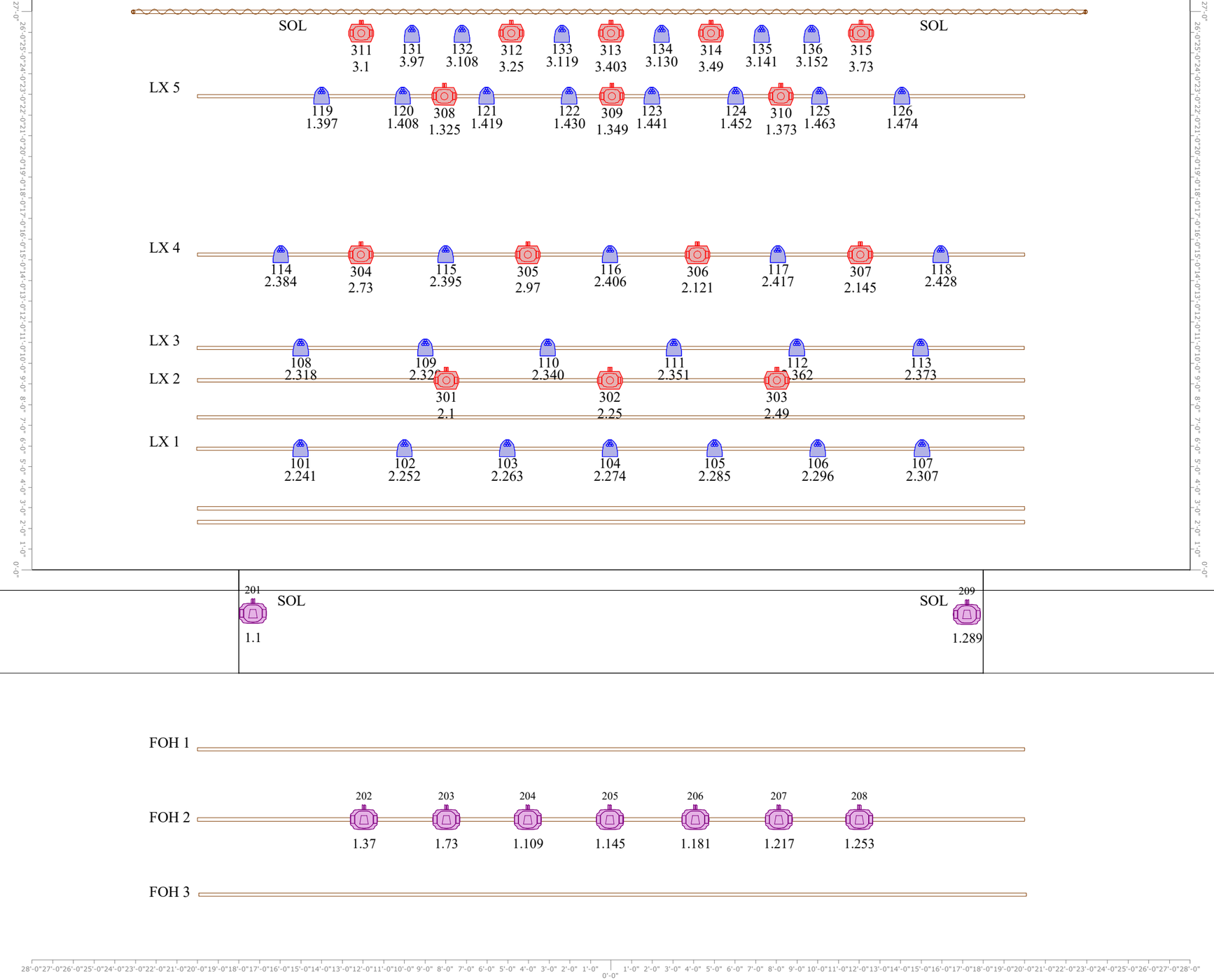
- 32 Pars LED Zoom RGBWA-UV (voir manuel pour description
  Distribué de façon suivante
  26 accrocher
  6 au sol

- 15 Fixtures moving Spot (voir manuel pour description)
  Distribué de façon suivante
  10 accrocher
  5 au sol

- 9 Fixture moving PROY Spot (voir manuel pour description)
  Distribué de façon suivante
  7 au FOH
  2 au sol sur scène

- 2 Machines à fumer de type bruine

NOTE : Le plan d'éclairage est fixe et ne peut être bouger



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SALLE KINGSEY
THÉÂTRE DES GRANDS CHÊNES

SALLE KINGSEY

DIR. TECHNIQUE: YVON MATHIEU

CONTACT: 418-333-1112

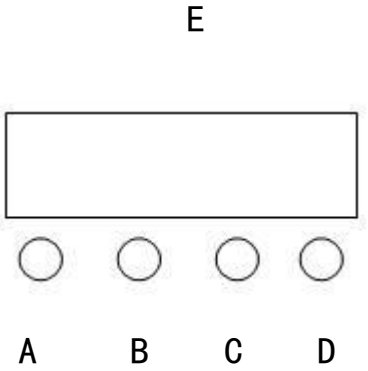
VERSION / UPDATE: REVISION: 03

Legend			
Symbol	Name		Count
	18pcs 6in1 LED Zoom Par Light		32
	500W BSW Moving Head		15
	700W LED Frame Moving Head		9

CONCEPTION PAR:
PIERRE ROY

User manual of
32bit_6 color constant current focusing

1.Graphical section：



A．Function Key
B． Plus Key
C． Minus Key
D．Confirm Key
E．Display window

2. Operation instructions: Press function key A to cycle through 14 different functional effects. The first two digits of the digital tube represent the current function (refer to the function table). The last two digits represent the address code or speed, mode, and parameters of the function. Press B or C to modify its parameter value. Press D key to confirm.

3. Digital display window function comparison table:（All functions are selected and then press D key to confirm and save.）

1	d001	7 channel B.C key plus or minus address code value（001-511）
2	d.001	11 channel B.C key plus or minus address code value（001-511）
3	CC01	Jump function B.C key plus or minus address code value（01-99）
4	CP01	Gradient function B.C key plus or minus address code value (01-99)
5	dE01	Pulse change function B.C key plus or minus address code value (01-99)
6	dENo	Jump + Gradient + Pulse function
7	bEbE	Voice control function Jump + Gradient + Pulse
8	r255	Manual dimming of red light
9	G255	Manual dimming of green light
10	b255	Manual dimming of blue light
11	W255	Manual dimming of white light
12	A255	Manual dimming of amber light
13	Y255	Manual dimming of purple light
14	H255	Zoom

4.DMX7 channel function introduction（.7CH）:

Channel	Function	Function control
CH1	RED brightness（Red）	0：off 1-255 dimming
CH2	GREEN brightness（Green）	0：off 1-255 dimming
CH3	BLUE brightness（Blue）	0：off 1-255 dimming
CH4	WHITE brightness（White）	0：off 1-255 dimming
CH5	Amber	0：off 1-255 dimming
CH6	Purple	0：off 1-255 dimming
CH7	Zoom	1-255 zoom

5.DMX11 Channel function introduction（.11CH）:

Channel	Function	Function control
CH1	RED brightness（Red）	0：off 1-255 dimming
CH2	GREEN brightness（Green）	0：off 1-255 dimming
CH3	BLUE brightness（Blue）	0：off 1-255 dimming
CH4	WHITE brightness（White）	0: off 1-255 dimming
CH5	Amber	0：off 1-255 dimming
CH6	Purple	0：off 1-255 dimming
CH7	Zoom	1-255 zoom
CH8	Total dimming	0：off 1-255 dimming
CH9	Strobe effect	0-9：off 10-255 From slow to fast
CH10	Self-propelled function	10-50 jump 51-100 Gradient 101-150 Pulse change 151-200 Jump + Gradient + Pulse 201-255 Voice Control
CH11	Function speed	0-255 From slow to fast

6. Features:

The operation is very simple, user-friendly design, dimming without flicker and jitter, etc. It can be adapted to occasions with strict lighting requirements such as photography, photography, TV stations, etc.

380W BEAM MOVE HEAD LIGHT

USER MANUAL

（TFT DISPLAY & TOUCH）

Please read over this manual before operation the light

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3.2.2 GOBO Detail ..... 错误！未定义书签。

Chapter 1 Installation and attention

1.1 Maintenance

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Intermittently using will extend this item's service life.
- Please clear the fan ,fan net , and optical lens in order to keep good work state.
- Do not use the alcohol or any other organic solvent to wipe the shell.

1.2 Statement

The product has perfect performance and integrity packing. All users should be strictly complying with the warning and operating instructions as stated. Or we aren't in charge of any result by misusing. Any damage resulting by misuse is not within the Company's warranty. Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Note: All information is subject to change without prior notice.

1.3 Safety Precaution

- In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degress.
- Always mount this unit in safe and stable matter.
- Install or dismantle should operate by professional engineer.
- Using lamp，the change rate of power voltage should be within±10%，If the voltage is too high，it will shorten the light's life; If it's not enough, will influence the effect.
- Please restart it 20 minutes later after turning off light , until full-cooling. Frequent switching will reduce the life span of lamps and bulbs; intermittent using will improve the life of bulbs and lamps.
- In order to make sure the product is used well, please read the Manual carefully.

1.4 Product Instruction

- lamp: osram slrlus hrl371w (life:2200 hours Color temperature: 8000K)
- Channel mode:20 DMX512 Channel
- Pan scan：540°(16bit) Electric correction
- Tilt scan：270° (16bit) Electric correction
- Amazing dot matix, four tact switch, 180° turning show
- Color wheel: one color wheel, 14 kinds of color chips in one color wheel
- Gobo: 19 gobos
- Effect Wheel: Rotation eight prism, effect move , frost
- 0-100% mechanical dimming, mechanical dimming and free dimming available.
- strobe macro control available.
- Lens optical system achanical fouce .beam angle 0～4°

STAGE PROFESSIONAL SHOW LIGHTING

500W LED BSW MOVING HEAD LIGHT

(RDM, Color Display, Touch Operation)

PLEASE READ THIS CAREFULLY BEFORE USE

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Chapter 1 Precautions and Installation

1. Maintenance

- This light should be kept dry to avoid working in a humid environment.
- Intermittent use will effectively extend the life of this light.
- In order to obtain good ventilation and lighting effects, pay attention to the frequent cleaning of fans, fan nets and lenses.
- Do not use alcohol and other organic solvents to test the light shell to avoid damage.

2. Statement

When this product is out of the factory, its performance is intact and its packaging is complete. All users should strictly abide by the warnings and operating instructions stated above. Any damage caused by misuse is not within the company's guarantee, and the failure and problems caused by neglecting the operation manual are not the responsibility of the dealer. This manual is subject to technical changes without prior notice.

3. Product precautions

- In order to ensure the service life of the product, this product should not be placed in a wet or leaky place, let alone work in an environment with a temperature of more than 60 degrees.
- Do not place this product in a place that is easy to loose or vibrate.
- In order to avoid the danger of electric shock, the repair of this product is requested to help professionals repair it.
- When the bulb is used, the change of the power supply voltage should not exceed ±10%. If the voltage is too high, the life of the bulb will be shortened. If the voltage is too low, the light color of the bulb will be affected.
- After the power is cut off, it will take 20 minutes to use the lamp to be fully cooled before it can be powered on again.
- In order to ensure the normal use of this product, please read this instruction carefully. Signal line connection (DMX) uses RS-485 cable that meets the specifications: shielded, 120ohm characteristic impedance, 22-24 AWG, low capacitance. Do not use microphone cables or cables with different characteristics. The connection of the terminal must use a 3-pin XLR male/female connector. (Minimum 1/4 W).

Important note: The wires should not be in contact with each other or with the metal shell.

4. Light installation

Lights can be placed horizontally and upside down. Because the lamps are too heavy, it is not recommended to hang them sideways. You must pay attention to the installation method when hanging upside down. Before positioning the lamp, it is necessary to ensure the stability of the installation site.

When installing the reverse hanging, it is necessary to ensure that the lamp does not fall on the support frame. It is necessary to use a safety rope through the support frame and the lamp handle to assist in hanging to ensure safety. Prevent lamps from falling and sliding.

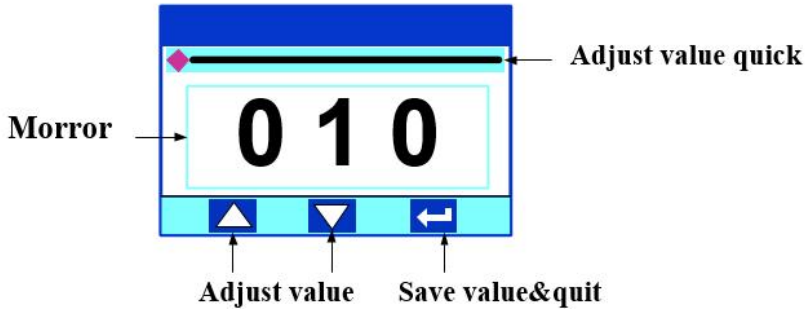
When the lamp is installed and debugged, pedestrians are not allowed to pass below, and the safety rope is regularly checked for wear and whether the hook screws are loose. If the lamp falls due to the unstable installation, our company will not bear any responsibility for all the consequences caused by the falling of the lamp.

Chapter 2 Panel Operations

1. Overview

The schematic diagram of the lamp panel is shown in 1. The above title shows the name of the lamp, and the following is the status bar, which shows the signal of the current lamp, the status of the light bulb, fault (when the fault information is not viewed, "ERR is displayed, otherwise "NOR" is displayed), etc.

This lamp supports the DMX/RDM protocol. When the lamp is searched by the RDM host, the three letters "RDM" will appear on the panel, indicating that the lamp is normally enumerated. The display and operation are similar to the "Android operating system", which can be operated by clicking on the corresponding item with a fingertip or blunt object. Note: You can't click on the display with sharp or sharp objects to prevent damage.



P1 Display panel diagram

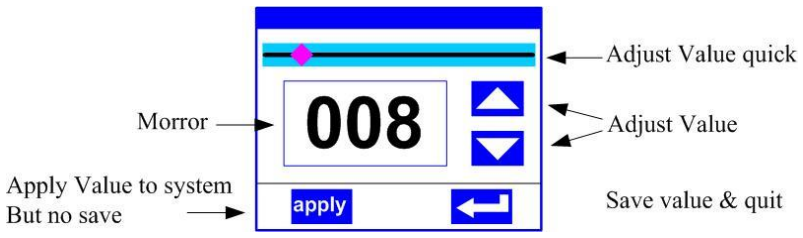
2. Operation

1) Use visual touch or encoder to operate luminaire.

- The left area is the TFT display area and touch area. Click the panel content with your finger or blunt hardware to complete the parameter setting or viewing status and other operations.
- The right area is the auxiliary input. If you do not use the touch function that comes with TFT, you can use the auxiliary input to select the items that need to be set or viewed to complete the operation.

2) Enter the parameter

When the selected parameter item needs to enter a value, the window shown in Figure 2 will open:

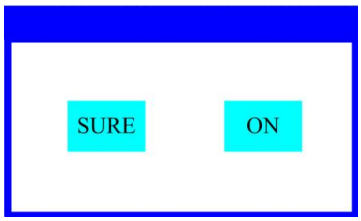


P2 Numerical setting page

- Set the value: You can directly pull the sliding bar to quickly set the required value, or click the "up" or "down" button on the right to accurately set the required value or rotate the "rotation encoder" on the right to set;
- Application value: When the data is set through the "up" or "down" button, and then the "apply" application button in the lower left corner is pressed, the value is immediately sent to the lamp, but the value is not saved;Set Boolean parameter.
- Save the value: At any time, click the "OK" button in the lower right corner to save the current value to the internal storage, and apply the saved value to the lamp next time it is turned on.

3) Set Boolean parameter

- When the set parameter is a Boolean value (such as ON or OFF), you can directly click the corresponding item to switch the parameter value, and the parameter will be saved to the internal storage after modification. Press the parameter option on the right, and the corresponding option will turn gray. When you let go, the corresponding parameters will be changed and saved. If the parameter option is not the parameter you want to change, you can move your finger to the other part of the screen, and the corresponding parameter will not change.
- The determination of important Boolean parameters will be set through the confirmation window, as shown in Picture 3 below:



P3 Confirm input window

4) Sub-page (parameters)

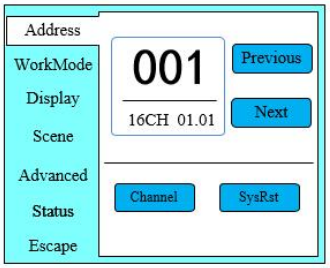


Figure 6-1 Address setting

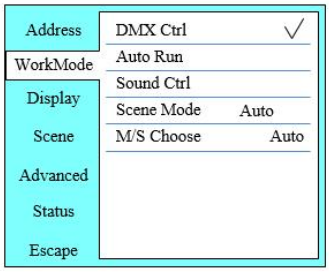


Figure 6-2 Run Settings

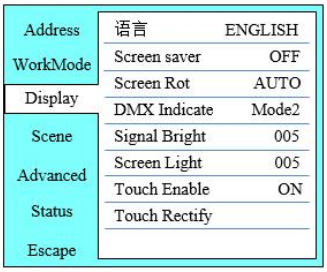


Figure 6-3 Display Settings

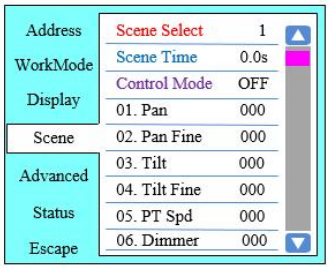


Figure 6-4 Scene Settings

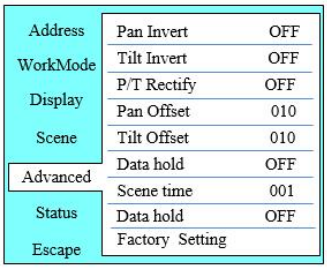


Figure 6-5 Advanced setting

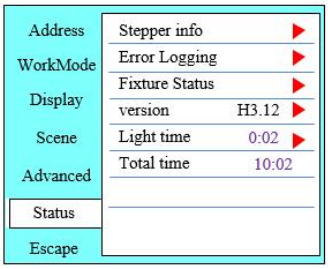


Figure 6-6 Status Settings

P4 Function page

3. Function operation and Parameter Setting

- Enter the setting interface, as shown in P4:
- In the main interface, you can enter the corresponding parameter setting interface by selecting six buttons.
- In the parameter setting interface, you can press the blue option on the left to quickly switch to another setting interface.

1) Set DMX address code

Through the page shown in **Picture 6-1**, you can set the DMX address, channel mode, etc. of the lamp. The menu setting of the lamp optimizes the setting of the address. Several setting address code operations are as follows:

- Select "preme one" or "the next one", and the lamp will automatically calculate the address code of the next one or the previous one according to the current address code and channel data, which can be set quickly;
- Click on the address code value to enter the number Value editing window, where you can have any valid address code, the lamp automatically obtains the current number of channels of the lamp, and automatically filters the unusable address code (512-the current number of channels).
- The lamp supports the RDM protocol, and the lamp address code can be set remotely through RDM.

Two buttons are provided:

- Channel mode: different channel modes can be selected in circulation;
- Lamp reset: reset all motors.

2) Set the working mode

Through the page shown in P4-2, you can set the operation mode of the lamp and control the lamp gun. The lamp supports four operating modes (DMX mode, self-propelled mode, voice control mode and scene mode). Please refer to the previous section for detailed parameter

numerical settings. The specific parameter description is shown in the following table:

Operating Mode

DMX Mode	Console mode, receive DMX signal, RDM signal	
Self-propelled Mode	The lamp runs automatically according to the built-in program	
Voice-control Mode	When the lamp detects a strong sound, the lamp will automatically run a scene according to the built-in program, otherwise the last scene will be maintained.	
Scene Mode 01	Run in the way of a set scene, supporting custom editing of up to 10 scenes	
	1~10	Output the specified scene
	automatic	Automatically output the scene in the order of the set scene time (non-0), and the scene with time 0 is automatically skipped and ignored.
Master-slave selection	It takes effect when it is not in DMX mode. Select the mode of data output, and the lamp automatically detects the DMX state and automatically switches the output to prevent data conflicts.	
	Master	The lamp runs as built-in. If DMX has no signal, the data will be output (synchronized), otherwise the data will not be output.
	Slave	Lamps run as built-in without output data (not synchronized with other lamps)
	automatic	If there is no DMX signal, the lamp runs according to the built-in, otherwise, the lamp works according to the DMX signal.
Led switch	(Light source) pop up the confirmation dialog box, select "SURE" to confirm the current operation, turn on or off the light Led, and the switching time interval is limited to 30 seconds.	
	Turn off	The current led output is turned off
	Turn on	The current led output is turned on

The scene mode is suitable for a single or a small number of lamps. You only need to output a fixed scene, or you need to run a simple program. You can edit it on the scene page without connecting to the console.

If the light source is a bulb, please wait for 10 minutes before turning on the bulb after turning it off.

3) Panel display Settings

The lamp supports Chinese and English bilingual, upside-down display, etc. Enter the corresponding parameter settings as shown in **P4-1**. The specific menu content is shown in the following table:

Display setting

Languages	Set Languages	
	English	English display
	Chinese	Chinese display
Screen saver	After setting the screen without operation within 30 seconds, the display content or	

	mode of the screen	
	Turn off	Keep the last operation page，brighten the screen
	Mode 1	Screen off
	Mode 2	Black screen, display the address code of the current lamp in the lower left corner.
	Mode 3	Display trademark information, address code and run mode
Screen rotation	Set the screen display direction	
	Turn off	Non-inverting display
	Turn on	Inverting display
	automatic	Automatic detection of lamp hanging direction, automatic switch display direction
DMX indication	Set the indication of the DMX signal indicator light	
	Mode 1	When there is a signal, it is on, and when there is no signal, it is off.
	Mode 2	When there is a signal, it is turned off, and when there is no signal, it is on.
	Mode 3	Flash when there is a signal, and turn off when there is no signal.
Signal indicates brightness	Set the brightness of the signal indicator light	
	1~10	10 Levels
Screen backlight	Set the brightness of the screen backlight after 10 seconds of no operation, and it will be fully lit during operation.	
	1~10	10 Levels
Touch screen switch	Choose whether to disable the touch screen. When the screen touch is accidentally damaged, you can disable the touch function and use the auxiliary input to set the lamp.	
Touch correction	When the screen touch is inaccurate, you can enter the correction page to correct the screen.	

Lamps that support touch operation. If there is a bad touch phenomenon, you can enter the correction page to recalibrate the touch accuracy of the touch screen. Under normal circumstances, please do not enter this page. If the touch is damaged, please choose to disable the touch function.

4) Scene Mode

Enter the page shown in **P4-2**, and the lamp enters the scene editing mode. Under this page, the lamp does not receive DMX console data, and the edited data is immediately reflected on the lamp.

The content of the page depends on the currently selected channel, and the content and order of the displayed channel are consistent with the lamp channel table. Through this page, 10 scenes can be edited, as shown in the following table:

Scene mode

Scene select	Select the current operation scenario	
	1~10	10 scene Settings
Scene time	Set the retention time of the current scene when it is automatic, in 0.1 seconds.	
	0	The current scene does not

		participate in the automatic scene output.
	1-255	0..1s to 25.5s
1. Pan	0-255	Set the data of each channel, and the display content and order correspond to the channel table of the lamp one by one.
……	0-255	
……	0-255	
N. Function	0-255	

If the reset channel in the scene edits the effective reset data, the lamp will reset, but after the reset, the value of the corresponding reset channel will be automatically cleared to prevent multiple consecutive resets.

Check this page, that is, you can get the current channel table order of the lamps. Please refer to the detailed channel description for the specific channel data.

5) Set working parameters

Enter the page shown in Figure 4-3 to adjust the on-site parameters of the lamp to facilitate the on-site installation of the lamp, etc.:

Advanced settings

Pan reverse	Set the rotation direction of the Pan	
	off	non-reverse
	on	reverse
Tilt reverse	Set the rotation direction of the Tilt	
	off	non-reverse
	on	reverse
Optocoupler correction	Set whether the lamp detects XY out of step and corrects it.	
	off	Do not correct position after out of step
	on	Automatically correct the position after out of step
Pan offset	Set the position of the zero point of the Pan of the lamp	
	4-150	
Tilt offset	Set the position of the zero point of the Tilt of the lamp	
	4-48	
Data retention	When the lamp is set without DMX signal, the output state of the lamp	
	off	There is no signal, so the motor and the light source return to the position and state when the reset is completed.
	on	No signal, keep the last frame of DMX data output
Turn on the light mode	Set the way to turn on the light bulb for the first time after being powered on.	
	Power on and turn on the bubble	When the power is on, turn on the light bulb first, and reset the lamp after 30 seconds.
	Turn on the light after reset.	After 3 seconds of power on, reset the lamp, and turn on the light after the reset.
	Manually turn on the light	After the reset is completed, turn on the light manually through the menu or console.

Factory settings.	The confirmation box pops up. After selecting "SURE", the lamp parameters return to the factory settings.

When selecting the on-lighting foaming mode, the lamp will wait for 30 seconds for the light bulb to fully start, so that the internal voltage is stable enough, and then start the reset program. If the on-site power consumption capacity is stable, it is recommended to turn on the light bulb mode.

When the lamp cannot correct the position, please check whether the "optical coupling correction" is turned off first.

When the signal is unplugged, if the position of the lamp is not the expected output, please check the "data retention" setting first.

When setting the XY -axis offset, after the setting is completed, please control XY -axis with the maximum stroke to check the setting. After checking the setting, X ,Tilt will not hit the positioning bar or shell.

6) View the current status

Entering the page shown in **P4-4**, you can check the information and real-time status of the lamps to know the use status of the lamps. If the lamps need after-sales service, please provide the status information displayed on this page as a basis for judgment, as shown in the following table:

Status information

Motor information	Display the information status of all motors and signals in the lamp.	
	Hall	It is not displayed, indicating that the motor has not been corrected by Hall, 0 means that the motor has left the correction position, and 1 indicates that the motor is at the correction position.
	Condition	Show the completion status of motor reset
	Pan	Display the real-time position value of Pan optocoupler feedback
	Tilt	Display the real-time position value of Tilt optocoupler feedback
	Optocoupler	Display the level state of the two signals of Pan and Tilt optical coupling, binary
Fault/status record	Display the last 8 fault records of lamp reset and operation	
	Fault data	The total number of faults detected after power on
	12：:03	The power-up time at the time of failure is in minutes.
	Hall failure	The motor did not detect a valid Hall signal when the motor is reset.
	Hall short-circuit	The Hall signal of the motor is always valid when the motor is reset.
	Optocoupler failure	No effective optocoupler signal was detected when the corresponding motor was reset.
	Out of step	The motor is out of step during operation.
	Impact rod	Corresponding to the positioning rod when the motor is reset
	Bulb failure	The light bulb accidentally defocts.
	Sensor failure	The temperature sensor signal is abnormal,

	Fan failure	The main fan works improperly
Luminaire condition	Display the key status data of the current lamp for reference.	
	communication	0~100%, the communication quality of the internal data link of the lamp
	Error count	Total number of error frames detected after power-on
	Light source temperature	Display the temperature of the current light source, "---" means no detection
	Display board temperature	Display the temperature of the current display board or the ambient temperature nearby.
	Sensor 1 temperature	Displays the current temperature of the mainboard or the ambient temperature at the installation position of the mainboard
Version information	Display the information and version of the current lamp, an important reference for after-sales maintenance	
	Equipment	The name of the lamp is the same as the equipment information of RDM.
	Model	The model of the lamp is the same as the model information of RDM
	Display board	Firmware version and serial number of the display board
	Mainboard 1	Firmware version and serial number of motherboard 1
Light source time	Record the total cumulative time and unit minutes of the light source turned on, and the user uses manual removal as a reference for the regular maintenance of the light source.	
Luminaire time	Record the total cumulative time of opening the lamp, unit minute, and cannot be cleared.	

Chapter 3 Technical Parameters and Channel description

1. **Technical specifications**

- Input voltage: AC 110V-240V, 50-60Hz.
- Total power: 650W.
- Light source: 500W LED module lamp bead.
- Color temperature: 7800K.
- Color wheel: 8 colors + white light + CTO linear adjustment, bidirectional rotating rainbow effect and semi-color effect.
- Color system: Individual CMY infinite color mixing system.
- Static gobo wheel: 12 fixed gobos + white circle.
- Rotating gobo wheel: 7 rotating gobos + white circle.
- Zoom range: 4°- 40°, linear zoom and focus.
- Prism: 8-facet circular prism and 6-facet linear prism, rotating in both directions at variable speed, and prisms can be superimposed into a composite effect.
- Frost: built-in frost filter can generate soft wash effect, 0%~100% linear frost.
- Control channel: standard 20CH / 24CH.
- Control signal: Art-NET, DMX512, RDM, sound control, self-propelled, master-slave.

- System: Upgrade software for RDM control box.
- Heat dissipation: lamp bead copper tube heat dissipation, axial flow type fan in and out of two-way heat dissipation cooling.
- Display interface: 2.8-inch resistive color touch screen, with physical buttons, good pressing sensitivity.
- Features: 1. Nylon flame-retardant housing, self-extinguishing from fire. 2. Intelligent RDM mainboard remote device management, saving time and labor. 3. Magnetic levitation intelligent controllable-speed fan, better heat dissipation, and quieter. 4. Intelligent control temperature and speed. 5. Intelligent inverted display, always detect the lamp situation. 6. The color temperature in different places does not shake.
- Dimension: L370 * W280 * H660mm. Net weight: 23kg.
- Carton package dimension: L770 * W380 * H490mm. Gross weight: 25kg.

2. Channel Table

The channel of this lamp can be viewed in scene mode. The channel mode is set in the "Address Settings" page. The specific detailed data is shown in the following table:

CH1	CH2	Name	Numerical value	Description	
[CH1]	[CH1]	Dimming	0-255	0-100% Dimming	
[CH2]	[CH2]	Strobe			
			0-3	Turn off the light	
			4-103	From slow to fast pulse strobe	
			104-107	Switch	
			108-155	Gradually open the strobe from slow to fast	
			156-207	Gradually open the strobe from slow to fast	
			208-212	Switch	
			213-251	From slow to fast random strobe	
			252-255	Switch	
[CH3]	[CH3]	Pan	0-255	0-540 angle	
[CH4]	[CH4]	Tilt	0-255	0-270 angle	
[CH5]		XY Speed	0-255	from fast to slow	
[CH6]	[CH5]	Color Wheel			
			0-5	White	
			6-11	White+Color 1	
			12-17	Color 1	
			18-23	Color 1+Color 2	
			24-29	Color 2	
			30-35	Color 2+Color 3	
			36-41	Color 3	

			42-47	Color 3+Color 4	
			48-53	Color 4	
			54-59	Color 4+Color 5	
			60-65	Color 5	
			66-71	Color 5+Color 6	
			72-77	Color 6	
			78-83	Color 6+Color 7	
			84-89	Color 7	
			90-95	Color 7+Color 8	
			96-101	Color 8	
			102-107	Color 8+Color 9	
			108-181	From fast to slow forward running water	
			182-255	From slow to fast forward running water	
[CH7]	[CH6]	Cyan	0-255		
[CH8]	[CH7]	Magenta	0-255		
[CH9]	[CH8]	Yellow	0-255		
[CH10]	[CH9]	CTO	0-255		
[CH11]	[CH10]	Gobo Wheel			
			0-4	Gobo 1	
			5-9	Gobo 2	
			10-14	Gobo 3	
			15-19	Gobo 4	
			20-24	Gobo 5	
			25-29	Gobo 6	
			30-34	Gobo 7	
			35-39	Gobo 8	
			40-44	Gobo 9	
			45-49	Gobo 10	
			50-54	Gobo 11	
			55-59	Gobo 12	
			60-64	White	
			65-69	From slow to fast dither Gobo 2	
			70-74	From slow to fast dither Gobo 3	
			75-79	From slow to fast dither Gobo 4	
			80-84	From slow to fast dither Gobo 5	
			85-89	From slow to fast dither Gobo 6	

			90-94	From slow to fast dither Gobo 7	
			95-99	From slow to fast dither Gobo 8	
			100-104	From slow to fast dither Gobo 9	
			105-109	From slow to fast dither Gobo 10	
			110-114	From slow to fast dither Gobo 11	
			115-119	From slow to fast dither Gobo 12	
			120-127	White	
			128-190	Reverse flow from fast to slow	
			191-192	Stop	
			193-255	Reverse flow from slow to fast	
[CH12]	[CH11]	Rotating GW			
			0-19	White	
			20-39	Gobo 1	
			40-59	Gobo 2	
			60-79	Gobo 3	
			80-99	Gobo 4	
			100-119	Gobo 5	
			120-139	Gobo 6	
			140-159	Gobo 7	
			160-200	From fast to slow forward water	
			201-205	Stop	
			206-255	Flow backward from slow to fast	
[CH13]	[CH12]	GW rotation			
			0-127	0-360 Angle	
			128-190	Reverse flow from fast to slow	
			191-192	Stop	
			193-255	From slow to fast, positive flowing water	
[CH14]	[CH13]	Prism 1			
			0-127	none	
			128-255	Insert Prism 1	

[CH15]	[CH14]	Prism rotation			
			0-127	0-360 Angle	
			128-187	From fast to slow forward water	
			188-195	Stop	
			196-255	Flow backward from slow to fast	
[CH16]	[CH15]	Prism 2			
			0-127	none	
			128-255	Insert Prism 2	
[CH17]	[CH16]	Prism 2 rotation			
			0-127	0-360 Angle	
			128-187	From fast to slow forward water	
			188-195	Stop	
			196-255	Flow backward from slow to fast	
[CH18]	[CH17]	Zoom	0-255	From far to near	
[CH19]	[CH18]	Enlarge	0-255	From big to small	
[CH20]	[CH19]	Atomization			
			0-127	none	
			128-255	Atomization	
[CH21]		Effect	0-255		
[CH22]		Pan fine	0-255	0-2 Angle	
[CH23]		Tilt fine	0-255	0-1 Angle	
[CH24]	[CH20]	Reset/Function			
			0-209	no function	
			210-215	Reset the XY motor in 3 seconds	
			216-219	no function	
			220-235	Reset the effect motor after 3 seconds	
			236-239	no function	
			240-255	Reset the light after 3 seconds	

Chapter 4 Common Faults and Precautions

1. Common fault handling

The lamps contain microcomputer circuit boards, high-voltage power supplies and other professional components. For your safety and product life, non-professionals should not disassemble lamps and related accessories without authorization.

1) The light bulb is not on (except LED light source)

Possible reasons: If the light bulb is not completely cooled, or the life of the light bulb has reached its life, the treatment is as follows:

- Due to abnormal operation, the bulb has not been completely cooled. The lamp body should be cooled for more than 10 minutes to completely return to a normal state, and then start the power supply again;
- Check whether the light bulb has reached its service life and replace it with a new one;
- Check whether the light bulb and the lamplight line are leaking, falling off or in poor contact;
- Replace the new lamp.

2) Precautions for use

Possible reasons: If the light bulb is used for a long time or the light path is not clean, the treatment is as follows:

- Check whether the light bulb has reached its service life and replace it with a new one;
- Check whether the optical components or light bulbs are clean, and whether there is dust on the light bulbs and other optical devices. The light bulbs and components in the lamps need to be cleaned and maintained regularly.

3) The pattern projection is blurred.

- Check whether the value of the electronic focus channel is suitable for the current projection distance.

4) Lamps work intermittently

Possible reason: The internal line enters the protected state, and the treatment is as follows:

- Check whether the fan is running normally or dirty, causing the internal temperature of the lamp to rise;
- Check whether the internal temperature control switch is closed;
- Check whether the light bulb has reached its service life and replace it with a new one.

5) The lamp will not be controlled by the console after normal reset.

Possible reasons: signal line failure or abnormal setting of lamp parameters, the treatment is as follows:

- Check the starting address code and check the connection of the DMX signal line (whether the signal cable is intact and whether the connection is loose);

- Add signal amplifier, add 120 ohm terminal resistance;

6) The lamp cannot start.

Possible reason: The power line is not good, and the treatment is as follows:

- Check whether the insurance on the power input socket is fused and replace the insurance;
- Poor line contact caused by vibration of lamps in long-distance transportation
- Check the input power supply, computer board and other plug-in devices.

2. Precautions for use

- Check whether the local power supply meets the product's rated voltage requirements, and the leakage protector, overcurrent protector, etc. meet the load requirements;
- Do not use the power cord with damaged insulation layer, and do not connect the power cord to other wires;
- Lamps use strong wind refrigeration, which is easy to accumulate dust. It must be cleaned once a month, especially the heat dissipation air outlet. Otherwise, it will be blocked by dust accumulation, resulting in poor heat dissipation and abnormal lighting.

- When installing lamps, the fixing screws must be tightened, equipped with a safety cable, and checked regularly;
- When the lamp is installed and positioned, any point on the surface of the lamp and any easy-to-burn and explosive object should be kept at a minimum distance of 10 meters and 2.5 meters from the irradiant. Please do not install the lamp directly on the surface of the combustible material;
- It is recommended that the continuous working time of the lamp should not exceed 10 hours, and the interval between continuous starting lamps should not be less than 10 minutes, otherwise it will not be triggered normally due to the overheating protection of the light bulb;
- The closing time of the switch valve should not exceed 5 minutes. If you need to close the light for a long time, you should use the console (light gun control channel) to turn off the light gun;
- In order to ensure that multiple lamps and lanterns better comply with the scene effect, the lamps and lanterns should not always be in the current scene, that is, to start the next scene action. It is best not to exceed 3 minutes in this state to ensure that multiple lamps and lanterns can run synchronously;
- During use, if there is any abnormality in the lamp, the lamp should be stopped in time to prevent other faults.

3. Precautions for using RDM

RDM is an extended version of the DMX512-A protocol, which is a remote device management protocol. The traditional DMX512 protocol communication is one-way communication. The protocol is based on RS-485 bus, and RS-485 is a time-sharing multi-point, The half-double protocol allows only one port to output to the host at the same time, so the following points should be paid attention to when using RDM:

- Use the console or host device that supports the RDM protocol host;
- To use a two-way signal amplifier, the traditional one-way signal amplifier is not applicable to the RDM protocol, because the RMD protocol needs to feedback data, and the use of a one-way amplifier will block the returned data, resulting in the failure to be searched for lamps;
- The lamp must be set to DMX mode to ensure that there is only one host on the signal line;
- A 120ohm impedance matching resistor must be inserted between terminals 2 and 3 of the terminal plug. When the signal line is relatively long, the differential signal will be used to be more stable, which is conducive to the quality of communication;
- When the lamp is controlled by DMX, but cannot RDM search for the lamp, check the signal amplifier first, and then check whether the 2nd and 3rd lines of the signal line have bad contact.

Warranty Card

This product is tested in good operation before delivery.We will provide 1 year warranty under the condition that user has operated the light normally and lifetime service(bulb is not in the range of warranty). We won't provide warranty if the damage is caused by artificial or force majeure event.Extra spare parts are charged.Cost of fittings should be charged by user if product need maintenance after 1 year.Please cut this warranty card and shipped it along with the product to our factory when applying for warranty.
Product： Purchasing date： Code of invoice：
Warranty date: From To
User’s name： Add：
Company： Tel：

700W LED Spot Cutting Moving Head Light

User Manuel

Thanks for choosing our goods please read this manual carefully before your operating

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First of all thank you for buy our products. Please read this user manual completely and carefully, and keep it well for reference when needed. This use manual includes important information about the installation and using of the moving head. Please hew to the relevant specification strictly when install and use this product.

1. Open-package Inspection

After receiving the product, please be careful to take and put. Check if the product has been damaged during the transportation, and check the following parts:

The body----------1pc User manual ---------- -1pc

Power cable ----------1pc signal cable----------1pc

2. Product Introduction

This Moving head light is made of new high strength heat-resistant engineering plastic and cast aluminum shell, with beautiful design and smooth outlook, Is the representative of the modern lights. This product strictly according to CE standard design and production, fully comply with international standard DMX 512 protocol. Can be single control, also can use integrated with each other. It is suitable for large-scale theatrical performances, theaters, studio and disco and other places.

3. Attentions

To ensure the service life of the product, please keep it away from water and do not work in the environment which the temperature is above sixty degrees.

Don’t put the product on the place easy to lose or easy vibration.

In order to avoid electric shock, this product must maintenance by professional person.

When using, the power supply voltage change should not be more than 10%, the voltage is too high, will shorten the life of the light bulb, the voltage is too low, then affects the light color.

When power off, the product needs 20 minutes to sufficient cooling before use again.

To ensure the normal use, please read this user manual carefully.

4. Technical Parameter

4.1 Setting

Voltage: AC 110-240V, 50/60Hz

Input power: 600W

Fuse: 5A

Source specification: High power 600W white LED

Average life: 2000H (bulb and reflector complete package, light efficiency and long service life)

Ballast: Electronic ballast

Color temperature: 6500K

4. 2 Product specification

1. Signal Control: DMX512 international standard signal
2. DMX Channel: 36 Channels
3. CRI：≥74 / ≥90
4. Pan movement: 540°/630°optional (16 bit)
5. Tilt movement: 270°(16 bit)
6. Advanced moving system: fast, stable and quiet, auto X-Y repositioning
7. CTO color temperature linear change
8. 1 Color wheel:6 dichroic filters +open, half color; Indexable ,rainbow effect
9. 1 Rotating gobo wheel: 6 interchangeable, rotating, indexable, gobos+open, gobo shaking
10. 1 Static gobo wheel: 8 indexable, gobos+open, gobo shaking
11. Animation wheel: can make special dynamic effect like flame or water effect,etc.
12. 2 Operational modes: DMX-512, Master/Slave
13. Prism: 3 facets rotating prism with 6-row prism; can rotate with both directions, prisms overlay and location effect
14. Focus: motorized focus
15. Iris: motorized linear change from 5%-100%
16. Shutter: variable from 1-25flashes or random strobe
17. Dimming: 0-100% linear dimming
18. 3 Frost level: heavy, medium and light
19. Zoom: 4.5°- 50°linear zoom
20. Cutting wheel: With 4 cutting discs to organize a cutting spot system, cutting system can rotate 90degree.Precise control of cutting disc
21. Can create triangle, diamond and rectangle light spots in any direction
22. Minimum angle with 5M distance; Spot diameter: 43cm
23. Maximum angle with 5M distance; Spot diameter: 466cm
24. DISPLAY:Advanced and convenient full-color LCD touch button screen
25. With RDM
26. Dimension: 510L*345W*800H(mm)
27. Net Weight: 40kg
28. Gross Weight: 43kg

5. Channel Mode

DMX512Channel

Channels	Name	Value	Description
CH1	**Pan**	0-255	0-540 degree
CH2	**Pan fine**	0-255	0-2 degree
CH3	**Tilt**	0-255	0-270 degree
CH4	**Tilt fine**	0-255	0-1 degree
CH5	**P/T Speed**	0-255	Fast to slow
CH6	**Strobe**	0-3	Off
		4-127	Pulse strobe Slow → fast
		128-191	Gradual strobe Slow → fast
		192-251	Random strobe Slow → fast
		252-255	On
CH7	**Dimming**	0-255	0-100% dimming
CH8	**C**	0-255	
CH9	**M**	0-255	
CH10	**Y**	0-255	
CH11	**CTO**	0-255	
CH12	**Color**	0-127	Linear Color
		128-137	Color 1
		138-146	Color 2
		147-155	Color 3
		156-164	Color 4
		165-173	Color 5
		174-182	Color 6
		183-191	Color 7
		192-222	Forward rotation Fast → slow
		223-224	Stop
		225-255	Reverse rotation Slow → fast
CH13	**Value**	0	Blank
		1-255	0-100% linear insertion
CH14	**Gobo**	0-9	White
		10-19	Gobo 1
		20-29	Gobo 2

		30-39	Gobo 3
		40-49	Gobo 4
		50-59	Gobo 5
		60-69	Gobo 6
		70-79	Gobo 1 shaking Slow → fast
		80-89	Gobo 2 shaking Slow → fast
		90-99	Gobo 3 shaking Slow → fast
		100-109	Gobo 4 shaking Slow → fast
		110-119	Gobo 5 shaking Slow → fast
		120-129	Gobo 6 shaking Slow → fast
		130-190	Forward rotation Fast → slow
		191-192	Stop
		193-255	Reverse rotation Slow → fast
CH15	**Rotating Gobo**	0-9	White
		10-19	Gobo 1
		20-29	Gobo 2
		30-39	Gobo 3
		40-49	Gobo 4
		50-59	Gobo 5
		60-69	Gobo 6
		70-79	Gobo 1 shaking Slow → fast
		80-89	Gobo 2 shaking Slow → fast
		90-99	Gobo 3 shaking Slow → fast
		100-109	Gobo 4 shaking Slow → fast
		110-119	Gobo 5 shaking Slow → fast
		120-129	Gobo 6 shaking Slow → fast
		130-190	Forward rotation Fast → slow
		191-192	Stop
		193-255	Reverse rotation Slow → fast
CH16	**Pattern rotation**	0-127	0-400 degree
		128-190	Forward rotation Fast → slow
		191-192	Stop
		193-255	Reverse rotation Slow → fast
CH17	**Effect insertion**	0-10	Move
		11-255	Linear insertion
CH18	**Effect Wheel**	0-2	Stop

		3-128	Forward rotation Fast → slow
		129-255	Reverse rotation Slow → fast
CH19	**Focus**	0-255	Far ⟶ Close
CH20	**Focus fine**		
CH21	**Zoom**	0-255	Small→Large
CH22	**Prism**	0-63	Off
		64-127	Prism-1
		128-191	Prism-2
		192-255	Prism-1+Prism-2
CH23	**Prism1-Rot**	0-127	0-400 degree
		128-187	Forward rotation Fast → slow
		188-195	Off
		196-255	Reverse rotation Slow → fast
CH24	**Prism2-Rot**	0-127	0-400 degree
		128-187	Forward rotation Fast → slow
		188-195	Off
		196-255	Reverse rotation Slow → fast
CH25	**Frost**	0-127	Blank
		128-255	Frost
CH26	**Slice 1**	0-255	Linear insertion
CH27	**Slice 2**	0-255	Linear insertion
CH28	**Slice 3**	0-255	Linear insertion
CH29	**Slice 4**	0-255	Linear insertion
CH30	**Slice 5**	0-255	Linear insertion
CH31	**Slice 6**	0-255	Linear insertion
CH32	**Slice 7**	0-255	Linear insertion
CH33	**Slice 8**	0-255	Linear insertion
CH34	**Cutting Plate**	0-255	Cutting plate angle (0-90 degree)
CH35	**Iris**	0-255	Large → Small
CH36	**Function**	210-215	Reset XY after 3 seconds
		220-235	Reset effective motor after 4 seconds
		240-255	Reset all after 5 seconds

6. Installation

Before install, please make sure the power supply is the same as the product identified.

The cable connecting to the main power supply must meet the requirements, should not overload.

The installation must be done by professional person, fixed the light safely and reliable, and transferred to appropriate irradiation angle.

Please ensure that the draft fan and exhaust channel is not blocked

At the bottom of the moving head light with insurance line connection hole, based on safety reasons, please use the insurance rope which can withstand ten times the weight of the Moving head through the insurance line connection hole for auxiliary lifting.

When install this equipment, please ensure that at least 1.5 meters range no extreme inflammable and explosive items(ornaments, etc.) ensure the moving head light and the wall interval twenty centimeters of above.

This product can be fixed hanging installation and put on the floor to use.

Based on the safety, please make sure the earth wire grounded.

The Pan and Tilt of this product was locked when packing, please ensure it was unlocked before the power on.

7. Installation and change of the Lamp

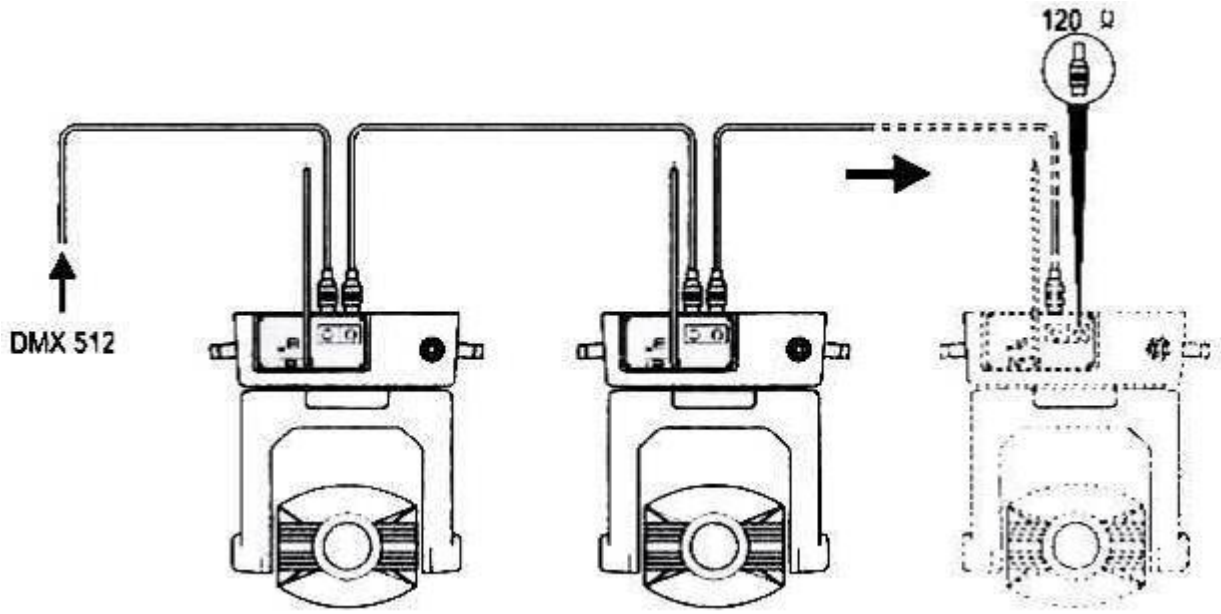
In order to prolong the life of the moving head light as far as possible, please choose the same type of lamp for it.

First of all to unscrew the four screws on the back cover of the moving head light, then open the back cover, pinch the ceramic holder of the bulb and anti-clockwise rotation 90°， take out the lamp.

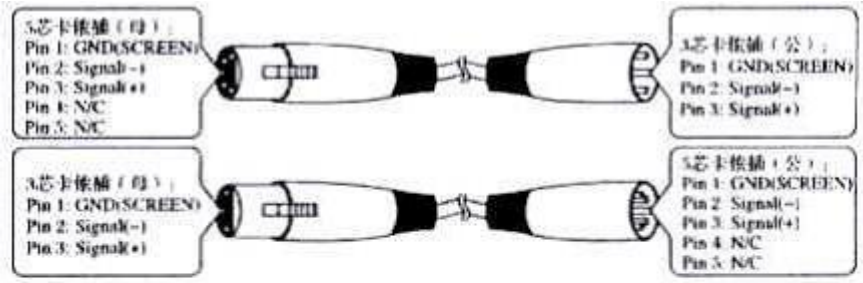
Open the bulb packing carefully, take out the new lamp, pinch lamp ceramic holder, insert the lamp holder and 90° clockwise rotation.

8. The connecting of the signal cable

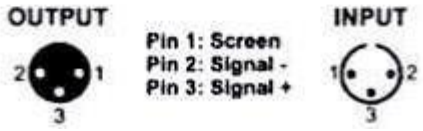
Connected the XLR control cable from the DMX controller’s outlet to the first moving head light’s input port , and connected from the first light’s DMX outlet to the second light’s DMX input port, repeating the process, until all the lights are of connection. Then connected the accompanied circuit plug to the last light’s signal output port, the connection finished, as shown in figure:



Note: please remember to connect a circuit plug to the last moving head light's signal output port. Between the second and third pole of the CANON plug of this circuit plug have a 120Ω resistance, connect this circuit plug can avoid signal reflection phenomenon during the DMX512 signal transmission process.



三芯卡依插（Canon）DMX512接口线路



This moving head use 3 pin XLR plug. If your controller used 5 pin XLR plug, you must use a 5 pin to 3 pin patch cord. See above.

9. Button Instruction

MENU - To select the programming functions

DOWN - To go backward in the selected functions

UP - To go forward in the selected functions

ENTER - To confirm the selected functions

10. Maintain

Keep dry, and avoid working in damp conditions

Intermittent use can effectively prolong the service life of the lamps.

In order to obtain the good ventilation effect and lighting effects, you'd better to clean the fan, fan nets and lens often.

Do not use organic solvent such as alcohol. To wipe the lamps shell, it may cause some damage.

11. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Cleaned with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

12. Statement

This product was in good performance condition and completely packed before delivery. All users should strictly abide by the above statement warnings and instructions. Any damage caused by misuse is not within the company warranty, and the company will not be responsible for the cause of damage because of the operator's ignorance of this user manual.