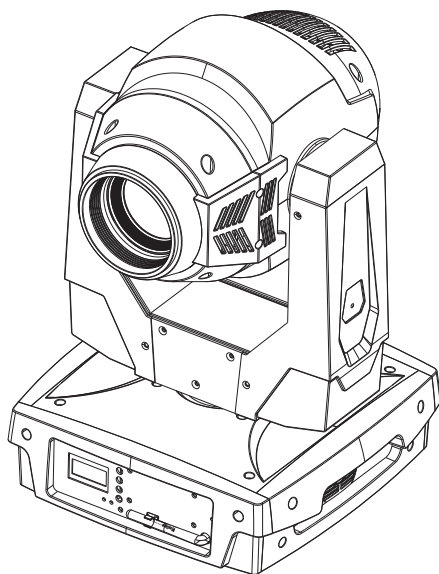


USER MANUAL

52×30mm (掏空)
4R-10
型号



Moving head

- Professional stage lighting equipment

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1.Open-Package guidelines

Congratulations on choosing our products! Please carefully read this instruction manual in its entirety and keep it well for using reference. This manual contained about the installation and the relative using information of this products. Please according to this manual's relative speaking when using this equipment.

This equipment was made of new style, high intensity plastic. It fully shows the modern times light characteristic with beauty structure. And it was made according to CE standard. Fully up to the international standard of DMX512 agreement. Master or slave in phase control. Can be used in large entertainment theater, performing and playing hall etc.

When receive the product, please be careful to take and put, check if the product has damage or not because of transportation, and check the following parts:

- | | |
|---------------------|----------------------|
| 1. Signal cable-1PC | 2. Safety cable-1PC |
| 3. User Manual-1PC | 4. Omega holder-2PCS |
| 5. Power cable-1PC | 5. Service card-1PC |

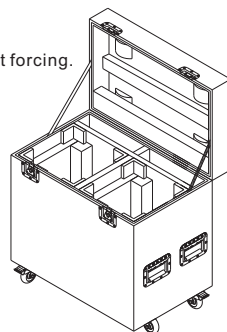
1.1 Package

Unpacking the fixture

1. Open the flight case cover
2. With one person on each side, lift the fixture out of the flight case.
3. Unlock pan and tilt before operating fixture

Packing the fixture

1. Disconnect the fixture from power and allow it to cool.
2. Lock head and arms as figure.
3. Place the fixture in the bottom of the flight case, and cover the case without forcing.



Aviation box

2.Safety instructions

Every person involved with installation and maintenance of this device have to:

- be qualified
- follow the instructions of this manual entertainment theater, performing and playing hall etc.

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.

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.
- Never let the power-cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Make sure that the available voltage is not higher than stated on the rear panel.
- Always plug in the power plug least. Make sure that the power-switch is set to off-position before you connect with the mains with particular caution!
- 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 powercord.
- 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. Only 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 ! EYEDAMAGES !

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

➤ Installation

Make sure all parts for fixing the projector are in a good state of repair.
Make sure the point of anchorage is stable before positioning the projector.
The safety chain must be properly hooked onto the fitting and secured to the framework, so that, if the primary support system fails, the fitting falls as little as possible. If the safety chain gets used, it needs to be replaced with a genuine spare.

➤ Minimum distance of illuminated objects

The projector needs to be positioned so that the objects hit by the beam of light are at least 12 metres from the lens of the projector.

➤ Minimum distance from flammable materials

The projector must be positioned so that any flammable materials are at least 12 metres (8") from every point on the surface of the fitting.

➤ Mounting surfaces

It is permissible to mount the fitting on normally flammable surfaces.

➤ Maximum ambient temperature

For the fitting to operate well and reliably, the ambient temperature should not exceed 40°C (104°F).

212W  2.5m



t_a 40°C



➤Protection against electrical shock

Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.

➤Hooking up to the supply mains

Connection to the electricity mains must be carried out by a qualified electrical installer.

Check that the mains frequency and voltage correspond to those for which the projector is designed as given on the electrical data label.

This label also gives the input power to which you need to refer to evaluate the maximum number of fittings to connect to the electricity line, in order to avoid overloading.

t_c 80°C

➤Temperature of the external surface

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 80°C (176°F).

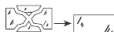
➤Maintenance

Before starting any maintenance work or cleaning the projector, cut off power from the mains supply.

After switching off, do not remove any parts of the fitting for at least 10 minutes. After this time the likelihood of the lamp exploding is virtually nil. If it is necessary to replace the lamp, wait for another 15 minutes to avoid getting burnt.

The fitting is designed to hold in any splinters produced by a lamp exploding.

The lenses must be mounted and, if visibly damaged, they have to be replaced with genuine spares.



➤Lamp

The fitting mounts a high-pressure lamp that needs an external igniter. This igniter is fitted onto the apparatus.

- Carefully read the "operating instructions" provided by the lamp manufacturer.
- Immediately replace the lamp if damaged or deformed by heat.

3. Operating determinations

- This device is a moving-head for creating decorative effects and was designed for indoor use only.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- Never run the device without lamp!
- Do not shake the device. Avoid brute force when installing or operating the device.
- Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.
- When choosing the installation-spot, please make sure that the device is not exposed to heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!
- The minimum distance between light output and the illuminated surface must be more than 1.5 meters.
- Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.

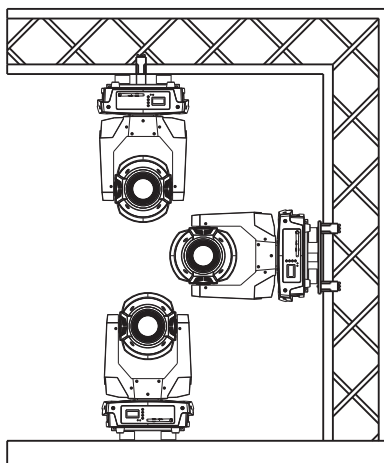
- Always fix the fixture with an appropriate safety rope. Fix the safety rope at the correct holes only.
- Operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- The lamp must never be ignited if the objective-lens or any housing-cover is open, as discharge lamps may explode and emit a high ultraviolet radiation, which may cause burns.
- The maximum ambient temperature 40°C must never be exceeded.
- Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation!
- Please use the original packaging if the device is to be transported.
- Please consider that unauthorized modifications on the device are forbidden due to safety reasons!
- If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, burns due to ultraviolet radiation, lamp explosion, crash etc.

The lamp used in this projector is a discharge lamp. After switching off don't attempt to restart the projector until lamp has cooled, this will require approx 15 minutes. Switching the lamp on and off at short intervals will reduce the life of both the lamp and the projector. But occasional breaks will prolong the lamp and projector

4. Rigging the fixture

4. 1 Mounting

- The FIXTURE can be installed in any position.





Pay attention to the regulations of CE

The installation shall be done by qualified staff only

- ☞ For the various mounting positions of the FIXTURE (standing on the floor, sideways or hanging) different accessories kits are available.
- ☞ Through this a safe and firm installation is assured.
- ☞ You'll find special connectors on the bottom side of the system which are put to use here.
- ☞ In addition the front side of the system is marked with (FRONT) as this is important for a even orientation during installation.

4. 2 Installing the Clamps

– DANGER TO LIFE Please consider the respective national norms during the Installation! The installation must only be carried out by an authorized dealer!

– The installation of the projector has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

– The installation must always be secured with a secondary safety attachment, e.g. An appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall if the main attachment fails.

– When rigging, derigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

– The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

– The operator has to make sure that safety-relating and machine-technical installations are approved by an expert after every four year in the course of an acceptance test.

– The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

– The projector should not be installed outside areas where persons may walk by or be seated.

– Important! Overhead rigging requires extensive experience, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and or damage to property.

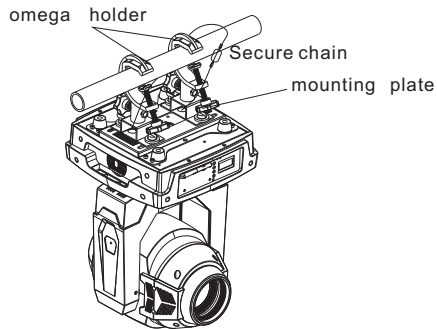
– The projector has to be installed out of the reach of people.

– If the projector shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The projector must never be fixed swinging freely in the room.

– Caution Projectors may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do NOT install the projector!

– The projector can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics.

– For overhead use, always install a safety-rope that can hold at least 10 times the weight of the fixture. You must only use safety-ropes with screw on carabines. Pull the safety-rope through the two apertures on the bottom of the base and over the trussing system etc.



4.3 POWER Connection

If you wish to change the power supply settings, see the chapter Appendix
Connect the fixture to the mains with the enclosed power cable and plug.
The earth has to be connected!

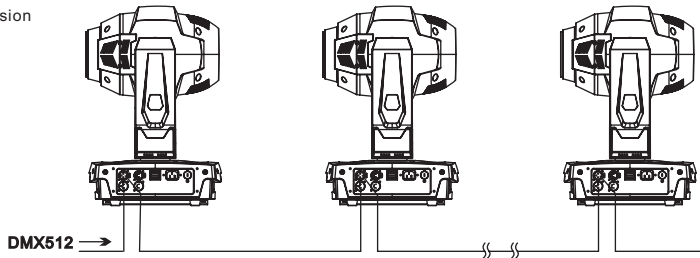
Cable (EU)	Cable (US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	⊕

DMX-512 Connection

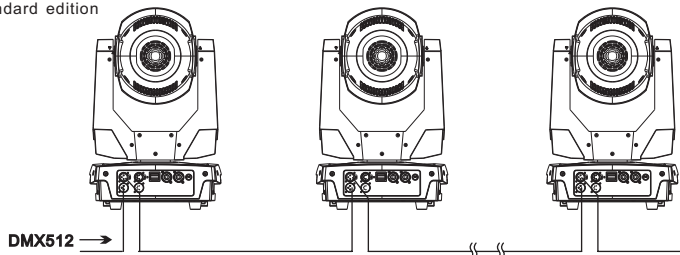
DMX-512 connection/connection between fixtures

Only use stereo shielded cable and 3-pin XLR-plugs and connectors in order to connect.

Standard Version



European standard edition



Caution

At the last fixture, the DMX-cable has to be terminated with a terminator. solder a 120 resistor between signal(-) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

DMX output
3-Pin XLR Socket



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

DMX input
3-Pin XLR Socket



DMX output
5-Pin XLR Socket

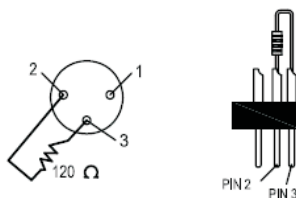


- 1: Ground
- 2: Signal (-)
- 3: Signal (+)
- 4: N. A.
- 5: N. A.

DMX input
5-Pin XLR Socket

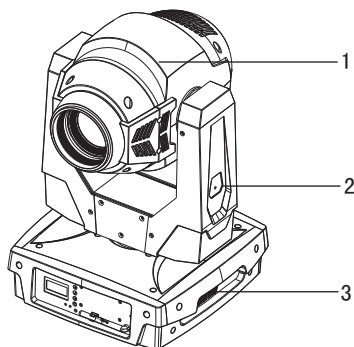


DMX Terminator Diagram



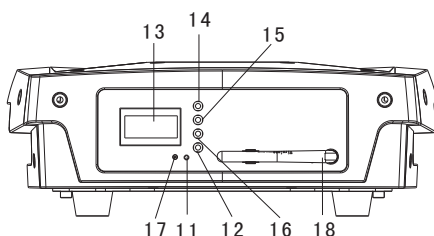
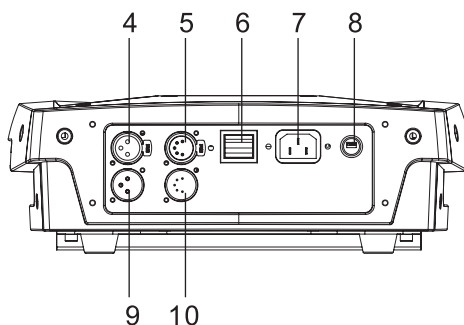
- For installations where the DMX cable has to run a long distance or is in an electrically noisy environment it is recommended to use a DMX terminator. This helps in preventing corruption of the signal by electrical noise. The DMX terminator is simply an XLR plug with a 120Ω resistor connected between pins 2 and pins 3, which is then plugged into the output XLR socket of the last fixture in the chain.

5.Description of the device



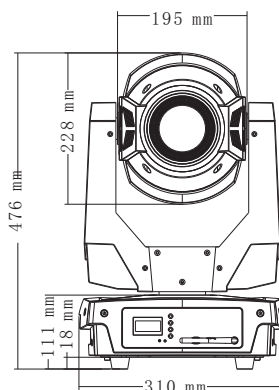
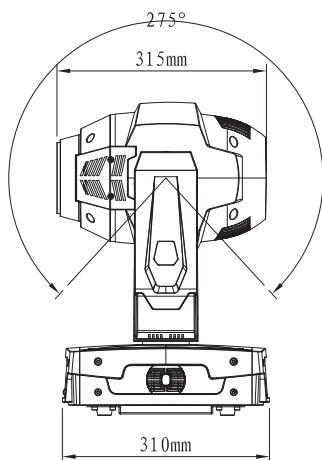
- 1. HEAD
- 2. ARM
- 3. BASE

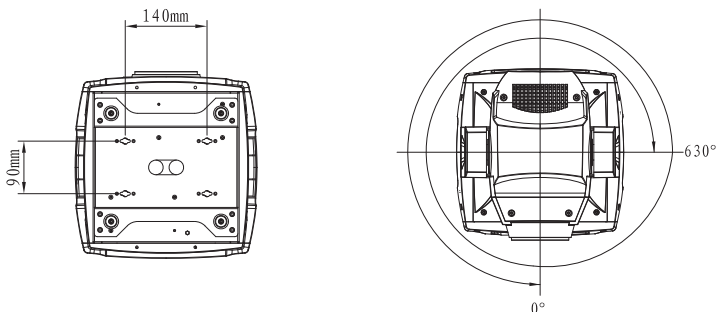
- 4. 3-pin XLR female
- 5. 5-pin XLR female
- 6. power switch
- 7. power-in
- 8. Insurance seat
- 9. 3-pin XLR male
- 10. 5-pin XLR male



- 11.MIC pilot hole
- 12.ENTER button
- 13.LCD display
- 14.MODE button
- 15.UP button
- 16.DOWN button
- 17.WDMX pilot hole
- 18.WDMX wire

6.Dimension





7.Display control

7.1 Navigation in the Menu

Using touch control switch and LCD display, and this can be simply and easily set the address code and functions code.

If you view or modify the lighting feature set, then press MODE button, the LCD display will enter the menu interface. Both there is sub menu corresponding to the functional operation of the main menu. Each of the menus is representative of the specific features of the lamp. The specific contents shows as the table menu below.

Set or browse lighting function, press UP or DOWN button.

Press ENTER to save your changes or enter the submenu. Press the UP or DOWN can change the numerical (increase or decrease in value).

Press the MODE button to return to menu. Such as 60 seconds without pressing any key, it will automatically exit the menu operation interface.

7.2 Display Operation

Connect power and open lamp power switch, Lamps began to reset self-test, at the same time, LCD display shows company LOGO website, product model, software version.

Reset self-test is finished, the display will show the following table, that is the lighting of the state.

Display window is set to display the status of the DMX address "001", said the DMX address code. If the display no flashes that indicate the DMX signal is connected properly. This status can be used to check the lighting and the console connection is normal or not.

Display window is set to display each channel DMX value state. Bottom of the screen location to displays the channel name. Central location to displays the channel's DMX value.

The lamps can be set to host voice run/ host running built-in program/ Stand-alone voice/ Stand-alone running built-in program, when set to host, it can not connect to the console, or there will be interference.

Lamps in the reset process if there is a channel failure, the LCD screen will rotate the PAN, TILT, COLOR, RGOBO, RGOBO2, FOCUS, PRISM "information. That is to say horizontal, vertical, color wheel, rotating gobo, wheel, focus, prism have fault. When failure information appears, the lamps will once again self-test to reset a time and Verifies failures channels, and then Lamps into the normal control state. however, the failure of the channel will not be controlled.

7.3 Menu Maps

Function	Addr	001~xxx		修改 DMX 地址	
	Value	Free Ch …….		显示各个通道值	
	Auto	Alone		单机自动程序	
		Master		主机自动程序	
		OFF		关	
	Music	Alone		单机自动程序	
Master		主机自动程序			
OFF		关			
Info	Time	Current	xxxx	本次开机时间显示开关	
		Total	xxxx	机器总运行时间显示开关	
		Clear	ON/OFF	清除机器当前运行时间 如果把通道 1,2,3 的数值设 为 10.3.10, 在选择 ON 则同时清除机 器总的运行时间	
	Temp	Head T	xxx	光源部位温度显示开关	
	Product	Vxx		软件版本	
Personal	Status	Addr DMX	ON/OFF	控台修改地址开关。 当设为开时把通道 1 调到 10、通道 2 调到 10（当所设地址大于 255 时， 则调到 11，地址为通道 3 的值 加 255）、通道 3 调到所要修改的地址 值，则 20 秒后灯具的地址被改为通 道 3 设的数值。	
			No DMX	Clos	无 DMX 时的状态选择 回到复位状态
		Hold		保持无信号前的状态	
		Auto		运行自动程序	
		Musi		运行声控程序	
		Pan R	ON/OFF	水平扫描反相	
		Tilt R	ON/OFF	垂直扫描反相	
		DMX Mod	Mod1/Mod2	通道模式 1/通道模式 2	
		Feed	ON/OFF	扫描测位盘是否起作用	
		Wdmx	Alone/Master /Off/Reset	无线单机/无线主机/无效/复位	
		Mic	70, 0~99	声控灵敏度调节	
	Display	CloseT	05, 02~59	显示屏背光关闭时间	
		Rev	ON/OFF	显示反相	
	Default				重载出厂时所有参数
	Reset	All	灯具全部复位		
Pan/Tilt		扫描单独复位			
Col		颜色复位			
Gobo		图案复位			
Else		其他复位			
Adjust	Test	Pan…….xxx	xxx	通道测试	
	Regulate	Sn	xxx	调节通道偏移量密码 088	
		Pan	xxx	调节通道偏移量	

Note: if the actual product menu item shows "N/A" (in English) said "nothing" (in Chinese) product without the function.

8.DMX protocol

Mode1	Mode2	Name	Function	DMX Value
1	1	Pan 8BIT	PAN 8BIT	0-255
2		Pan 16BIT	PAN 16BIT	0-255
3	2	Tilt 8BIT	TILT 8BIT	0-255
4		Tilt 16BIT	TILT 16BIT	0-255
5	3	Speed pan/tilt movement	max to min speed	0-225
			blackout by movement	226-235
			blackout by all wheel changing	236-245
			no function	246-255
6	4	Color wheel1	Open / white	0-14
			Color 1	15-29
			Color 2	30-44
			Color 3	45-59
			Color 4	60-74
			Color 5	75-94
			Color 6	90-104
			Color 7	105-119
			Color 8	120-127
			Forwards rainbow effect from fast to slow	128-187
			No rotation	188-193
			Backwards rainbow effect from slow to fast	194-255
7	5	Rotating gobo change	Open	0-9
			Rot. gobo 1	10-19
			Rot. gobo 2	20-29
			Rot. gobo 3	30-39
			Rot. gobo 4	40-49
			Rot. gobo 5	50-59
			Rot. gobo 6	60-69
			Rot. gobo 7	70-79
			Gobo 1 shake slow to fast	80-99
			Gobo 2 shake slow to fast	100-119
			Gobo 3 shake slow to fast	120-139
			Gobo 4 shake slow to fast	140-159
			Gobo 5 shake slow to fast	160-179
			Gobo 6 shake slow to fast	180-199
			Gobo 7 shake slow to fast	200-219
			Rot. gobo wheel cont. rotation slow to fast	220-255
8	6	Gobo rotation	No rotation	0-8
			Forwards gobo rotation from fast to slow	9-127
			No rotation	128-135
			Backwards gobo rotation from slow to fast	136-255
9	7	Gobos	Open	0-9
			Gobo 1	10-19
			Gobo 2	20-29
			Gobo 3	30-39
			Gobo 4	40-49
			Gobo 5	50-59
			Gobo 6	60-69
			Gobo 7	70-79
			Gobo 8	80-89
			Gobo 9	90-99
			Gobo 1 shake slow to fast	100-109
			Gobo 2 shake slow to fast	110-119

			Gobo 3 shake slow to fast	120–129
			Gobo 4 shake slow to fast	130–139
			Gobo 5 shake slow to fast	140–149
			Gobo 6 shake slow to fast	150–159
			Gobo 7 shake slow to fast	160–169
			Gobo 8 shake slow to fast	170–179
			Gobo 9 shake slow to fast	180–189
			Rot. gobo wheel cont. rotation slow to fast	190–255
10	8	3Prism insertion	closed	0–3
			Forwards rotation from fast to slow	4–63
			No rotation	64–67
			Backwards rotation from slow to fast	68–127
			Macro 1	128–135
			Macro 2	136–143
			Macro 3	144–151
			Macro 4	152–159
			Macro 5	160–167
			Macro 6	168–175
			Macro 7	176–183
			Macro 8	184–191
			Macro 9	192–199
			Macro 10	200–207
			Macro 11	208–215
			Macro 12	216–223
			Macro 13	224–231
			Macro 14	232–239
			Macro 15	240–255
11	9	Focus	Continuous adjustment from near to far	0–255
12	10	Strobe	No function (shutter open)	0
			Strobe effect slow to fast	1–95
			No function (shutter open)	96–127
			Pulse-effect in sequences	128–159
			No function (shutter open)	160–191
			Random strobe effect slow to fast	192–223
			No function (shutter open)	224–255
13	11	Dimmer	Intensity 0 to 100%	0–255
14	12	Reset	colour change normal	0–20
			colour change to any position	20–39
			No function	40–79
			All motor reset	80–84
			Scan motor reset	85–87
			Colors motor reset	88–90
			Gobo motor reset	91–93
			No function	94–96
			Other motor reset	97–99
			Internal program 1	100–119
			Internal program 2	120–139
			Internal program 3	140–159
			Internal program 4	160–179
			Internal program 5	180–199
			Internal program 6	200–219
			Internal program 7	220–239
			Internal program 8	240–255

9.Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not buildup on or within the fixture. Otherwise, the fixtures 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 through out 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 gobos may be cleaned with a soft brush. The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet.

The dichroic colour-filters, the gobo-wheel and the internal lenses should be cleaned monthly.

To ensure a proper function of the gobo-wheel, we recommend lubrication in six month intervals. The quantity of oil must not be excessive in order to avoid that oil runs out when the gobo-wheel rotates.

There are no serviceable parts inside the device except for the lamp and the fuse.

Replacing the fuse

If the lamp burns out, the fine-wire fuse of the device might fuse, too. Only replace the fuse by a fuse of same type and rating. Before replacing the fuse, unplug mains lead.

10.Electric equipment specification

10.1 Electrical parameters

SOURCE : High power 120W LED light source

POWER CONSUMPTION : 212W AC220V/50HZ

VOLTAGE : AC100-250V 50/60HZ

10.2 Weight and dimensions

Dimensions:(WxHxD) : 310X310X476mm

NET WEIGHT:13.5KG

Dimensions (Paper skin) : 395 (长) X393 (宽) X535 (高) mm

WEIGHT (Paper skin) : 16.5Kg

10.3 Channel Characteristics

14 DMX CHs

Scan : Pan 540°,Tilt260°.Scan speed adjustable. Scan following with shutter. Fixture could auto reset.

Color Wheel : one open+8 colors.Speed variable double way rainbow effect. Color location/color random optional.

Gobo wheel : 7 rotation gobos + open, 9 static gobos + open.

Prism system : internally install prism effect.

Focus : Linearity

Strobe : eletronic strobe, synchronous,non-synchronous,random strobe effect.

Dimmer : full range dimming

10.4 Menu Function

Blue/White LCD display graphic

Each DMX Value displayable

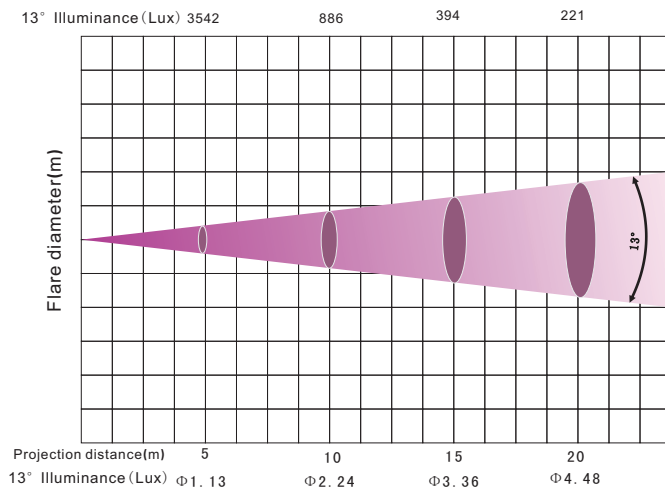
Monitor could ON/OFF automatically

Show fixture,lamp use time.

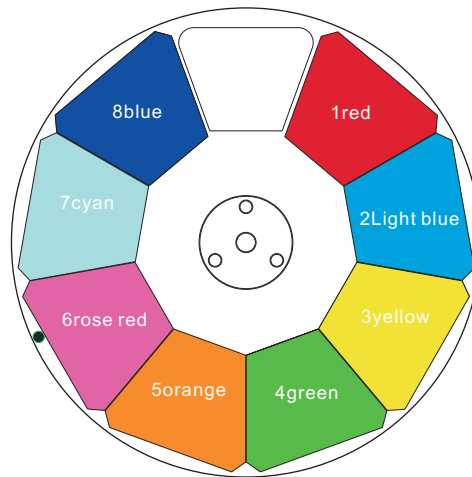
No signal, fixture status keep reset status, maintain status,

AutoPlay procedure, sound control status

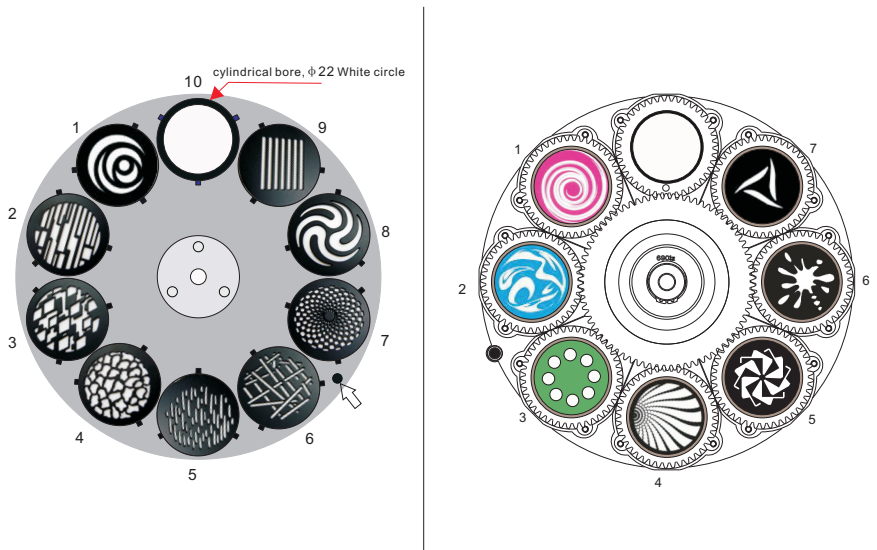
10.5 light table



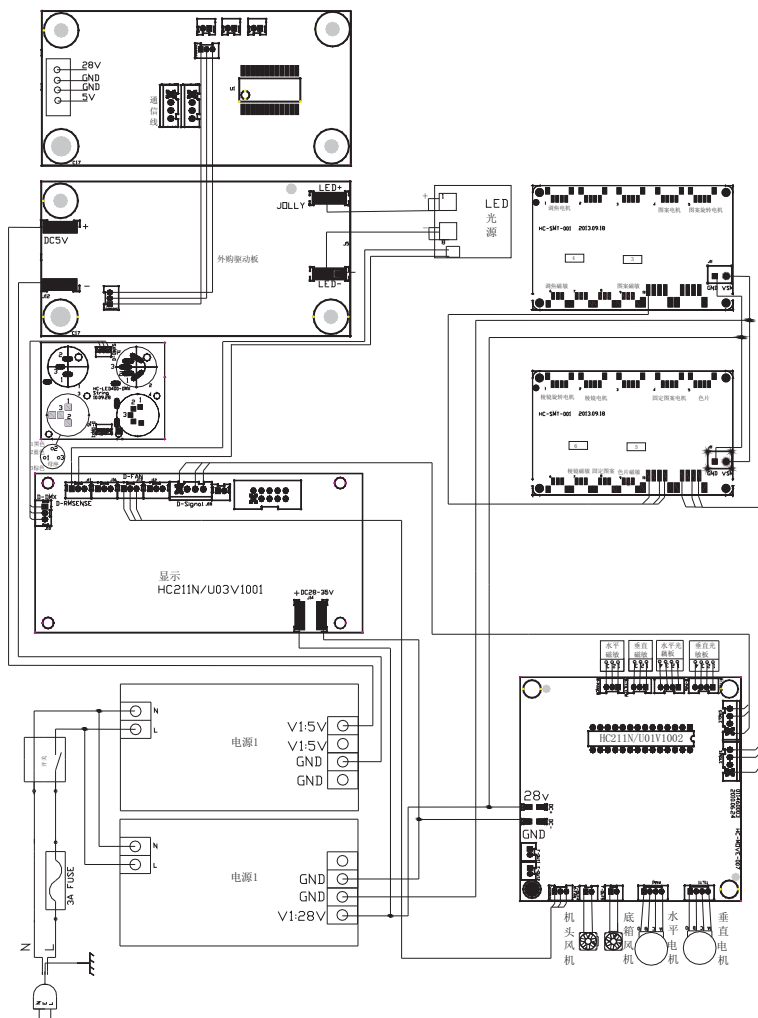
10.6 Color disk



10.7 Gobo wheel



11.Electronic drawing



Note: The above information is for reference only, the final interpretation is belong to manufacturer.

