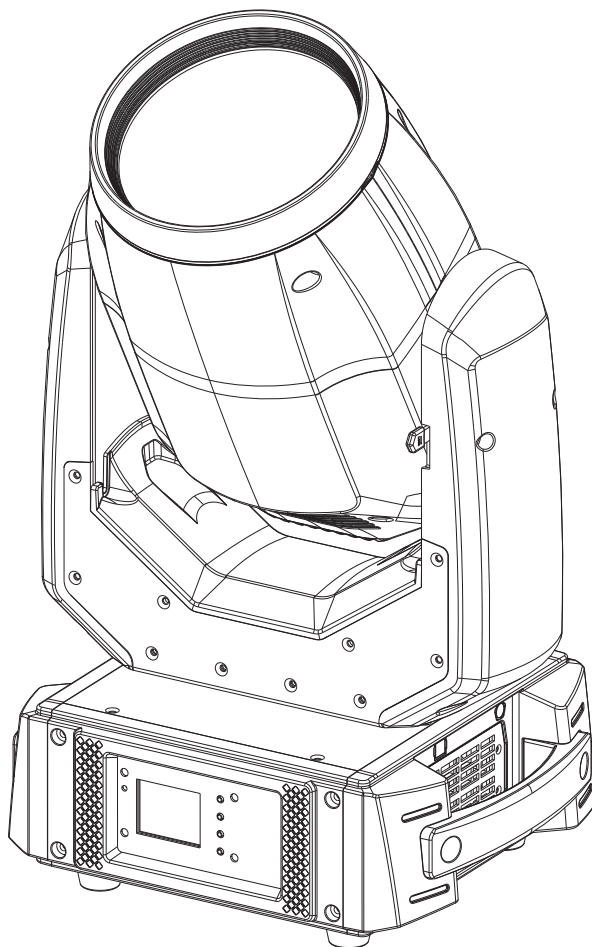


# **A-2 Beam<sup>L</sup>**

## **USER MANUAL**



Version:1.0





## Table of content

1.Open–Package guidelines.....	1
1. 1 Package.....	1
2.Safety instructions.....	1
3.Operating determination.....	3
4.Rigging the fixture.....	4
4.1 Mounting.....	4
4.2Installing the Clamps.....	4
4.3 Power supply connection and cut off.....	5
4.4 Power Connection.....	6
4.5 DMX–512 connection/connection between fixtures.....	6
5.Description of the device.....	7
6.Dimension.....	8
7.Display control.....	9
7.1 Navigation in the Menu.....	9
7.2 Display Operation.....	9
7.3 Unit Menu .....	10
8.DMX protocol.....	11
9.Maintance and cleaning.....	13
10.Electric equipment specification.....	14
10.1 Electrical paramters.....	14
10.2 Weight and dimensions.....	14
10.3 Channel Characteristics.....	14
10.4 Menu Function.....	14
10.5 light table.....	15
10.6 Gobo wheel.....	15
10.7 Color wheel.....	16
11.Electronic drawing.....	17

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 refer to this manual's relative instruction when using this equipment.

## 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 refer to this manual's relative instruction when using this equipment.

This equipment is made of new style, high intensity plastic. It fully shows the modern times light characteristics with beauty structure. And it is made according to CE standard. Fully agree with the international standard of DMX512 agreement.

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  |

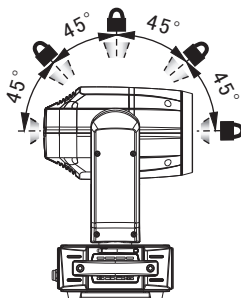
### 1. 1 Package

Unpacking the fixture

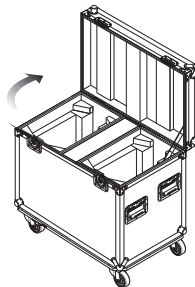
- 1.Open the flight case cover.
- 2.With one person on each side, lift the fixture out of the flight case.
- 3.Unlock tilt before operating fixture.

Packing the fixture

- 1.Disconnect the fixture from power and allow it to cool.
- 2.Lock head as figure.- Fig.1(Tilt Mechanism Lock and Release (every 45°).
- 3.Place the fixture in the bottom of the flight case, and cover the case without forcing.



Tilt Mechanism Lock Fig.1



Aviation box Fig. 2

## 2.Safety instructions

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

- Be qualified
- Follow the instructions of this manual.

**CAUTION!**

*Be careful with your operations.  
With a high voltage you can suffer  
a dangerous electric shock when touching the wires!*

This device has been shipped with 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 nonobservance 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 particular caution!
- Make sure that the available voltage is not higher than stated on the rearpanel.
- Always plug in the power plug least. Make sure that the power-switch is set to off-position before you connect them 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.
- 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.

### Eye damage!

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

- |  |  |
|--|--|
|  --0.8m | ➤ Minimum distance of illuminated objects<br>The projector needs to be positioned so that the objects hit by the beam of light are at least 0.8 metres from the lens of the projector.   |
| t <sub>a</sub> 40°C  | ➤ Maximum ambient temperature<br>Do not operate the fixture if the ambient temperature (T <sub>a</sub> ) exceeds 40°C (104°F).   |
| t <sub>c</sub> 90°C  | ➤ Temperature of the external surface<br>The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 90°C (194°F).   |
| IP20   | ➤ IP20 protection rating<br>The fitting is protected against penetration by solid of over 12mm (0.47") in diameter (first digit 2), but not against dripping water, rain, splashes or jets of water (second digit 0).  |
|         | ➤ Indoor use only  |
|        | ➤ Not suitable for household illumination  |
|       | ➤ Photobiological Safety<br><b>CAUTION.</b> Do not look directly at the light source. Do not look at the light beam with optical devices or any other tool that could cause light convergence.<br>The fixture must be positioned so that the minimum distance between the front lens and human eye is at least 3 metres to prevent personal photobiological risks.   |
|       |  |
|       | ➤ Mounting surfaces<br>It is permissible to mount the fitting on normally flammable surfaces.  |
|       | ➤ The products to which this manual refers comply with the European Directives pursuant to :<br>• Safety of electrical equipment supplied at low voltage ( LVD)<br>EN 60598-1:2015<br>EN 60598-2-17:1989+A2:1991<br>• Electromagnetic Compatibility (EMC)<br>EN 55015:2013/A1:2015<br>EN 61000-3-2:2014<br>EN 61000-3-3:2013<br>EN 61547:2019<br>• Restriction of the use of certain hazardous substances (RoHS)<br>2011/65/EU |



#### 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.



#### ➤ Disposing

This product is supplied in compliance with European Directive 2012/19/EU-Waste Electrical and Electronic Equipment (WEEE). To preserve the environment please dispose/recycle this product at the end of its life according to the local regulation.



#### ➤ Battery

This product contains a rechargeable lead-acid or lithium iron tetraphosphate battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.



#### ➤ 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.



#### ➤ 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 small. 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.



## 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 0.2 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.

## 4. Rigging the fixture

### 4.1 Mounting



***Pay attention to the regulations of CE.***

***Installation by qualified staff to complete.***

- ☞ 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.

### 4.2 Installing the Clamps

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 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 years 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 be installed outside areas where persons may walk by or be seated.

**Important!** Overhead rigging requires extensive experience CE, 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!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the projector's weight.

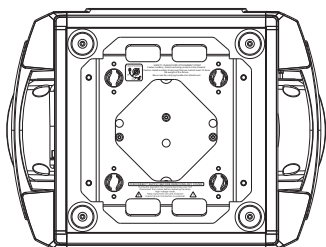
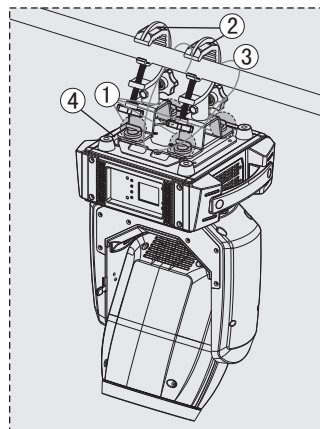


The projector can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics.

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.

**Warning:** it is necessary to make sure that the installation location is perfectly appropriate, and the installation location is safe and reliable.

- |   |                |
|---|----------------|
| ① | Lock catch     |
| ② | omega holder   |
| ③ | secure chain   |
| ④ | mounting plate |



**SAFETY CHAIN/CORD ATTACHMENT POINT**  
Fasten a safety chain/cord using cutouts in the chassis!  
Caution: Install a safety chain/cord that can hold at least 10 times the weight of the fixture.  
Never use the carrying handles for attachment.

**DISCONNECT SUPPLY BEFORE REMOVING ANY COVER**

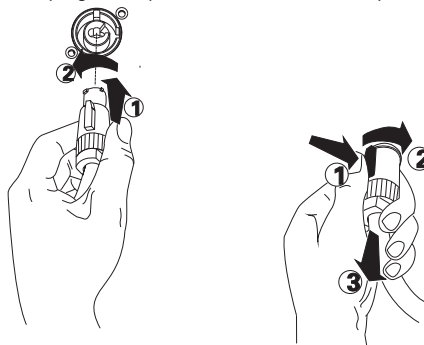
During the operation the housing becomes very hot!  
Disconnect from mains before replacing the lamp.  
High voltage inside.  
Keep away from rain and moisture!  
A good ground connection is essential.

### 4.3 Power supply connection and cut off

Connect the light source to the main power source with the plug of the power cord, or cut off the power supply:

**Connection:** according to procedures, the power plug and socket is inserted into the groove one one alignment, rotation.

**Cut off:** according to procedures, press the button on the rotating plug, pull out.



## 4.4 Power Connection

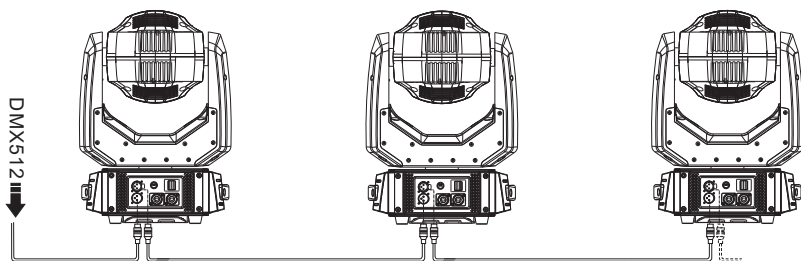
If you wish to change the power supply settings, see the chapter appendix Connect the fixture to the mains with the enclosed power cable and plug.

**Warning:** please verify the power of the power supply equipment prior to the connection! Earth wire must be grounded!

CABLE(EU)	CABLE(US)	Pin	INTERNATIONAL
Brown	Black	Live	<b>L</b>
Light blue	White	Neutral	<b>N</b>
Yellow/Green	Green	Earth	<b>⊕</b>

## 4.5 DMX-512 connection/connection between fixtures

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



### 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



DMX input  
3-pin XLR socket



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

DMX output  
5-pin XLR socket



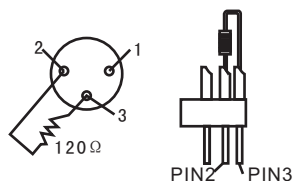
DMX input  
5-pin XLR socket



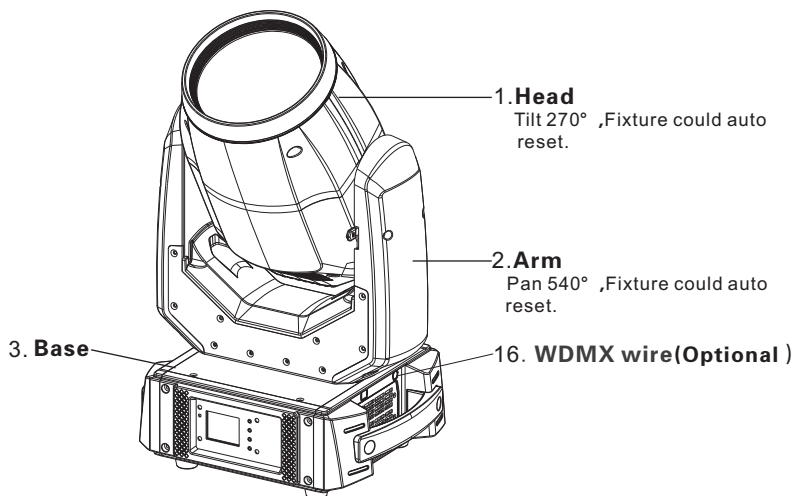
1: Ground  
2: Signal (-)  
3: Signal (+)  
4: N. A.  
5: N. A.

### 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.

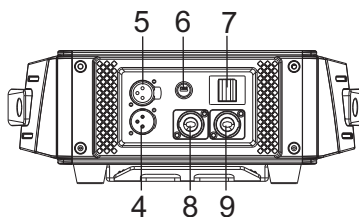


## 5. Description of the device



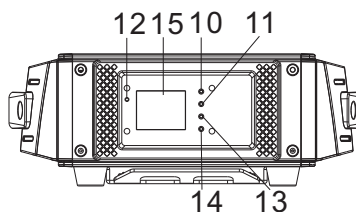
### BACK PANEL

- 4. 3-pin XLR male
- 5. 3-pin XLR female
- 6. Main Fuse
- 7. Power switch
- 8. Power-in
- 9. Power-out

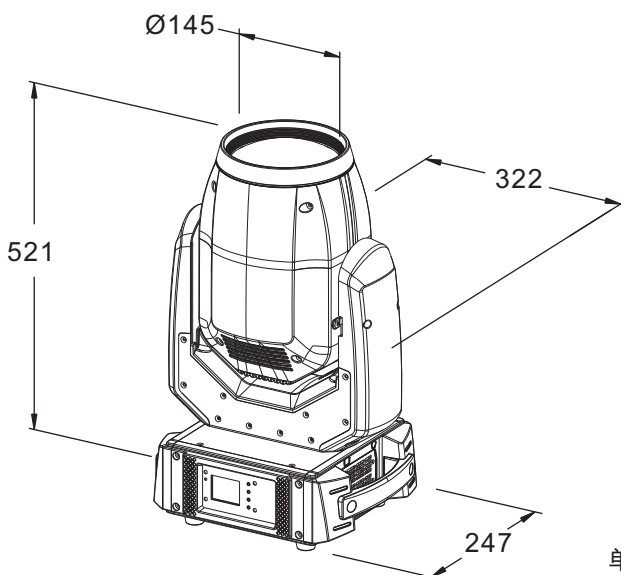
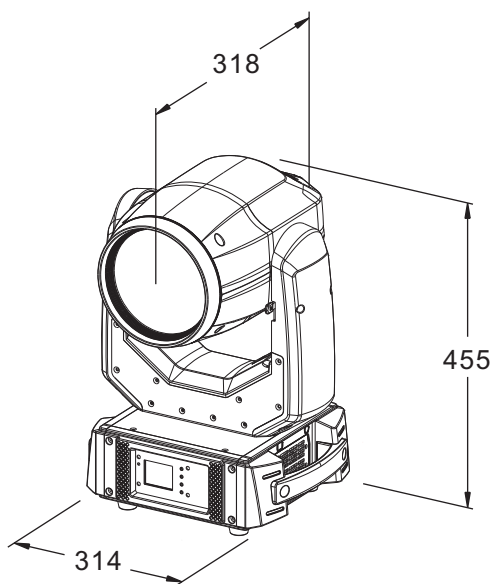


### CONTROL PANEL

- 10. MODE button
- 11. UP button
- 12. Status indicator lamp
- 13. DOWN button
- 14. ENTER button
- 15. Display
- 16. WDMX Wire (Optional)



## 6.Dimension



单位：(MM)

## 7.Display control

### 7.1 Navigation in the Menu

Using the buttons or touch screen, 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 ENTER button, the 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. Set a time 1 to 10 minutes automatically exit menu interface and close the screen.

### 7.2 Display Operation

Put through power supply, open the power switch of lamps and lanterns, display show the company LOGO website. According to the main interface, as shown in figure:

In the main interface, press "MODE" button to view the software version, press the "UP" "DOWN" can modify the DMX address.

Main interface;



## 7.3 Unit Menu

Address	DMX Address	001-XXX		
	Channel Mode	Mode 1 * 1-16 Mode 2 1-12		Default: Mode 1
	Fixture Id	Close/001-999		
	ON DMX	Close		Default: Hold
		Hold *		
		Static		
		Program 1/2/3		
Information	Dmx Input	Wired Input		Default
		Wireless Input	use it under the module with Wireless	
		Wireless In/XLR out		
	Fixture Times	Resettable xxxxH xxM Total xxxxH xxM	Clear	
	Error List			
Personality	DMX Values			
	DMX Diagnosis			
	System Information			
	Pan Invert	ON/OFF *		Default: OFF
	Tilt Invert	ON/OFF *		Default: OFF
	Feedback	ON */OFF		Default: ON
	Dim.Curve	Liner *		Default:Liner
		S Curve		
		Inv SQ		
		Square		
	Screen Time	OFF		Default:2 Min.
		1 Min.		
		2 Min. *		
		5 Min.		
		10 Min.		
	Auto Screen	ON/OFF *		Default:OFF
	Fan Mode	Auto *		Default:Auto
		High		
		Silence		
	Boot Mode	Auto *		Default:Auto
		DMX		
		Static		
		Program 1/2/3		
	Language	English 中文		
	Wireless	ON/OFF *		Default:OFF
	RDM	ON/OFF *		Default:ON
Stand-Alone	Test Sequence	Run */Stop		
	M/S	Master		Default:Slave
		Slave *		
	Static Mode	Pan	0-255	
		Tilt	0-255	
		Colour	0-255	
		Gobo	0-255	
		Prism	0-255	
		Prism 1 RT	0-255	
		Prism 2 RT	0-255	
		Frost	0-255	
		Focus	0-255	
		Strobe	0-255	
		Dimmer	0-255	
	Program Edit	Program	1/2/3	
		Step	01-30	

Stand-Alone	Program Edit	Reset	Reset Step	
			Reset Prg	
			Reset Def.	
		Fade Time	0-999	
		Hold Time	0-999	Default:010
		Pan	0-255	
		Tilt	0-255	
		Colour	0-255	
		Gobo	0-255	
		Prism	0-255	
		Prism 1 RT	0-255	
		Prism 2 RT	0-255	
		Frost	0-255	
		Focus	0-255	
		Strobe	0-255	
		Dimmer	0-255	
Service	Program Play	Program	1/2/3	
	Reset	Pan/Tilt/Focus/Colour/Gobo/Other		
	Calibrations	Input Password:0088	Pan/Tilt/Focus/Prism1/Prism2/Forst/Colour/Gobo	
	Factory Default	Yes		

## 8.DMX protocol

Mode1	Mode2	Fade Type	Function	Dmx Value
1	1	Pan	Pan	0-255
2		Pan Fime (16BIT)	Pan Fime	0-255
3	2	Tilt	Tilt	0-255
4		Tilt Fime (16BIT)	Tilt Fime	0-255
5	3	Colour	Continual positioning	
			Empty position	0
			colour 1	9
			colour 2	18
			colour 3	26
			colour 4	35
			colour 5	43
			colour 6	52
			colour 7	60
			colour 8	69
			colour 9	77
			colour 10	86
			colour 11	94
			colour 12	103
			colour 13	111
			colour 14	120
			Empty	128-129
			Positioning	
			colour 1	130-133
			colour 2	134-137
			colour 3	138-141
			colour 4	142-145
			colour 5	146-149
			colour 6	150-153
			colour 7	154-157
			colour 8	158-161
			colour 9	162-165

Mode1	Mode2	Fade Type	Function	Dmx Value
5	3	Colour	colour 10	166–169
			colour 11	170–173
			colour 12	174–177
			colour 13	178–181
			colour 14	182–185
			Empty	186–189
			Continuous colour rotation at linearly variable speed from fast to slow	190–215
			Stop rotation	216–217
			Continuous colour rotation at linearly variable speed from slow to fast	218–243
			Stop rotation	244–249
			Auto random colour selection from fast to slow	250–255
6	4	Static gobo wheel	Open/hole	0–3
			Positioning	
			Gobo 1	4–9
			Gobo 2	10–15
			Gobo 3	16–21
			Gobo 4	22–27
			Gobo 5	28–33
			Gobo 6	34–39
			Gobo 7	40–45
			Gobo 8	46–51
			Gobo 9	52–57
			Gobo 10	58–63
			Beam reducer 1	64–69
			Beam reducer 2	70–75
			Beam reducer 3	76–81
			Beam reducer 4	82–87
			Shaking gobos from slow to fast	
			Gobo 1	88–95
			Gobo 2	96–103
			Gobo 3	104–111
			Gobo 4	112–119
			Gobo 5	120–127
			Gobo 6	128–135
			Gobo 7	136–143
			Gobo 8	144–151
			Gobo 9	152–159
			Gobo 10	160–167
			Beam reducer 1	168–175
			Beam reducer 2	176–183
			Beam reducer 3	184–191
			Beam reducer 4	192–199
			Open/hole	200–201
			Backwards gobo wheel rotation from fast to slow	202–221
			No rotation	222–223
			Forwards gobo wheel rotation from slow to fast	224–243
			Auto random gobo selection from fast to slow	244–255
7	5	Prism	Open position	0–9
			Prism 1–facet circular rotating prism–rotation	10–91
			Prism 2–facet circular rotating prism–rotation	92–173
			Prism 1+Prism 2–facet circular rotating prism–rotation	174–255
8	6	Prism 1 rotation and indexing	No rotation	0
			Backwards prism rotation from fast to slow	1–127
			No rotation	128–129
			Forwards prism rotation from slow to fast	130–255



Mode1	Mode2	Fade Type	Function	Dmx Value
9	7	Prism 2 rotation and indexing	No rotation	0
			Backwards prism rotation from fast to slow	1-127
			No rotation	128-129
			Forwards prism rotation from slow to fast	130-255
10	8	Forst	Frost from 0% to 100%	0-255
11	9	Focus	Continuous adjustment from far to near	0-255
12		Focus fine	Fine focusing	0-255
13	10	Strobe	Shutter closed	0-31
			Shutter open	32-63
			Strobe-effect from slow to fast	64-95
			Shutter open	96-127
			Opening pulse in sequences from slow to fast	128-143
			Closing pulse in sequences from fast to slow	144-159
			Shutter open	160-191
			Random strobe-effect from fast to slow	192-223
			Shutter open	224-255
14	11	Dimmer	Dimmer 0-100%	0-255
15		Dimmer Fime (16BIT)	Dimmer Fime	0-255
16	12	Functions	Reserved	0-139
			To activate following functions, stop in DMX value for at least 5 seconds:	
			Pan/Tilt reset	140-149
			Colour system reset	150-159
			Gobo wheels reset	160-169
			Focus/Prism reset	170-179
			Total reset	180-189
			Reserved	190-255

## 9.Maintance and cleaning

**DANGER:Disconnect from the mains before starting any maintenance work.**

### LED

Turn off the LED first to better protect the device when the fixture is turned off. Turn off the power after running for at least 5 minutes

Don't touch the bulb with your hands. Once contacting with your hands, scrub with alcohol and then dry with linen.

When the light is on, the bulb runs at high pressure,so there is a risk of broken.It is related to the duration of using, temperature and unreasonable operation. Therefore, please do not use lamp over the life span.

The using of LED should not exceed 30000 hours, otherwise it can damage device. Check the running time of the fixture regularly.When the LED is used around 30000 hours, We strongly recommend that you change the lamp.After replacing it,the used time of LED can be removed and reset.

Avoid operating in dirty and dusty environment, clean and maintain lamps regularly. Wipe the outside of the lens at least every 20 days. Wipe the internal fan at least every 30 days

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 circum stances should alcohol or solvents be used!

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 usinga vacuum-cleaner or an air-jet.

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

Please disconnect the power supply before replacing the fuse and bulb. When replacing them, adopt the same mode.

## **10.Electric equipment specification**

### **10.1 Electrical paramters**

SOURCE:80W LED +10W

POWER:200W

VOLTAGE:AC100-240V 50/60HZ

Color temperature: 8000K

### **10.2 Weight and dimensions**

Dimensions : 322X247X521mm

NET WEIGHT:16Kg

Dimensions (Carton package) : 606X410X415mm

WEIGHT (Carton package) : 20Kg

### **10.3 Channel Characteristics**

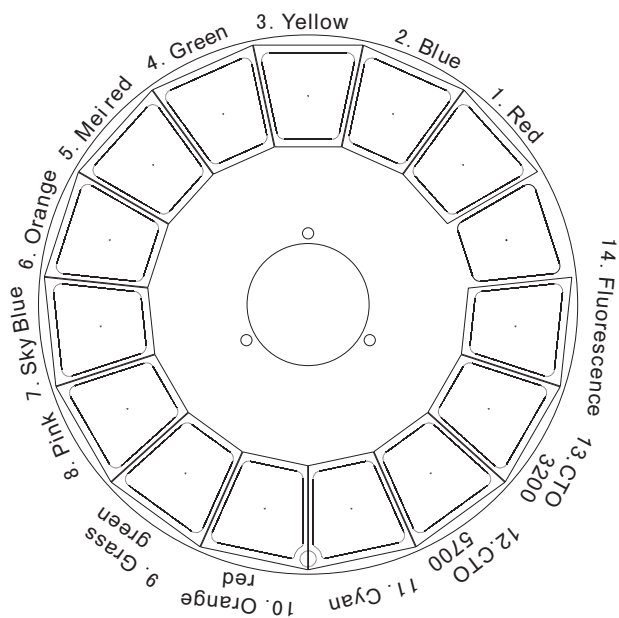
- 1.Channel:16、12 DMX-512.
- 2.Scan: Pan540° ,Tilt270° ,Scan speed adjustable.Fixture could auto reset.
- 3.Colour wheel: one open+14colors.half-color effects.
- 4.Gobo wheel:one open+14 gobos.
- 5.Prism system:2 rotating of faces.
- 6.Focus:linear focus .
- 7.Forst:linear Forst .
- 8.Demmer:linear dimmer.
- 9.Strobe:electronic strobe,with strobe mode of synchronistical,pulse and random.

### **10.4 Menu Function**

- 1.Touch screen, English/Chinese menu.
- 2.Each DMX Value displayable.
- 3.Time of automatic turning off is able to set on the display,when operating pan/tilt,Color and gobos, strobe are turn off and able to set freely.
- 4.Display the time using of lighting feature and lamp as well as the times of turning on for lamp.
- 5.You can switch on and off the lamp via the control panel or via your DMX controller. It must be noted that it has to be cold before re-stricking.
- 6.After the DMX signal is disconnected, the display will be bright and dark.
- 7.Software upgrade function.



## 10.7 Color wheel











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<http://www.jollylighting.com>

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