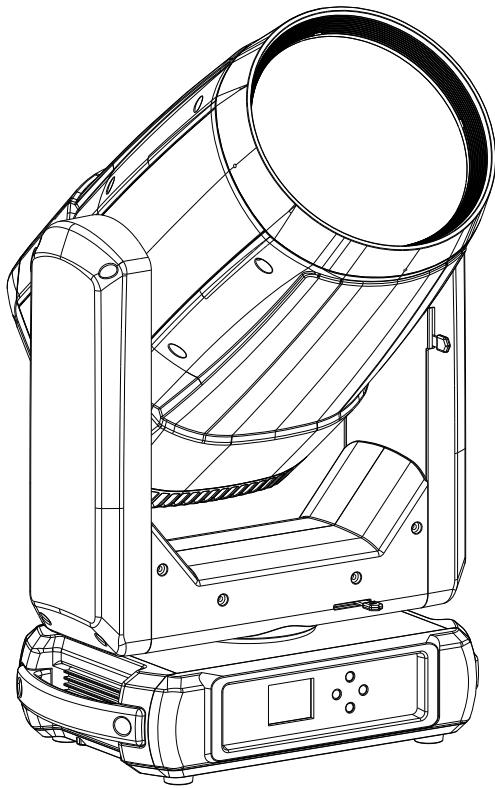


# **X-6 Beam IP**

## **USER MANUAL**



Version:1.1





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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 refere this manual's relative instruction when using this equipment.

## 1. Open-Package guidelines

This equipment is made of new style, high intensity plastic. It fully shows the modern times light characteristic 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

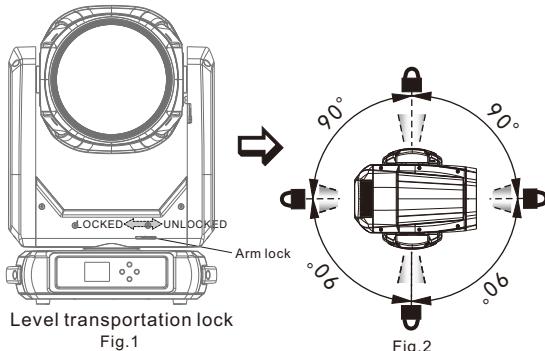
### 1.1 Package

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 pan and tilt before operating fixture

Packing the fixture

1. Disconnect the fixture from power and allow it to cool.
2. Lock arms as figure. - Fig.1 (PAN Mechanism Lock and Release (every 90°) - Fig.2)
3. Place the fixture in the bottom of the flight case, and cover the case without forcing.



Level transportation lock

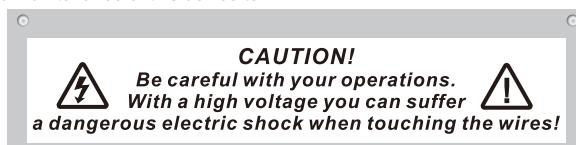
Fig.1

Fig.2

## 2. Safety instructions

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

- Be qualified
- Follow the instructions of this manual.



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 suer that the power-switch is set to off-position before you connections with themains with particular caution!
- Make sure that the power-cord is never crimped or damaged by sharp edges.Check the decice 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)!



- Minimum distance of illuminated objects  
The projector needs to be positioned so that the objects hit by the beam of light are at least 18 metres from the lens of the projector.



- Maximum ambient temperature  
Do not operate the fixture if the ambient temperatuer(Ta) exceeds 45° C (113° F).



- Temperature of the external surface  
The maximum temperature that can be reached on the external surface of the fitting,in a thermally steadystate, is 90°C (194°F).



- IP66 protection rating  
Fully dustproof with protection against powerful high-pressure water impact,suitable for applications exposed to heavy rain and intense water spraying.



- Mounting surfaces  
Must be mounted on a solid surface,allowing installation on a generally combustible surface.



- Indoor use only
- Not suitable for household illumination



- Photobiological Safety  
CAUTION. 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.  
The fixture must be positioned so that the minimum distance between the front lens and human eye is at least 3metres to prevent personal photobiological risks.



- Install  
The equipment must be installed away from flammable and explosive materials.The minimum distance between all surfaces of the luminaire and combustible materials is 0.5m .



- The products to which this manual refers comply with the European Directives pursuant to:
  - Safety of electrical equipment supplied at low voltage (LVD)  
EN 60598-1:2015  
EN 60598-2-17:1989+A2:1991
  - Electromagnetic Compatibility (EMC)  
EN 55015:2013/A1:2015  
EN 61000-3-2:2014  
EN 61000-3-3:2013  
EN 61547:2019
  - Restriction of the use of certain hazardous substances (RoHS)  
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

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

**Important!** Overhead rigging requires extensive planning 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!

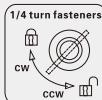
Before rigging make sure that the installation area can hold a minimum point load of 10 times the projector's weight.

The projector can be placed directly on the stage floor or rigged in any orientation on atruss 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 carabiners. 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.



#### DISCONNECT SUPPLY BEFORE REMOVING ANY COVER

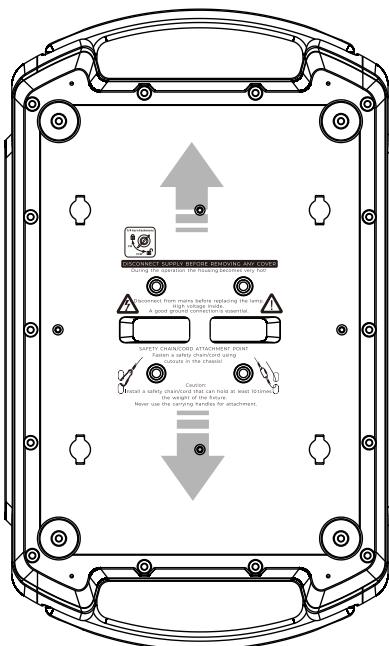
During the operation the housing becomes very hot!

Disconnect from mains before replacing the lamp.



High voltage inside.

A good ground connection is essential.



#### 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.

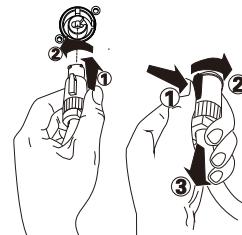


### 4.3 Power supply connection and cut off

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 on 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.

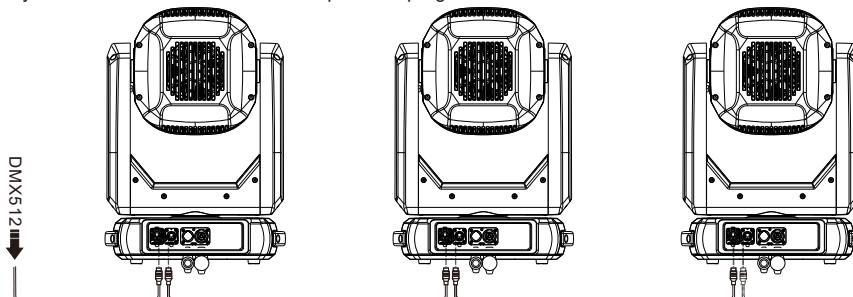


**⚠ Warning:** please verify the power of the power supply equipment prior to the connection! Earth wire must be grounded!

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.

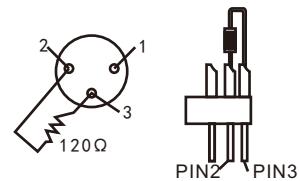
DMX output      DMX input  
3-pin XLR socket    3-pin XLR socket



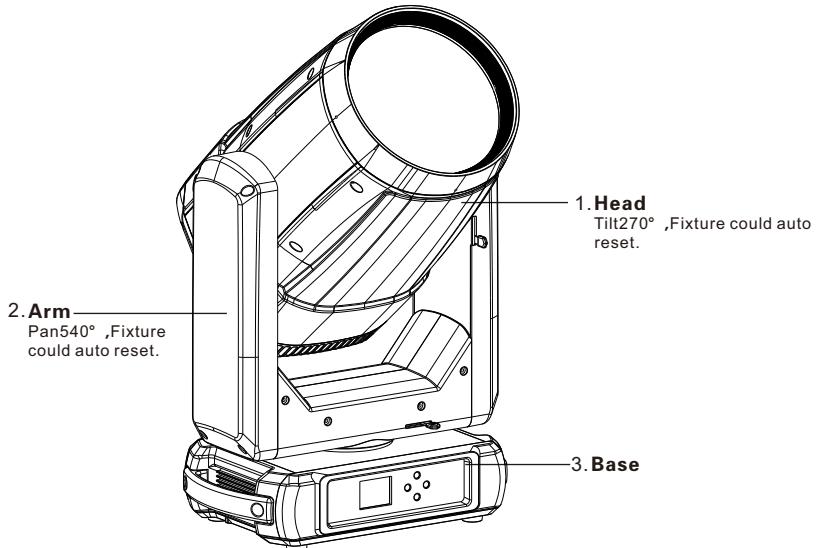
1: Ground  
2: Signal (-)  
3: Signal (+)

### 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.

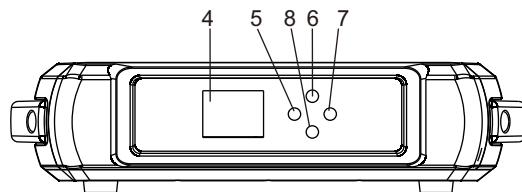


## 5. Description of the device



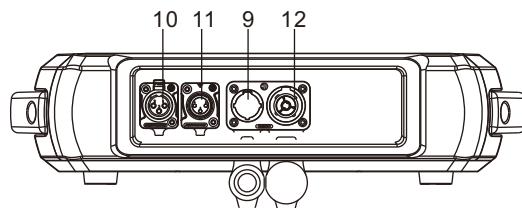
### CINTROL PANEL

- 4. Display
- 5. MODE button
- 6. UP button
- 7. ENTER button
- 8. DOWN button

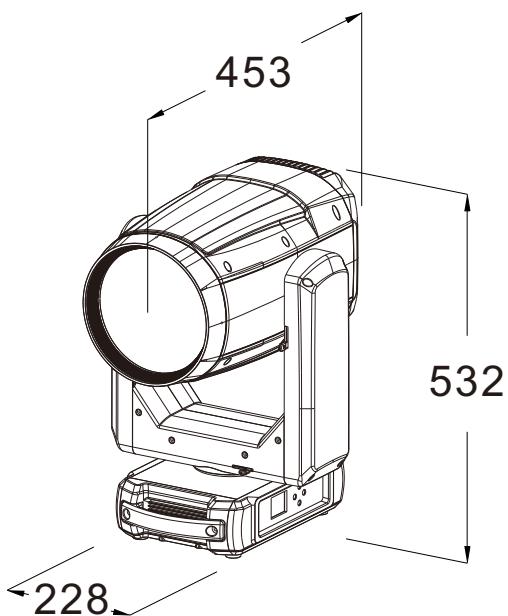
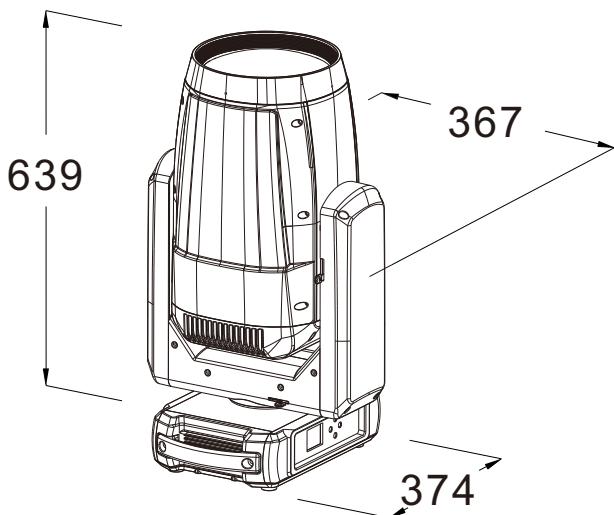


### BACK PANEL

- 9. Power-IN
- 10. 3-pin XLR female
- 11. 3-pin XLR male
- 12. Power-OUT



## 6. Dimension



Unit : (mm)

## 7. Display control

### 7.1 Navigation in the Menu

Using the buttons, and this can be simply and easily set the address code and function 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.

### 7.2 Menu Maps

DMX Setup	DMX Address	001*-XXX	
	Channel Mode	Mode1*/2/3	
		Wire In*	
		Wireless In	
	Dmx In	WL IN / XLROUT	
		Ethernet In	
		EIN / XLROUT	
	No DMX	Hold*	
		Close	
		Static	
		Mode	ART-NET*
			sACN
	Ethernet	ART-NET Universe	000-255
		sACN Universe	001-512
Information			002.*.*.*
			010.*.*.*
			Custom
			255.255.255.000
		Mask Address	
	Fixture Time	Resettable	Clear
		Total	Input password:****
Personality	Lamp Time	Resettable	Clear
		Total	Input password:****
	Lamp Strikes	Resettable	
		Total	
	Error List		
DMX Values	DMX Values		
	Lamp Settings	Lamp ON With Power	ON / OFF*
		Lamp ON via DMX	ON* / OFF
		Lamp OFF via DMX	ON* / OFF
		Lamp On/Off	OFF / ON
	PAN Invert	ON / OFF*	
	TILT Invert	ON / OFF*	
	Feedback	ON* / OFF	
	Blackout Settings	Blackout Enable	ON / OFF*
		While P/T Moving	ON / OFF*
		While Gobo Moving	ON / OFF*
		While Colour Moving	ON / OFF*
		Screen Time	OFF / 1Min. / 2Min. */ 5Min. / 10Min.
	Auto Screen	ON/OFF*	
	RDM	ON*/OFF	
	Ethernet	ON/OFF (password:0921)	
	Wireless	ON/OFF (password:0921)	
	Language	English / 中文	

Manual	Pan	0-255	
	Tilt	0-255	
	Colour	0-255	
	C	0-255	
	M	0-255	
	Y	0-255	
	<b>Static Gobo</b>	0-255	
	Prism	0-255	
	Prism1 RT	0-255	
	Prism2 RT	0-255	
	Frost	0-255	
	Focus	0-255	
	Strobe	0-255	
	Dimmer	0-255	
Service	Reset	Pan/Tilt	
		Colour	
		Gobo	
		Optics	
		Dimmer	
		ALL	
	Calibrations	Pan	0-128°-255
		Tilt	0-128°-255
		Focus	0-128°-255
		Prism1	0-128°-255
		Prism2	0-128°-255
		Frost	0-128°-255
		Colour	0-128°-255
		<b>Static Gobo</b>	0-128°-255
		Shutter	0-128°-255
		C	0-128°-255
		M	0-128°-255
		Y	0-128°-255
	Factory Default	Yes	

## 8.DMX protocol

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
1	1	1	Pan	Pan 0° → 540°	0-255
2	*	2	Pan Fine	Pan Fine	0-255
3	2	3	Tilt	Tilt 0° → 270°	0-255
4	*	4	Tilt Fine	Tilt Fine	0-255
5	3	5	Colour	Continual positioning	
				Empty position	0
				Empty → Colour 1	9
				Colour 1 → Colour 2	18
				Colour 2 → Colour 3	27
				Colour 3 → Colour 4	36
				Colour 4 → Colour 5	45
				Colour 5 → Colour 6	54
				Colour 6 → Colour 7	63
				Colour 7 → Colour 8	72
				Colour 8 → Colour 9	81
				Colour 9 → Colour 10	90
				Colour 10 → Colour 11	99
				Colour 11 → Colour 12	108
				Colour 12 → Colour 13	117
				Colour 13 → Colour 14	126
				Empty	127-129
				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
				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
				Random colour from fast to slow	244-255
*	*	6	Colour Fine	Colour Fine 0 → 100%	0-255
6	4	7	Cyan	Cyan 0 → 100%	0-255
7	5	8	Magenta	Magenta 0 → 100%	0-255
8	6	9	Yellow	Yellow 0 → 100%	0-255
9	7	10	Static gobo wheel	Open/hole	0-3
				Positioning	
				Gobo 1	4-8
				Gobo 2	9-13
				Gobo 3	14-18
				Gobo 4	19-23
				Gobo 5	24-28
				Gobo 6	29-33
				Gobo 7	34-38
				Gobo 8	39-43
				Gobo 9	44-48
				Gobo 10	49-53
				Gobo 11	54-58
				Gobo 12	59-63
				Gobo 13	64-68
				Gobo 14	69-73
				Gobo 15	74-78
				Gobo 16	79-83
				Gobo 17	84-87
				Shaking gobos from slow to fast	
				Gobo 1	88-94
				Gobo 2	95-101
				Gobo 3	102-108
				Gobo 4	109-115

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
9	7	10	Static gobo wheel	Gobo 5	116-122
				Gobo 6	123-129
				Gobo 7	130-136
				Gobo 8	137-143
				Gobo 9	144-150
				Gobo 10	151-157
				Gobo 11	158-164
				Gobo 12	165-171
				Gobo 13	172-178
				Gobo 14	179-185
				Gobo 15	186-192
				Gobo 16	193-199
				Gobo 17	200-206
				Open/hole	207-213
				Backwards gobo wheel rotation from fast to slow	214-233
				No rotation	234-235
				Forwards gobo wheel rotation from slow to fast	236-255
10	8	11	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
11	9	12	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
12	10	13	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
13	11	14	Forst	Frost from 0% to 100%	0-255
14	12	15	Focus	Continuous adjustment from far to near	0-255
15	*	16	Focus fine	Fine focusing	0-255
16	13	17	Strobe	Shutter closed ( Lamp power reduced to 230 W)	0-31
				Shutter open, Full lamp power	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 closed	160-191
				Random strobe-effect from fast to slow	192-223
				Shutter open, Full lamp power	224-255
				Dimmer 0-100%	0-255
17	14	18	Dimmer	Dimmer 0-100%	0-255
18	*	19	Dimmer Fine	Dimmer Fine	0-255
19	15	20	Power/Special functions	Reserved	0-19
				Function is active only 10 seconds after switching fixture on.	
				Eco mode ( Lamp power 230W)	20-24
				Standard mode (Lamp power 280W)	25-29
				Colour speed mode	30-34
				Colour time mode	35-39
				Gobo speed mode	40-44
				Gobo time mode	45-49
				Pan/Tilt speed mode	50-54
				Pan/Tilt time mode	55-59
				Reserved	60-69
				Blackout while pan/tilt moving	70-79
				Disabled blackout while pan/tilt moving	80-89
				Blackout while colour wheel moving	90-99
				Disabled blackout while colour wheel moving	100-109
				Blackout while gobo wheel moving	110-119
				Disabled blackout while gobo wheel moving	120-129
				To activate following functions, stop in DMX value for at least 3 seconds.	
				Lamp On/reset(total reset except pan/tilt reset)	130-139
				Pan/Tilt reset	140-149
				Colour system reset	150-159
				Gobo wheels reset	160-169
				Dimmer/Shutter	170-179
				Focus/Prism reset	180-189
				Reserved	190-199
				Total reset	200-209
				Reserved	210-229

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
19	15	20	Power/Special functions	Lamp Off Reserved	230-239 240-255
20	*	21	Pan-Tilt time	Pan – Fine Pan – Tilt – Tilt Fine	0-255
21	*	22	Colour time	Colour	0-255
22	*	23	Gobo time	Static Gobo	0-255

## 9. Maintenance and cleaning

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

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!

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.

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.

Maintenance and maintenance of the operation, please contact the manufacturer or distributor.

## 10. Electric equipment specification

### 10.1 Electrical parameters

SOURCE: Osram Sirius HRI 520WS

Max POWER: 700W

VOLTAGE: AC100-240V 50/60HZ

Color temperature: 7500K

### 10.2 Weight and dimensions

Dimensions : 374X228X639mm

NET WEIGHT: 27.2Kg

### 10.3 Channel Characteristics

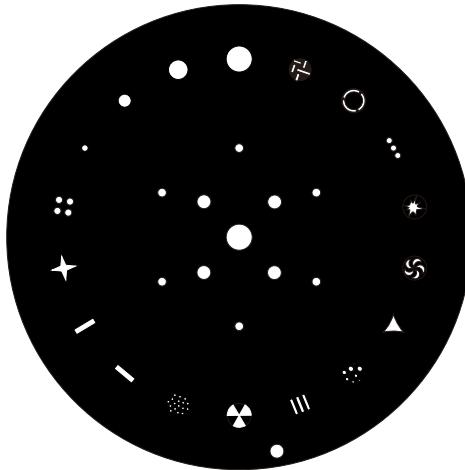
1. Channel: 22/15/23 DMX-512.
2. Scan: Pan 540°, Tilt 270°, Scan speed adjustable. Fixture could auto reset.
3. Colour wheel: One open+14colors.
4. Static Gobo wheel: one open+17 GOBOS.
5. Prism Wheel : 1 8-facet prism, 1 24-facet prism.
6. Demmer: linear dimmer.
7. Focus: linear focus.
8. Forst: linear forst.
9. Shutter: Double motor stroboscopic, electronic shutter, random strobe.

### 10.4 Menu Function

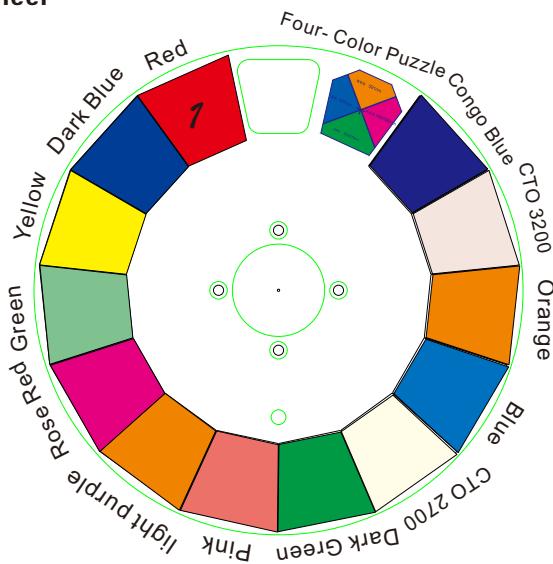
1. Color screen, Chinese /English menu.
2. Each DMX Value displayable.
3. Monitor could ON/OFF automatically.
4. Show fixture, lamp use time.
5. Lamp on/off when power on.
6. When dimmer is closed, It supports energy saving mode, power consumption of the bulb will be 80% less, which will prolong lifetime of the bulb and make it more stable

7. 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.
8. DMX signal after disconnecting display brightness alternately.
9. Remote ON by DMX.
10. Software upgrade function.

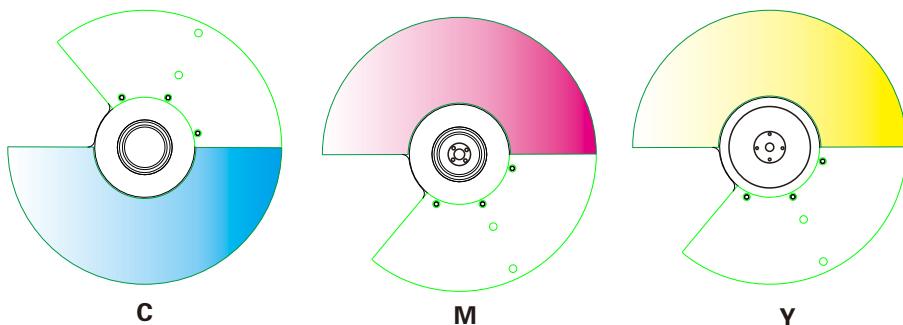
## 10.5 Gobo wheel



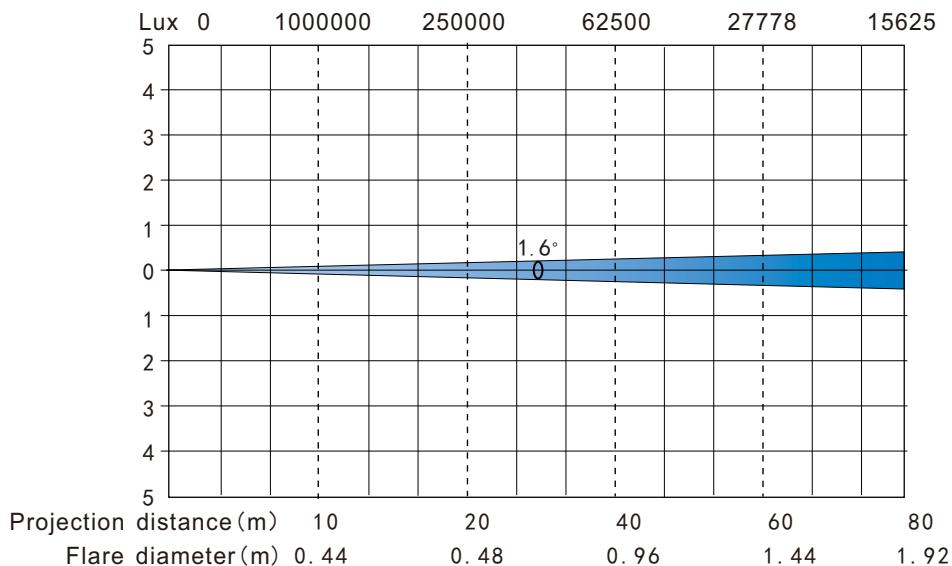
## 10.6 Color wheel



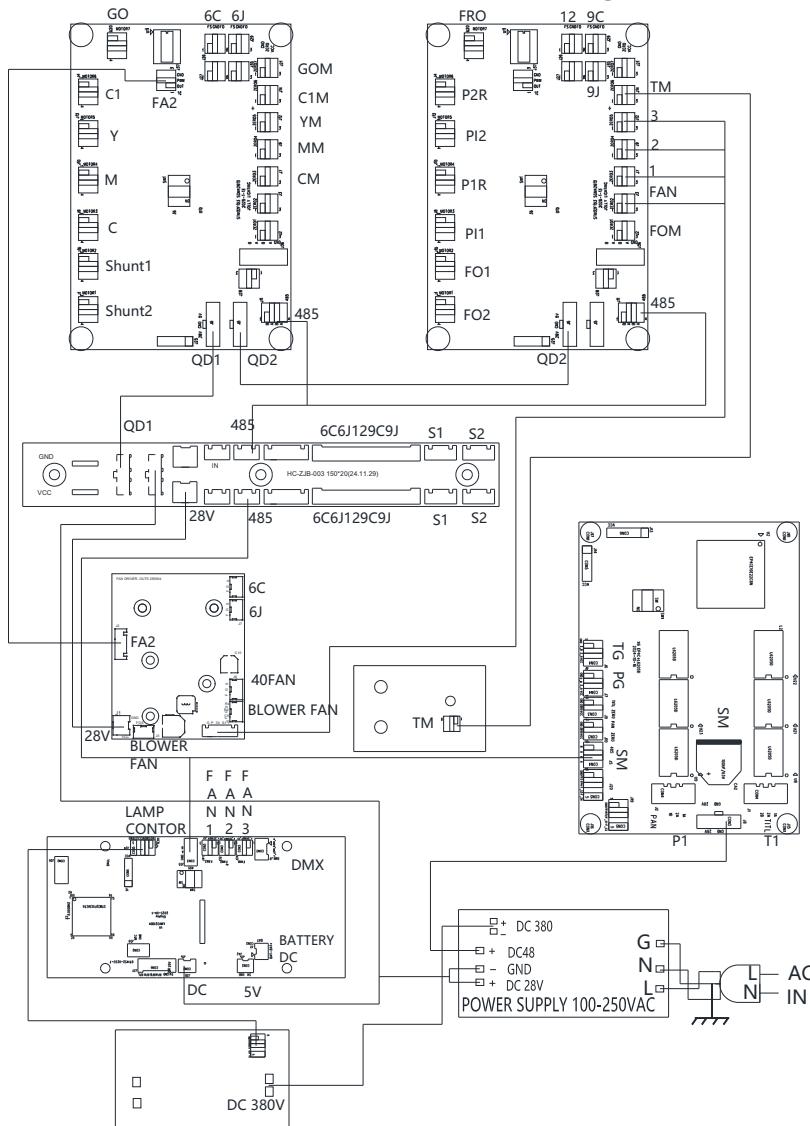
CMY



**10.7 light table**



## 11. Electronic drawing



**Note: The above contents for reference only and is subject to change without prior notice, please take specification you have on hand and our company reserves the final right of interpretation.**







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