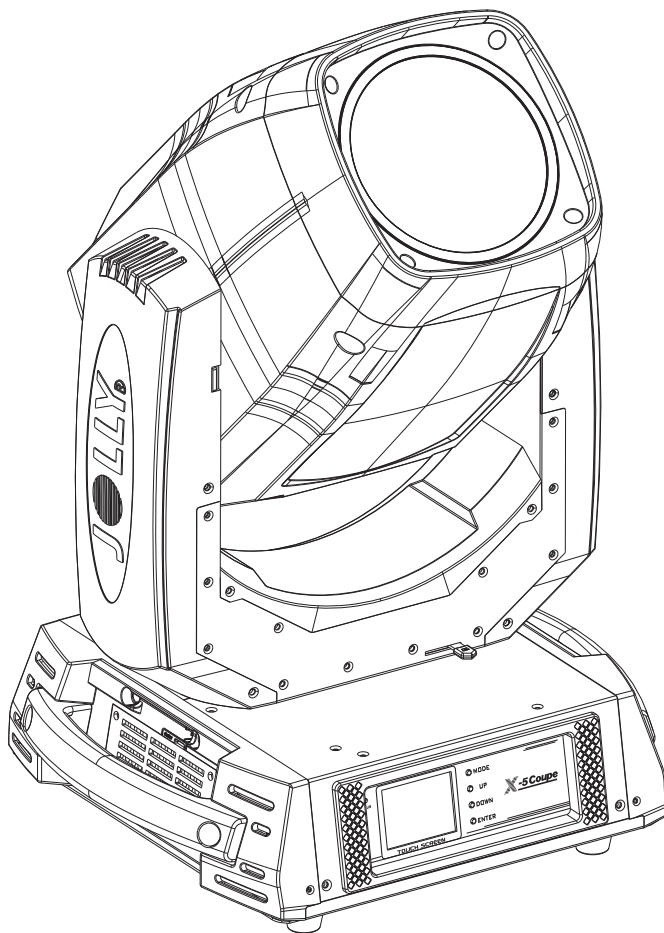


# ***X-5 Coupe***

## ***USER MANUAL***



Version:1.0





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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 refer to 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 modem times light charac teristic with teristic with beauty struture. And it is made accord to CE standard. Fully agree with the internation 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.Safaty cable-1PC  |
| 3.User Manval-1PC  | 4.Omega holder-2PCS |
| 5.Power cable-1PC  | 5.Service card-1PC  |

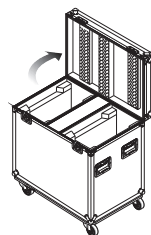
### 1.1 Package

Unpacking the fixture

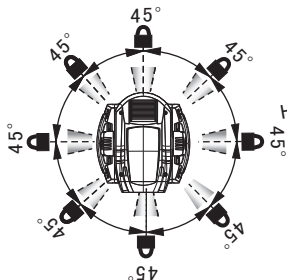
- 1.Open the flight case cover- Fig.1
- 2.With one person on each side, lift the fixture out of the flight case.
- 3.Unlock pan and tilt before operating fixture.

Packing the fixture

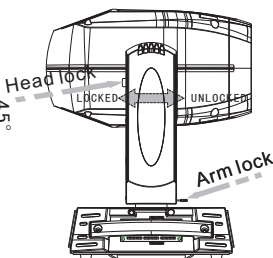
- 1.Disconnect the fixture from power and allow it to cool.
- 2.lock arms and head as figure.- Fig.2(PAN Mechanism Lock and Release (every 45°) - Fig.2-1)(Tilt Mechanism Lock and Release (every 45°) - Fig.2-2)
- 3.Place the fix ture in the bottom of the flight case, and cover the case without forcing.



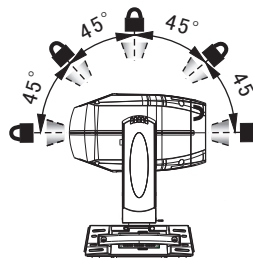
Aviation box Fig.1



PAN Mechanism Lock Fig.2-1



Level vertical transportation lock Fig.2

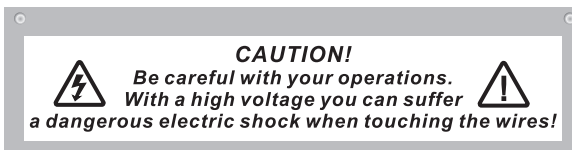


Tilt Mechanism Lock Fig.2-2

## 2.Safety instructions

Every person involvd 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 toensure 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 with themains 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)!**

- 
 ➤ **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.
- t<sub>a</sub> 40°C
  - **Maximum ambient temperature**  
 Do not operate the fixture if the ambient temperature (T<sub>a</sub>) exceeds 40°C (104°F).
- t<sub>c</sub> 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).
- IP20
  - **IP20 protection rating**  
 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**  
**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 3 metres to prevent personal photobiological risks.
- 
 ➤ **Mounting surfaces**  
 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:
  - 2006/95/EC - Safety of electrical equipment supplied at low voltage (LVD)
  - 2004/108/EC - Electromagnetic Compatibility (EMC)
  - 2011/65/EU - Restriction of the use of certain hazardous substances (RoHS)
  - 2009/125/EC - EcoDesign requirements for Energy-related Products (ErP)
- 
 ➤ **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.

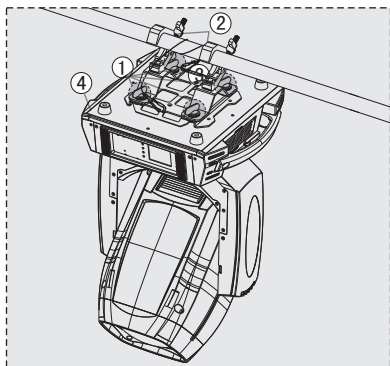
**Caution** Projectors may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the projector!

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



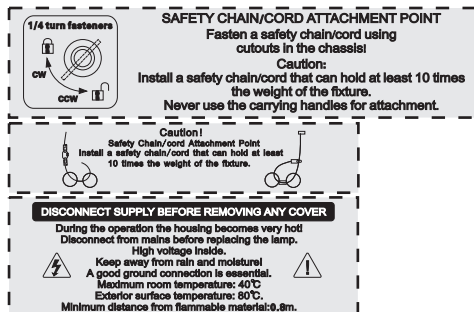
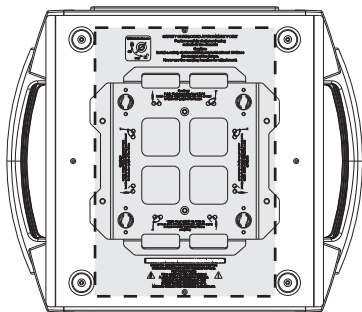
The projector can be placed directly on the stage floor or rigged in any orientation on atruss without altering its operation characteristics.

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 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 |

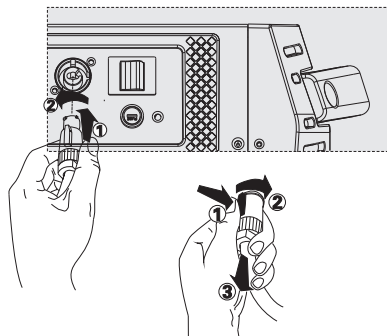


### 4.3 Power supply connection and cut off

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

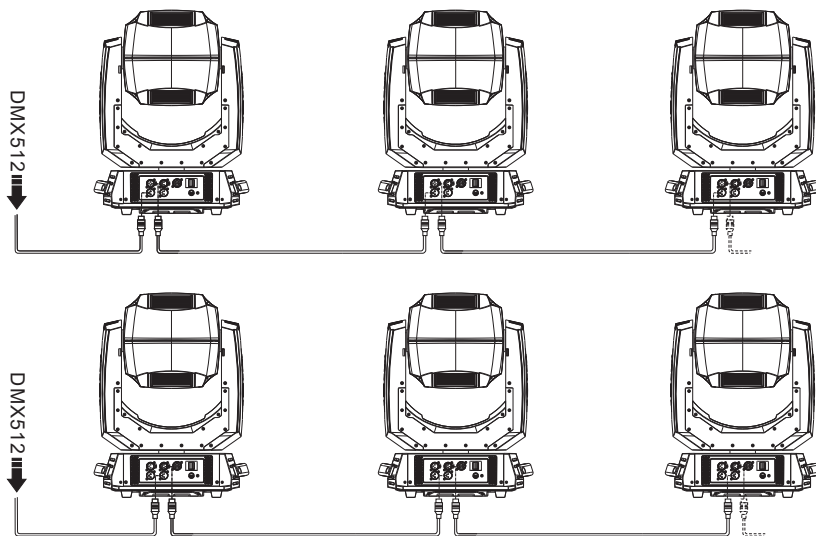
If you wish to change the power supply settings, see the chapter appendix Connect the fixture to the mains with the enclosed power cable and plug.

**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



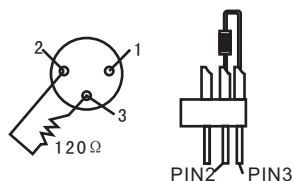
DMX input  
5-pin XLR socket



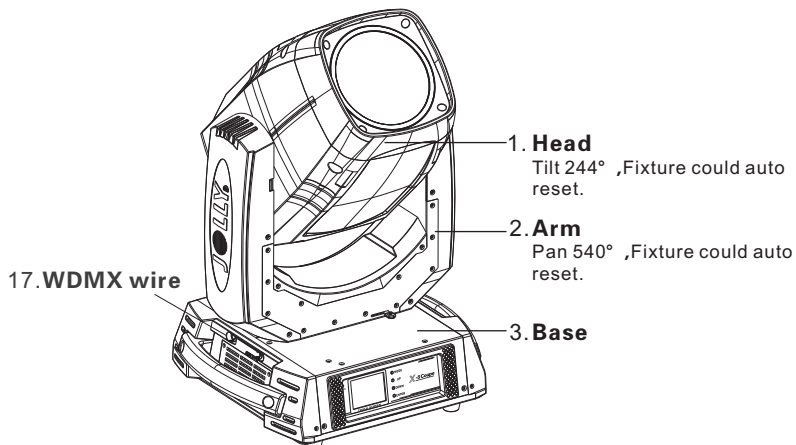
1: Ground  
2: Signal (-)  
3: Signal (+)  
4: N. A.  
5: N. A.

### 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  $120\Omega$  resistor connected between pins 2 and pins 3, which is then plugged into the output XLR socket of the last fixture in the chain.

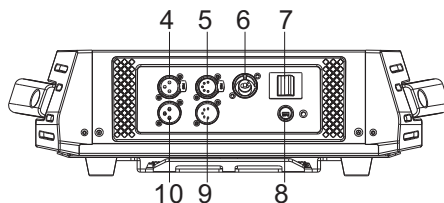


## 5.Description of the device



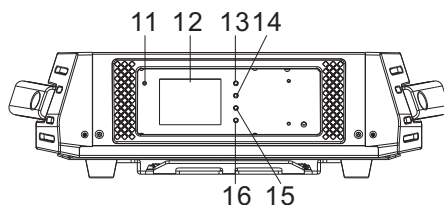
### BACK PANEL

- 4. 3-pin XLR female
- 5. 5-pin XLR female
- 6. Power-in
- 7. Power switch
- 8. Main Fuse
- 9. 5-pin XLR male
- 10. 3-pin XLR male

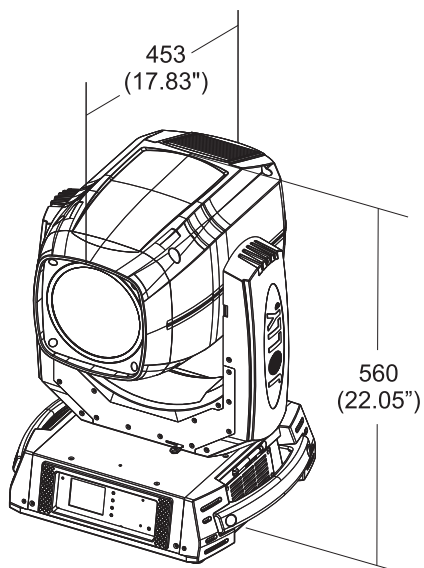
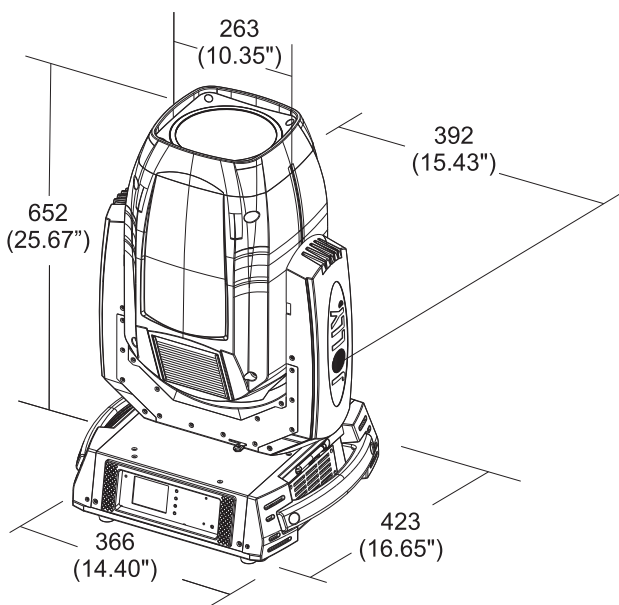


### CONTROL PANEL

- 11. Status indicator lamp
- 12. Touch screen (LCD display)
- 13. MODE button
- 14. UP button
- 15. DOWN button
- 16. ENTER button
- 17. WDMX Wire



## 6.Dimension



## 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).

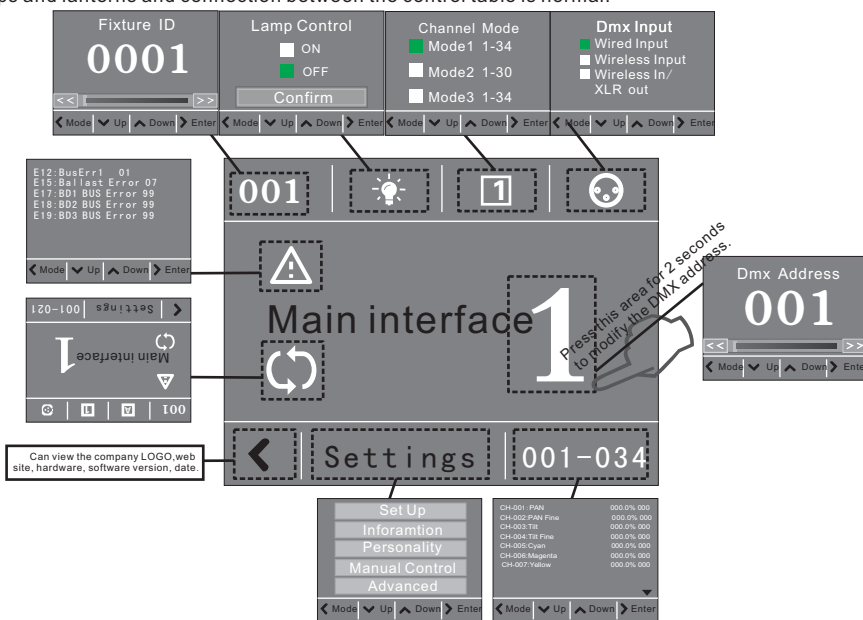
Press the MODE button to return to menu. Set a time 0 to 10 minutes automatically exit menu interface and close the screen.

### 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.

If the screen "⦿" icon is green, said DMX signal connection is normal, this state can be used to check the lamps and lanterns and connection between the control table is normal.



This lamp can be set to turn off the automatic flip screen function, touch this "⦿" icon can be manually flip screen.

Click on the main interface of the icon, numerical to view view Settings related information of lamps and lanterns. Symbols such as the main interface appear "Δ", the following error message indicates that there might be a lamps and lanterns, can click to view and control information content to modify the lamps and lanterns.

CODE	ERRO INFO	CHECK MEASUREMENT	NOTE
E01	SpiFlashError	Check the welding of memory IC	RESET ERROR
E02	Program Err 1	Check the welding of Chip	
E03	Program Err 2	Check the welding of master IC EP3C	
E04	MBDInit Error	Check the communication signal 485& 485 chip & memory IC	
E05	BD1Init Error		
E06	BD2Init Error		
E07	BD3Init Error	Check main cable ABAB ( 485 ) chip	
E12	BusErr1		
E13	BusErr2		
E14	SPDError	Check the welding of master IC	
E16	MFpga Error	Check the communication signal& welding of communication chip	
E17	BD1 BUS Error		
E18	BD2 BUS Error		
E19	BD3 BUS Error		
E21	Pan FB. Err	Check the light coupling line, optical coupling switch and a plate of the relative position measurement	
E23	Tilt FB. Err		
E22	Pan Zero Err	Check cable of sensor, distance and location of ,magnets and sensor	
E24	Tilt Zero Err		
E25	Prism Err1		
E26	Prism Err2		
E27	Prism RtErr1		
E28	Prism RtErr2		
E29	R.Gobo Err1		
E30	R.Gobo Err2		
E31	Zomm Err		
E32	Focus Err		
E33	St.Gobo Err		
E34	Cyan Err		
E35	Magenta Err		
E36	Yellow Err		
E37	B.Fan1 Error		
E38	B.Fan2 Error		
E39	B.Fan3 Error		
E40	L.Fan1 Error	Check if the fan(80) of the lamp holder is working	
E41	L.Fan2 Error		
E42	L.Fan3 Error	Check if the blowing machine of lamp holder is working	
E43	L.Fan4 Error		
E44	GOBO Fan Error	Check the fan of head GOBO	

### 7.3 Unit Menu

			Remark
Set up	Dmx Address	001~XXX	Dmx Address
	Channel Mode	Mode1 1~34	default Mode1
		Mode2 1~30	
		Mode3 1~34	
Information	Fixture Id	0001~9999	Lamps address
	Fixture Times	XXXXX h XX m	Total working hours
	Lamp Times	Lamp On Times XXXXh XXm	Lamp On working hours
		Lamp Strike XXXX	Lamp Strike
		Reset Lamp Time	Reset Lamp Time
	Error List		Error details
	Diagnosis	BOARD 1: XX.XX%	Diagnosis
		BOARD 2: XX.XX%	
		BOARD 3: XX.XX%	
	Fans Monitor		Fans Monitor
Personality	DMX Values		DMX Values
	Lamp	Power ON Light ON/OFF	Power ON Light (default OFF)
		Lamp On By DMX ON/OFF	Lamp On By DMX (default ON)
		Lamp ON Delay 0~60m	Lamp ON Delay (default 0m)
	Pan/Tilt	Pan Reverse ON/OFF	Pan Reverse (default OFF)
		Tilt Reverse ON/OFF	Tilt Reverse (default OFF)
		Feedback ON/OFF	Pan/Tilt Auto Switch (default ON)
	Dmx Input	Wired Input	Wired Input(default)
		Wireless Input	Wireless Input
		Wireless In/XLR out	Wireless In/XLR out
	BlackOut	P/T Moving	default OFF
		Colour Moving	default OFF
		Gobo Moving	default OFF
	Screen	Brightness	Brightness
		Screen Time out 0~10m	Screen Time out
		Touch Screen ON/OFF	Touch Screen (default OFF)
		Auto Screen ON/OFF	Auto Screen (default ON)
	Language	English	language choice
		Chinese	
Manual Control	Lamp	Lamp Control ON/OFF	Lamp Control (default OFF)
		Confirm	Confirm
	Reset	Reset ALL	
		Reset Pan/Tilt	
		Reset Colour	
		Reset Zoom	
		Reset Dimmer	
	Channel		Chanel Testing
Advanced	Demo		Results demonstrate
	Calibration	Input Password XXXX	Chanel Adgusting
	Factory Default	ON/OFF	Reset to original parameters
	Touch Calibration		Touch screen adjusting

## 8.DMX protocol

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
1	23	23	Pan	Pan	0-255
2	24	24	Pan Fime	Pan Fime	0-255
3	25	25	Tilt	Tilt	0-255
4	26	26	Tilt Fime	Tilt Fime	0-255
5	1	1	Cyan	Linear Cyan movement	0-255
6	2	2	Magenta	Linear Magenta movement	0-255
7	3	3	Yellow	Linear Yellow movement	0-255
8	4	4	Colour 1	Empty position	0
				Empty → Soft Filter	1-28
				Soft Filter	29-50
				Soft Filter → Lavender	51-80
				Lavender	81-100
				Lavender → CTO 3200K	101-129
				CTO 3200K	130-150
				CTO 3200K → CTO 2500K	151-181
				CTO 2500K	182-204
				CTO 2500K → Blue Wood(UV Filter)	105-235
				Blue Wood(UV Filter)	236-255
				Empty position	0
				Empty → Soft Filter	1-13
				Soft Filter	14-26
				Soft Filter → Lavender	27-39
				Lavender	40-52
				Lavender → CTO 3200K	53-65
				CTO 3200K	66-78
	CTO 3200K → CTO 2500K	79-91			
	CTO 2500K	92-104			
	CTO 2500K → Blue Wood(UV Filter)	105-117			
	Blue Wood(UV Filter)	118-127			
	Continuous Colour 1 at linearly variable speed from fast to slow	128-167			
	Stop rotation	168-171			
	Continuous Colour 1 at linearly variable speed from slow to fast	172-211			
	Stop rotation	212-215			
	colour effect speed from slow to fast	216-255			
5	5	Colour 2	Empty position	0	
			Empty → Dark Green	1-28	
			Dark Green	29-50	
			Dark Green → CTB	51-80	
			CTB	81-100	
			CTB → Dark Blue	101-129	
			Dark Blue	130-150	
			Dark Blue → H.M.Green	151-181	
			H.M.Green	182-204	
			H.M.Green → Dark Red	105-235	
			Dark Red	236-255	
			9		
Empty → Dark Green	1-13				
Dark Green	14-26				
Dark Green → CTB	27-39				
CTB	40-52				
CTB → Dark Blue	53-65				
Dark Blue	66-78				
Dark Blue → H.M.Green	79-91				
H.M.Green	92-104				
H.M.Green → Dark Red	105-117				
Dark Red	118-127				



Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value				
9				Continuous Colour 1 at linearly variable speed from fast to slow	128-167				
				Stop rotation	168-171				
				Continuous Colour 1 at linearly variable speed from slow to fast	172-211				
				Stop rotation	212-215				
				colour effect speed from slow to fast	216-255				
	6	6	Colour 3	Empty position	0				
				Empty → Light Green	1-28				
				Light Green	29-50				
				Light Green → PinK	51-80				
				PinK	81-100				
				PinK → Aquamarine	101-129				
				Aquamarine	130-150				
				Aquamarine → Dark Orange	151-181				
				Dark Orange	182-204				
				Dark Orange → Light Orange	105-235				
				Light Orange	236-255				
				Empty position	0				
				Empty → Light Green	1-13				
				Light Green	14-26				
				Light Green → PinK	27-39				
				PinK	40-52				
				PinK → Aquamarine	53-65				
				Aquamarine	66-78				
				Aquamarine → Dark Orange	79-91				
				Dark Orange	92-104				
				Dark Orange → Light Orange	105-117				
				Light Orange	118-127				
				Continuous Colour 1 at linearly variable speed from fast to slow	128-167				
				Stop rotation	168-171				
				Continuous Colour 1 at linearly variable speed from slow to fast	172-211				
				Stop rotation	212-215				
				colour effect speed from slow to fast	216-255				
11	13	13	Rotation Gobo Select	Rotating gobo Select					
				Empty position	0-18				
				Gobo 1	19-37				
				Gobo 2	38-56				
				Gobo 3	57-74				
				Gobo 4	75-92				
				Gobo 5	93-111				
				Gobo 6	112-129				
				Gobo Shakes at variable speed from slow to fast					
				Gobo 1	130-150				
				Gobo 2	151-171				
				Gobo 3	172-192				
				Gobo 4	193-213				
				Gobo 5	214-234				
				Gobo 6	235-255				
				12	14	14	Gobo Rotation	Gobo Indexing:0° TO 90° range	0-21
								Gobo Indexing:90° TO 180° range	21-42
								Gobo Indexing:180° TO 270° range	42-63
								Gobo Indexing:270° TO 360° range	63-84
Gobo Indexing:360° TO 450° range	84-105								
Gobo Indexing:450° TO 540° range	105-127								
Continuous gobo rotation at linearly variable speed from fast to slow	128-190								
Stop rotation	191-192								
Continuous gobo rotation at linearly variable speed from slow to fast	193-255								

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
13	15	15	Fine Gobo	Fine Gobo Rotation	0-255
14	10	10	Static gono Change	Unused Range	0-3
				Gobo 1	4-7
				Gobo 2	8-11
				Gobo 3	12-15
				Gobo 4	16-18
				Gobo 5	19-22
				Gobo 6	23-26
				Gobo 7	27-30
				Gobo 8	31-34
				Gobo 9	35-37
				Gobo 10	38-41
				Gobo 11	42-45
				Gobo 12	46-49
				Gobo 13	50-53
				Gobo 14	54-56
				Gobo 15	57-60
				Gobo 16	61-64
				Gobo 17	65-68
				Gobo 18	69-71
				Continuous gobo wheel clockwise rotation at linearly variable speed from fast to slow	72-113
				Stop rotation	114-117
				Continuous gobo wheel counter-clockwise rotation at linearly variable speed from slow to fast	118-159
				Gobo Shakes at variable speed from slow to fast	
				Gobo 1	160-165
				Gobo 2	166-170
				Gobo 3	171-175
				Gobo 4	176-181
				Gobo 5	182-186
				Gobo 6	187-191
				Gobo 7	192-197
				Gobo 8	198-202
				Gobo 9	203-207
				Gobo 10	208-214
				Gobo 11	215-218
				Gobo 12	219-223
				Gobo 13	224-229
				Gobo 14	230-234
				Gobo 15	235-239
				Gobo 16	240-245
				Gobo 17	246-250
				Gobo 18	251-255
15	11	11	Animation	Linear Animation disk insertion	0-255
16	12	12	Animation disk rotation	Continuous Animation disk clockwise rotation at linearly variable speed from fast to slow	0-124
				Stop rotation	125-130
				Continuous Animation disk counter-clockwise rotation at linearly variable speed from slow to fast	131-255
17	16	16	Prism insertion	Prism out	0-10
				Prism 1 into the light beam	11-132
				Prism 2 into the light beam	133-255
18	17	17	Prism rotation	Prism rotation:0° TO 90° range	0-21
				Prism rotation:90° TO 180° range	21-42
				Prism rotation:180° TO 270° range	42-63
				Prism rotation:270° TO 360° range	63-84
				Prism rotation:360° TO 450° range	84-105
				Prism rotation:450° TO 540° range	105-127
				Continuous Prism rotation at linearly variable speed from fast to slow	128-190

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
18	17	17	Prism rotation	Stop rotation	191-192
				Continuous Prism rotation at linearly variable speed from slow to fast	193-255
19	18	18	Frost	Focus moves linearly into the light beam	0-255
20	19	19	Zoom	Zoom linearly moves from narrow to wide beam	0-255
21	20	20	Focus	Focus moves linearly from far to near position	0-255
22	21	21	Focus Fine	Fine focus positioning	0-255
23	22	22	Eeam Mode	Zoom/Autofocus mode	0-127
				Eeam Mode	128-255
24	7	7	Stopper/ Strobe	Light OFF	0-3
				STROBE SLOW→FAST	4-103
				Light ON	104-107
				PULSATION SLOW→FAST	108-207
				Light ON	208-212
				RANDOM SLOW STROBE	213-225
				RANDOM MEDIUM STROBE	226-238
				RANDOM FAST STROBE	239-251
				Light ON	252-255
25	8	8	Dimmer	Dimmer 0-100%	0-255
26	9	9	Dimmer Fime	Dimmer Fime	0-255
27	27	27	Function	Unused Range	0-11
				Fast Pan/Tilt Speed ( default )	12-24
				Normal Pan/Tilt Speed	25-37
				normal dimmer ( default )	38-50
				linear dimmer	51-62
				CMY Full Range ( default )	63-75
				CMY Limited Range	76-87
				CMY Shortcut ON ( default )	88-101
				CMY Shortcut OFF	102-114
				Unused Range	115-234
				Disable zoom/focuslinking - 1 sec.	235-239
				Enable zoom/focus linking,near distance(8meters) (default setting) - 1 sec.	240-244
				Enable zoom/focus linking,ediumdistance(12meters) -	245-249
				Enable zoom/focus linking, far distance(20meters) - 1 sec.	250-255
28	28	28	Reset	Unused Range	0-25
				Zoom Reset -5 sec	26-76
				Pan/Tilt Reset -5 sec	77-127
				Complete Reset -5 sec	128-255
29	29	29	Lamp Control	Unused Range	0-25
				Lamp Off -5 sec	26-100
				Lamp On -5 sec	101-255
30	30	30	Macro Effects	Macro Off	0-7
				Standby	8-11
				Standby ( black )	12-15
				Zoom In Faded	16-45
				Zoom Out Faded	46-75
				Zoom In Out	76-105
				Standby ( black )	106-135
				Zoom In Faded Random	136-165
				Zoom Out Faded Random	166-195
				Zoom In Out Random	196-225
				Standby ( black )	226-255
31		31	Pan-Tilt time	Pan - Fine Pan - Tilt - Tilt Fine	0-255
32		32	Colour time	Cyan - Magenta - Yellow	0-255
33		33	Beam time	Dimmer - Frost - Prism - Focus - Zoom	0-255
34		34	Gobo time	Static Gobo - Rotating Gobo	0-255

**Time table**

BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds
0	Full	43	8.6	86	24	129		172		215	160
1	0.2	44	8.8	87		130	41	173	58	216	170
2	0.4	45	9	88		131		174		217	
3	0.6	46	9.2	89	25	132	42	175		218	
4	0.8	47	9.4	90		133		176	59	219	180
5	1	48	9.6	91	26	134	43	177		220	
6	1.2	49	9.8	92		135		178	60	221	190
7	1.4	50	10	93		136	44	179		222	
8	1.6	51	10.2	94	27	137		180	65	223	200
9	1.8	52	10.4	95		138		181		224	
10	2	53	10.6	96	28	139	45	182		225	
11	2.2	54	11	97		140		183	70	226	
12	2.4	55		98	29	141	46	184		227	210
13	2.6	56	12	99		142		185	75	228	
14	2.8	57		100		143		186		229	220
15	3	58	13	101	30	144	47	187		230	
16	3.2	59		102		145		188	80	231	
17	3.4	60	14	103	31	146	48	189		232	230
18	3.6	61		104		147		190	85	233	
19	3.8	62		105	32	148	49	191		234	240
20	4	63	15	106		149		192		235	
21	4.2	64		107		150		193	90	236	
22	4.4	65	16	108	33	151	50	194		237	250
23	4.6	66		109		152		195	95	238	
24	4.8	67	17	110	34	153	51	196		239	260
25	5	68		111		154		197	100	240	
26	5.2	69		112	35	155	52	198		241	270
27	5.4	70	18	113		156		199	110	242	
28	5.6	71		114		157		200		243	
29	5.8	72	19	115	36	158	53	201		244	280
30	6	73		116		159		202	120	245	
31	6.2	74		117	37	160	54	203		246	
32	6.4	75	20	118		161		204		247	290
33	6.6	76		119		162		205	130	248	
34	6.8	77		120	38	163	55	206		249	300
35	7	78	21	121		164		207	140	250	
36	7.2	79		122		165		208		251	310
37	7.4	80		123	39	166	56	209		252	
38	7.6	81	22	124		167		210	150	253	
39	7.8	82		125		168		211		254	
40	8	83		126	40	169	57	212			
41	8.2	84	23	127		170		213	160	255	Full
42	8.4	85		128		171		214			

## 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 440W

POWER: 700W

VOLTAGE: AC100-240V 50/60HZ

Color temperature: 7800K

### 10.2 Weight and dimensions

Dimensions : 453X423X560mm

NET WEIGHT: 27Kg

Dimensions (Carton package) : 661X506X581mm

WEIGHT (Carton package) : 33Kg

Dimensions (Air boxes -2 lights): 1010X520X780mm

NET WEIGHT/WEIGHT (Air boxes -2 lights) : 37Kg/95Kg

### 10.3 Channel Characteristics

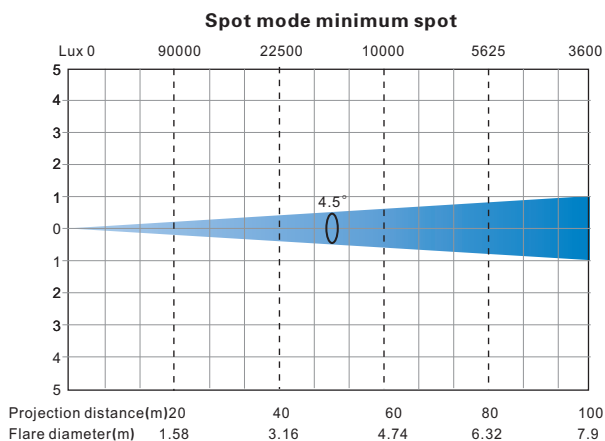
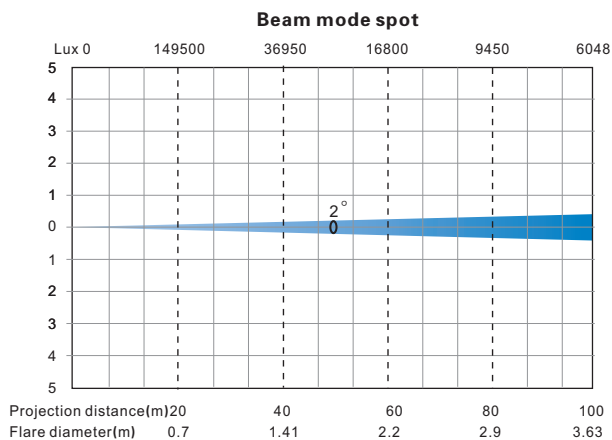
1. Channel: 34, 30, 34DMX-512.
2. Scan: Pan540°, Tilt244°, Scan speed adjustable. Fixture could auto reset.
3. Colour wheel: three open+5 colors. half-color effects, CMY function.
4. Gobo wheel: one open+6 gobos. one, Fix gobo wheel: one open+18 gobos.
5. Prism system: 1 rotating of 8 faces, 1 rotating of 4 faces.
6. Zoom: linear amplifier.
7. Focus: linear focus with auto function.
8. Dimmer: two stepper motor adjusting, linear dimmer.
9. Strobe: two stepper motor, with strobe mode of synchronistical, pulse and random.

### 10.4 Menu Function

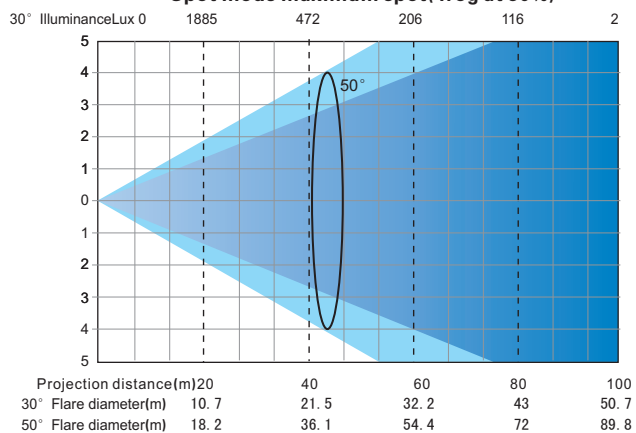
1. Touch screen, English/Chinese menu.

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. With function of turn on lamp when powered.
6. Automatic 50 % energy saving of power when turn off the strobe.
7. Remote ON by DMX.
8. 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.
9. After the DMX signal is disconnected, the display will be bright and dark.
10. Software upgrade function.

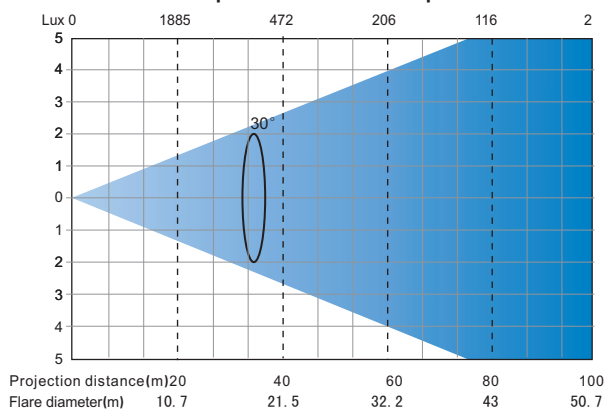
## 10.5 light table



### Spot mode maximum spot( frog at 50%)



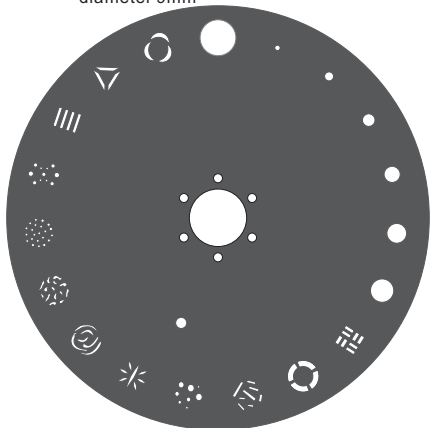
### Spot mode maximum spot



## 10.6 Gobo wheel

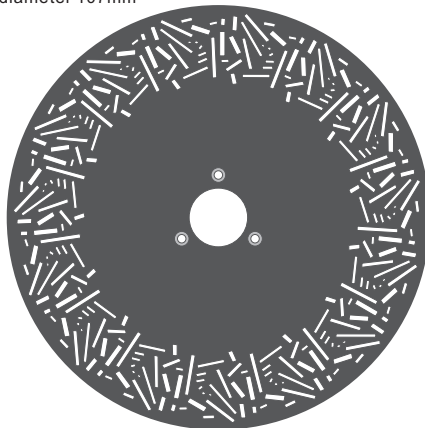
Fix gobo wheel

Integra, Inside diameter  $\phi$  118mm, effective diameter 9mm



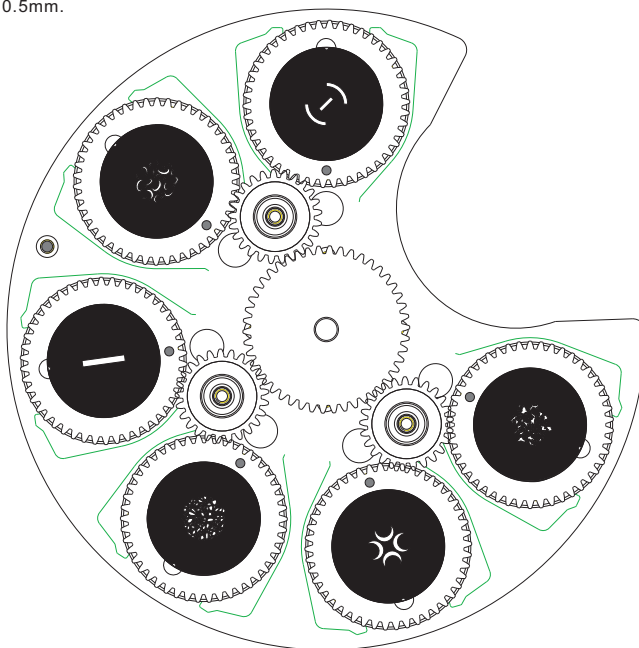
Effect wheel

Integra, Inside diameter  $\phi$  110mm, effective diameter 107mm



Rgobo wheel

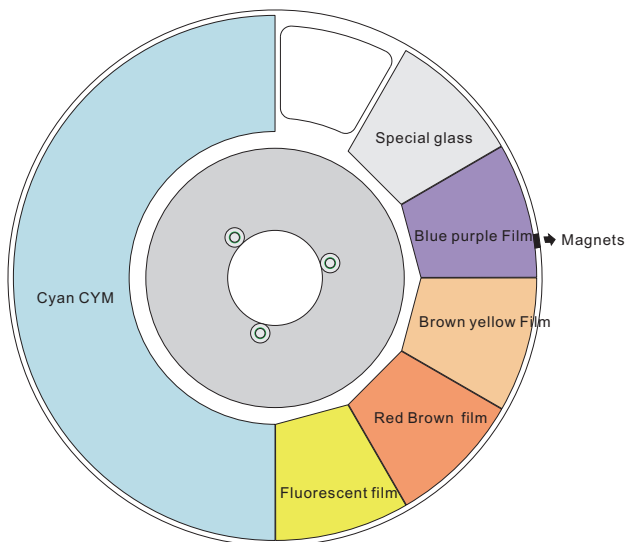
Glass design, Inside diameter  $\phi$  25.9mm, effective diameter 10.5mm.



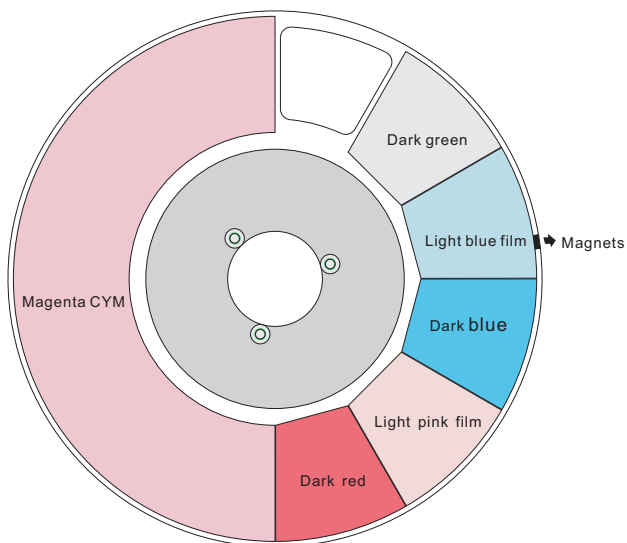


## 10.7 Color wheel

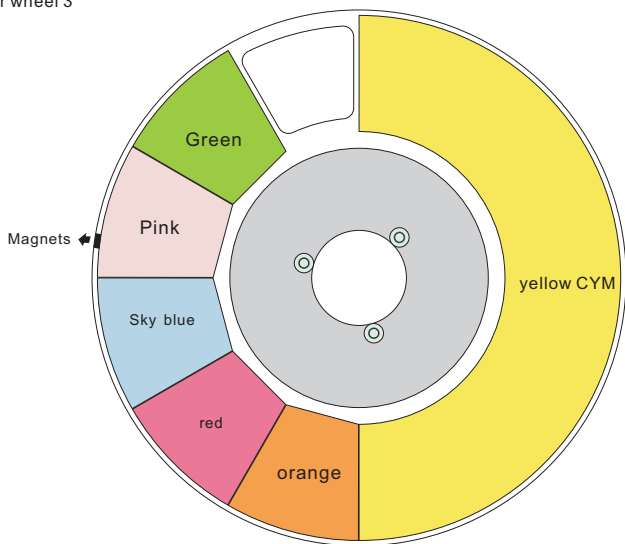
Color wheel 1



Color wheel 2



Color wheel 3











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<http://www.jollylighting.com>

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