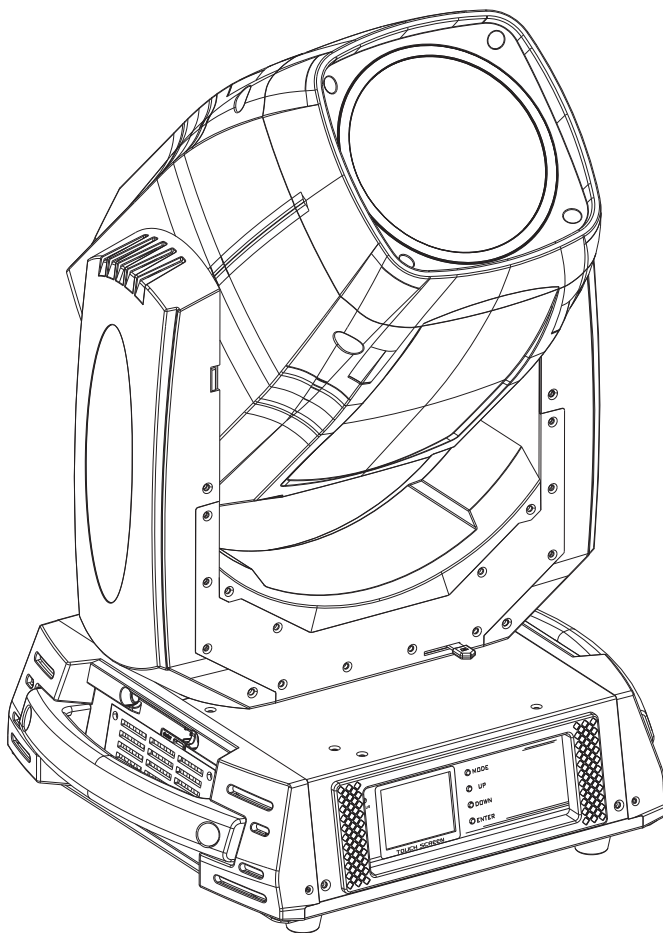


TRINITY MAX

 МУЗЦЕНТР
МУЗЫКАЛЬНОЕ ОБОРУДОВАНИЕ

USER MANUAL

<https://muzcentre.ru>



CE

INVO LIGHT

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 Menu Maps.....	11
8.DMX protocol.....	12
9.Maintance and cleaning.....	17
10.Electric equipment specification.....	17
10.1 Electrical paramters.....	17
10.2 Weight and dimensions.....	17
10.3 Channel Characteristics.....	17
10.4 Menu Function.....	17
10.5 light table.....	18
10.6 Gobo wheel.....	20
10.7 Color wheel.....	21
11.Electronic drawing.....	23

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. Plese 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 |

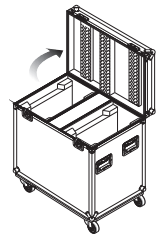
1.1 Package

Unpacking the fixture

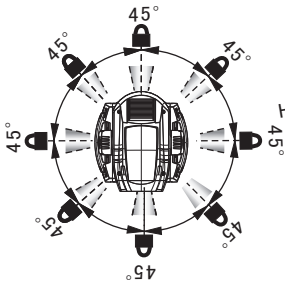
1. Open the flight case cover- Fig. 1
2. With one person on each side, lift the fixture out of the flight case.
3. Unlock pan and tilt before operating fixture.

Packing the fixture

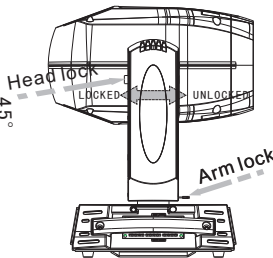
1. Disconnect the fixture from power and allow it to cool.
2. Lock arms and head as figure.- Fig.2(PAN Mechanism Lock and Release (every 45°) - Fig.2-1)(Tilt Mechanism Lock and Release (every 45°) - Fig.2-2)
3. Place the fixture in the bottom of the flight case, and cover the case without forcing.



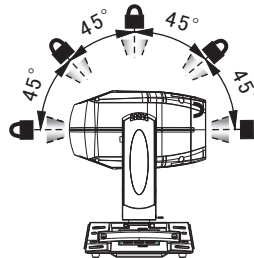
Aviation box Fig.1



PAN Mechanism Lock Fig.2-1



Level vertical transportation lock Fig.2

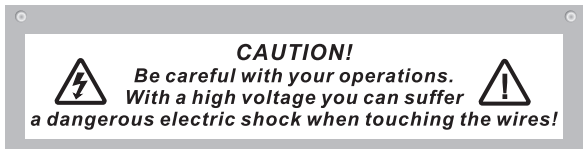


Tilt Mechanism Lock Fig.2-2

2. Safety instructions

Every person 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 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_a 40°C


 - **Maximum ambient temperature**
Do not operate the fixture if the ambient temperature (T_a) exceeds 40°C (104°F).
- t_c 80°C

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

Risk Group 1
According to
EN62471

 - **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.
- CE

 - 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 projectorhead, 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 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.

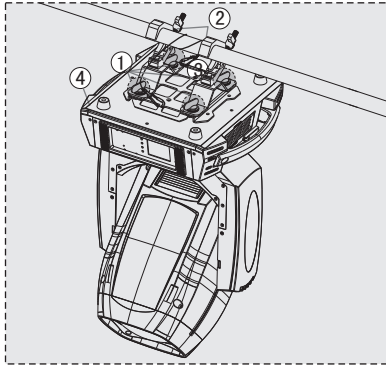
If the projector shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The projector must never be fixed swinging freely in the room.

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.

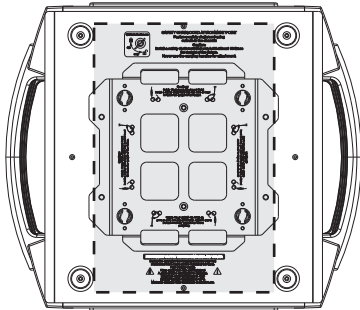
The projector can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics.

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



1/4 turn fasteners

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.

Caution!
Safety Chain/cord Attachment Point
Install a safety chain/cord that can hold at least 10 times the weight of the fixture.

DISCONNECT SUPPLY BEFORE REMOVING ANY COVER

During the operation the housing becomes very hot
Disconnect from mains before replacing the lamp.
High voltage inside.

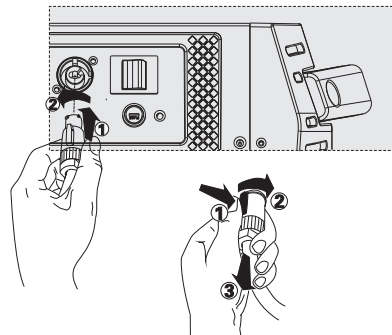
Keep away from rain and moisture!
A good ground connection is essential.
Medium room temperature: 40°C
Exterior surface temperature: 80°C
Minimum distance from flammable material: 0.8m.

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

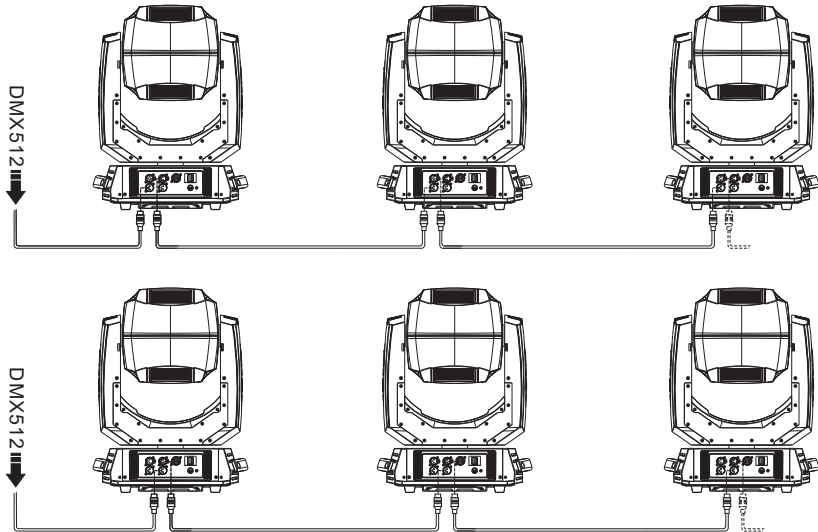
If you wish to change the power supply settings, see the chapter appendix Connect the fixture to the mains with the enclosed power cable and plug.

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	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	⊕

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 (+)

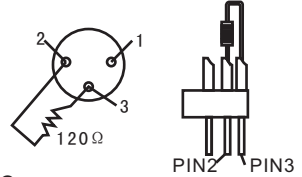
DMX output 5-pin XLR socket DMX input 5-pin XLR socket



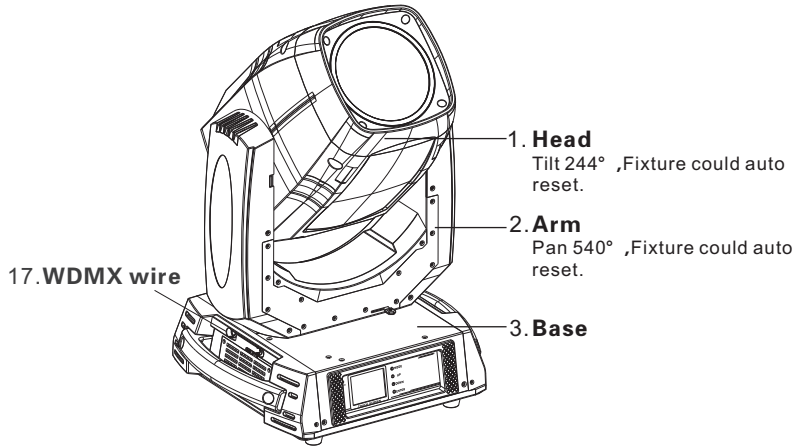
1: Ground
2: Signal (-)
3: Signal (+)
4: N. A.
5: N. A.

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.

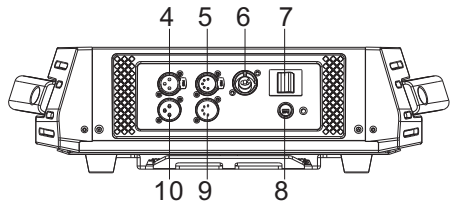


5. Description of the device



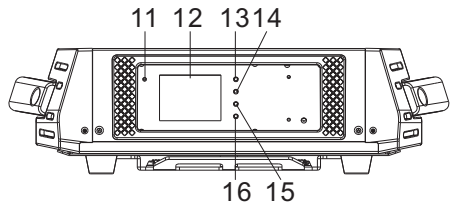
BACK PANEL

- 4. 3-pin XLR 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

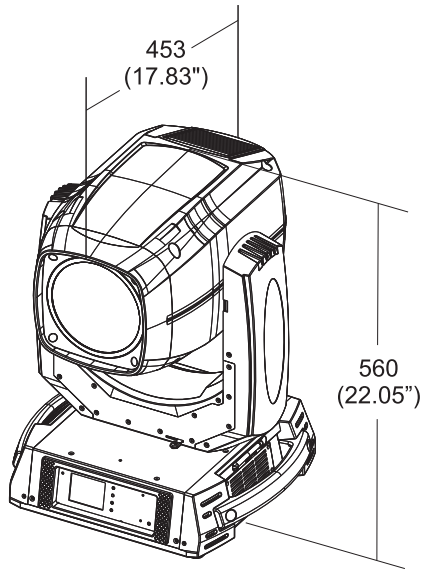
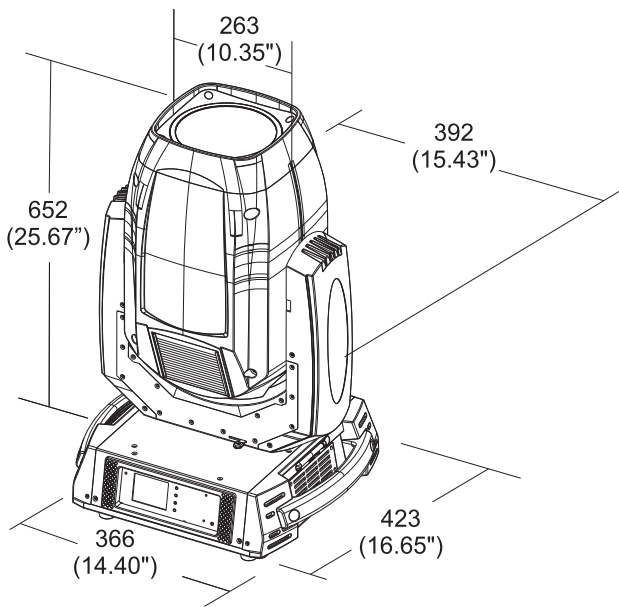


CONTROL PANEL

- 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).

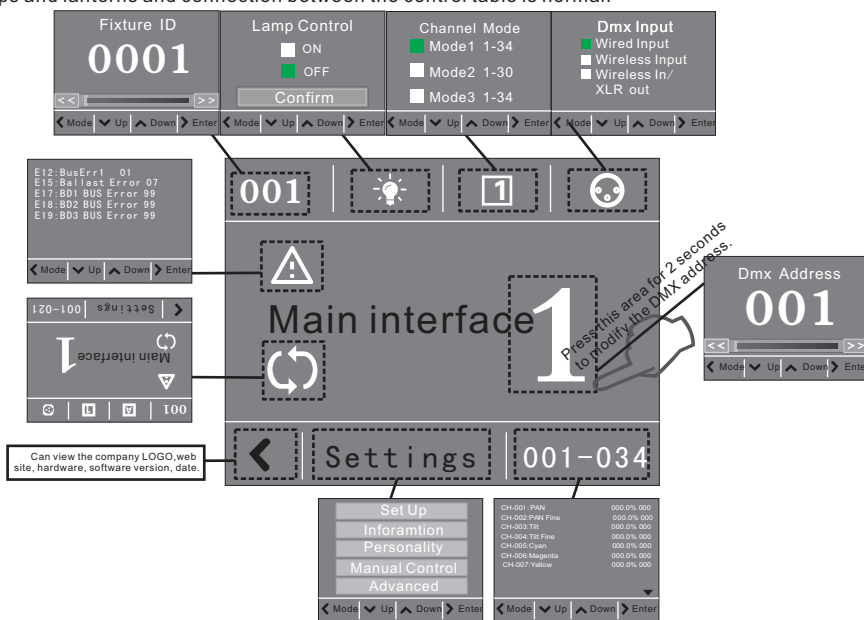
Press the MODE button to return to menu. Set a time 0 to 10 minutes automatically exit menu interface and close the screen.

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.



menu interface

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 "△", 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	Check main cable ABAB (485) chip	
E07	BD3Init Error		
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	Check the fan of head	
E36	Yellow Err		
E37	B.Fan1 Error		
E38	B.Fan2 Error		
E39	B.Fan3 Error	Check if the fan(80) of the lamp holder is working	
E40	L.Fan1 Error		
E41	L.Fan2 Error		
E42	L.Fan3 Error		
E43	L.Fan4 Error	Check if the blowing machine of lamp holder is working	
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	
Fixture Id	0001~9999	Lamps address	
Information	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	
DMX Values		DMX Values	
Personality	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
Demo		Results demonstrate	
Advanced	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			
	9	5		5	Colour 2
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		
Empty position		0			
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				
10			Colour 3	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
				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				
11	13	13	Rotation Gobo Select	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
				12	14
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
				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
14	10	10	Static gono Change	Continuous gobo wheel clockwise rotation at linearly variable speed from fast to slow	72-113
				Stop rotation	114-117
				Continuous gobo wheel couneter-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 couneter-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) - 1 sec.	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	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	43	178	60	221	190		
7	1.4	50	10	93		136		179		222			
8	1.6	51	10.2	94	27	137	44	180		223			
9	1.8	52	10.4	95		138		181	65	224	200		
10	2	53	10.6	96	28	139	45	182		225			
11	2.2	54	11	97		140	45	183	70	226			
12	2.4	55		98		141		184		227	210		
13	2.6	56	12	99	29	142	46	185	75	228			
14	2.8	57		100		143	46	186		229	220		
15	3	58	13	101		144		187		230			
16	3.2	59		102	30	145	47	188	80	231			
17	3.4	60		103		146		189		232	230		
18	3.6	61	14	104	31	147	48	190		233			
19	3.8	62		105		148	48	191	85	234	240		
20	4	63	15	106		149		192		235			
21	4.2	64		107	32	150	49	193	90	236			
22	4.4	65		108		151		194		237	250		
23	4.6	66	16	109	33	152	50	195	95	238			
24	4.8	67		110		153		196		239	260		
25	5	68	17	111		154		197		240			
26	5.2	69		112	34	155	51	198	100	241			
27	5.4	70		113		156		199		242	270		
28	5.6	71	18	114	35	157	52	200	110	243			
29	5.8	72		115		158		201		244	280		
30	6	73	19	116		159		202		245			
31	6.2	74		117	36	160	53	203	120	246			
32	6.4	75		118		161		204		247	290		
33	6.6	76	20	119	37	162	54	205		248			
34	6.8	77		120		163		206	130	249	300		
35	7	78		121		164		207		250			
36	7.2	79	21	122	38	165	55	208		251			
37	7.4	80		123		166		209	140	252	310		
38	7.6	81	22	124		167		210		253			
39	7.8	82		125	39	168	56	211	150	254			
40	8	83		126		169		212					
41	8.2	84	23	127	40	170	57	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

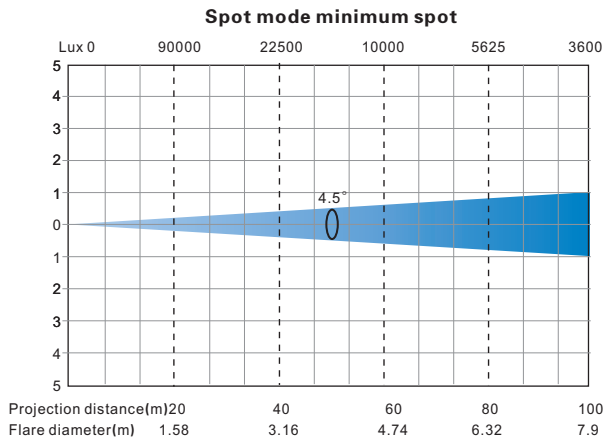
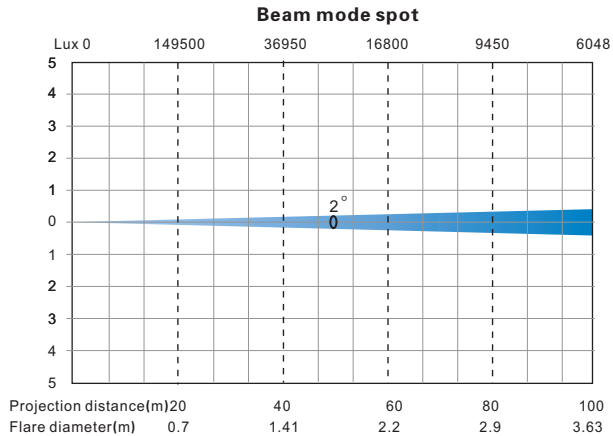
1. Channel: 34, 30, 34DMX-512.
2. Scan: Pan540°, Tilt244°, Scan speed adjustable. Fixture could auto reset.
3. Colour wheel: three open+5 colors. half-color effects, CMY function.
4. Gobo wheel: one open+6 gobos. one, Fix gobo wheel: one open+18 gobos.
5. Prism system: 1 rotating of 8 faces, 1 rotating 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.

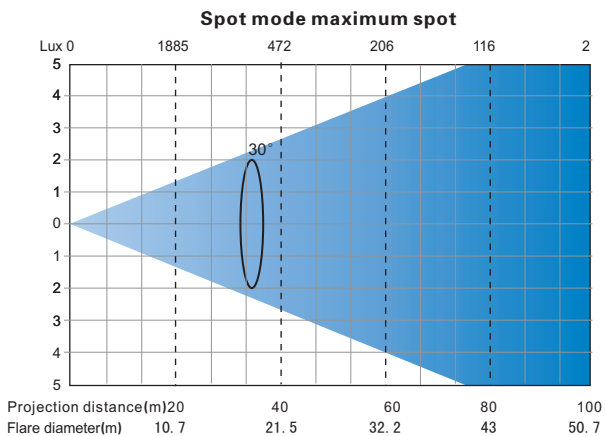
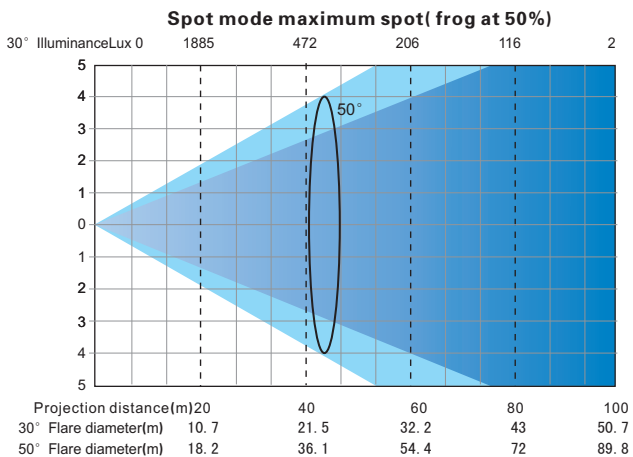
10.4 Menu Function

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

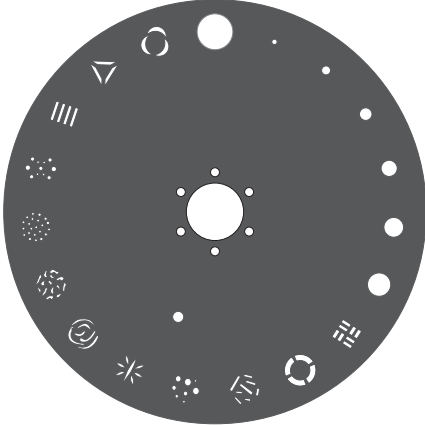




10.6 Gobo wheel

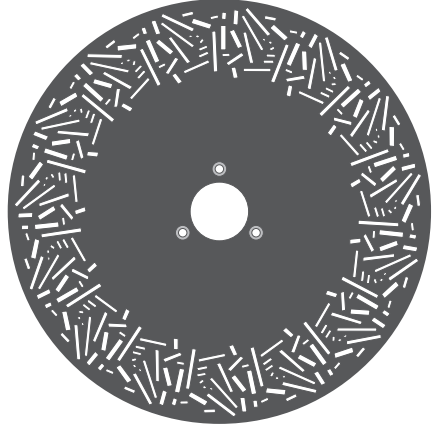
Fix gobo wheel

Integra, Inside diameter ϕ 118mm, effective diameter 9mm



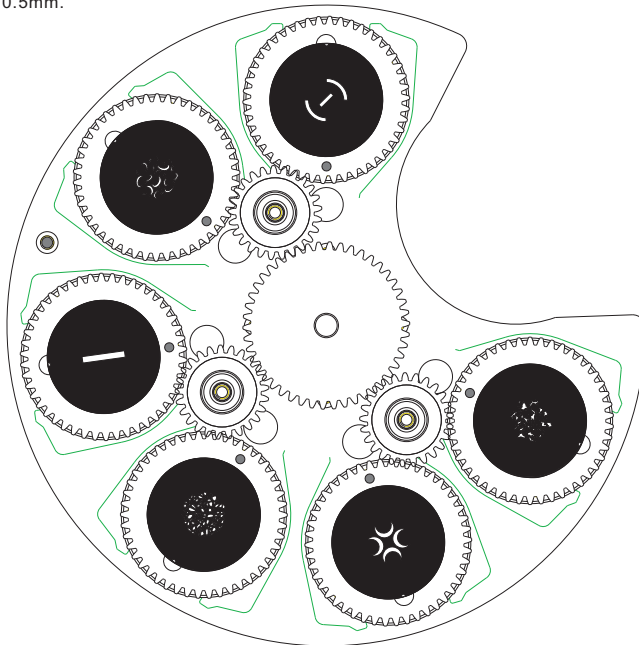
Effect wheel

Integra, Inside diameter ϕ 110mm, effective diameter 107mm



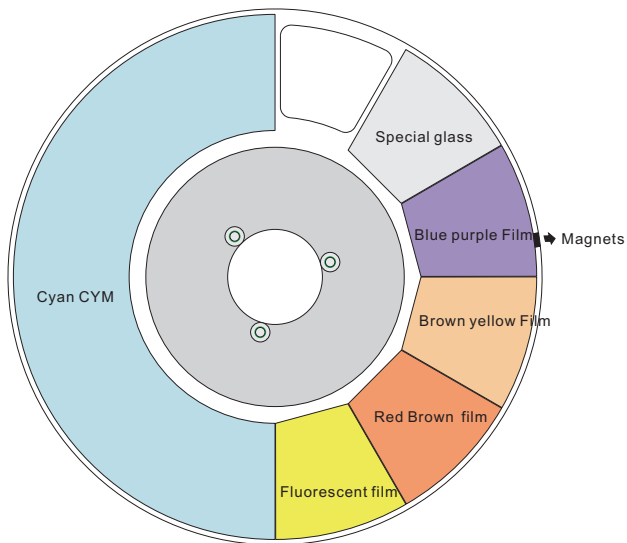
Rgobo wheel

Glass design. Inside diameter ϕ 25.9mm, effective diameter 10.5mm.

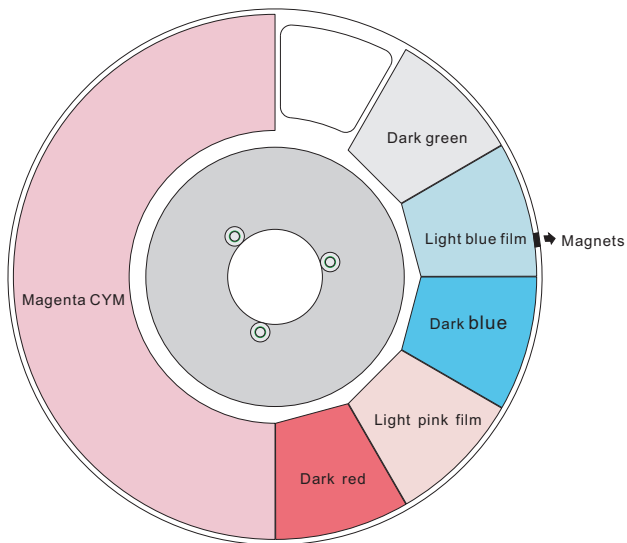


10.7 Color wheel

Color wheel 1



Color wheel 2



Color wheel 3

