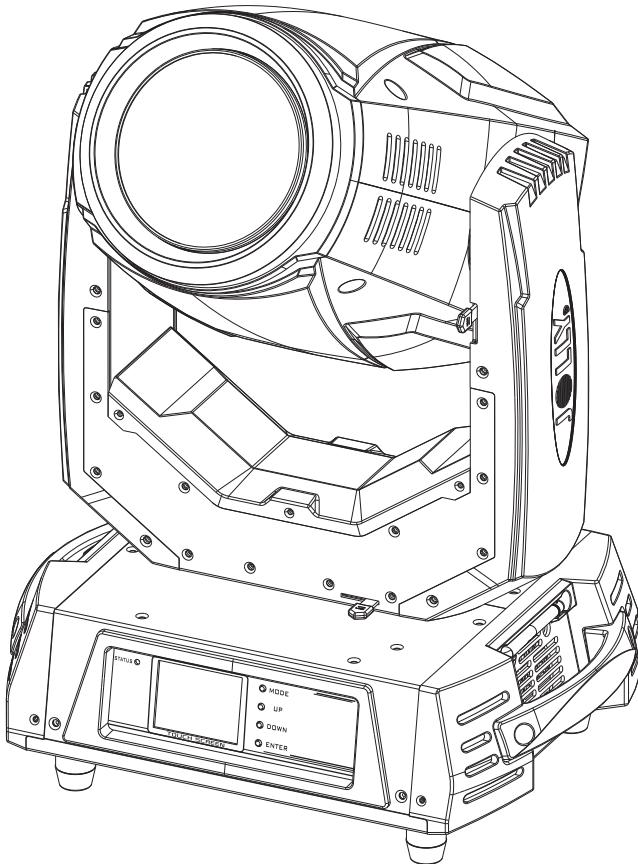


X-3GT

USER MANUAL



CE V1.0

JOLLY®

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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 aesthetic 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

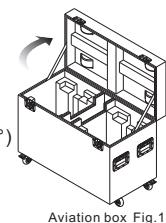
1. 1 Package

Unpacking the fixture

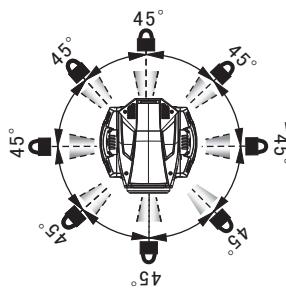
1. Open the flight case cover- Fig.1
2. With one person on each side, lift the fixture out of the flight case.
3. Unlock pan and tilt before operating fixture.

Packing the fixture

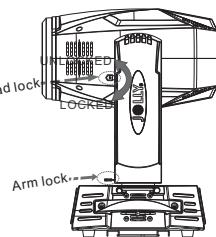
1. Disconnect the fixture from power and allow it to cool.
2. lock arms and head as figure. - Fig.2(PAN Mechanism Lock and Release (every 45°) - Fig.2-1) (Tilt Mechanism Lock and Release (every 45°) - Fig.2-2)
3. Place the fixture in the bottom of the flight case, and cover the case without forcing.



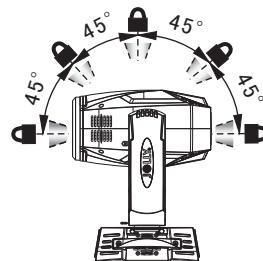
Aviation box Fig.1



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 suer that the power-switch is set to off-position before you con ections with themains with particular caution!
- Make sure that the power-cord is never crimped or damaged by sharp edges.Check the decice and the p-ower-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 12 metres from the lens of the projector.



- Maximum ambient temperature
Do not operate the fixture if the ambient temperatuer(Ta) exceeds 40°C (104°F).



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



- 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 de- vices 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.



- 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 pur- suant to:
 - Safety of electrical equipment supplied at low voltage (LVD)
EN 60598-1:2015
EN 60598-2-17:1989+A2:1991
 - Electromagnetic Compatibility (EMC)
EN55015:2013/A1:2015
EN 61000-3-2:2014
EN 61000-3-3:2013
EN61547:2019
 - 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 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 20 minutes. After this time the likelihood of the lamp exploding is virtually small.

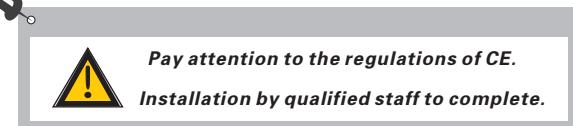
If it is necessary to replace the lamp, wait for another 20 minutes to avoid getting burnt. The fitting is designed to hold in any splinters produced by a lamp exploding.

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



- 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 expertise regarding 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.

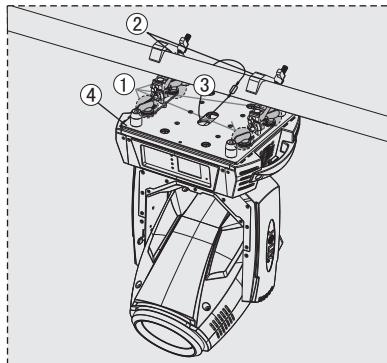
If the projector shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The projector must never be fixed swinging freely in the room.

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.

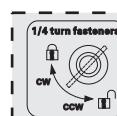
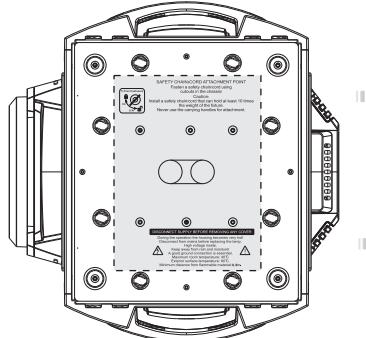
The projector can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics.

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 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.

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



SAFETY CHAIN/CORD ATTACHMENT POINT

Fasten a safety chain/cord using cutouts in the chassis!

Caution:

Install a safety chain/cord that can hold at least 10 times the weight of the fixture.

Never use the carrying handles for attachment.

DISCONNECT SUPPLY BEFORE REMOVING ANY COVER

During the operation the housing becomes very hot!

Disconnect from mains before replacing the lamp.

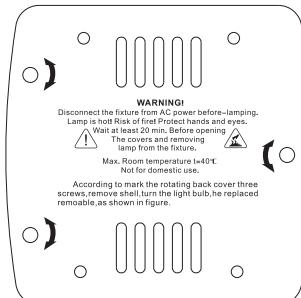
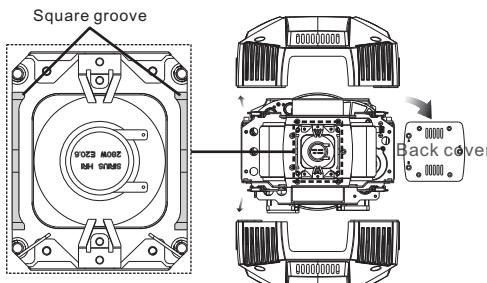
High voltage inside!

Keep away from rain and moisture!

A good ground connection is essential.



According to the three screws broke open the back cover back cover screen printing signs, reversing lamp can be removed for replacement. With "—" word screwdriver tools in the rectangular slot (grey area) strike on the edge of the lamp holder, can adjust the light bulb location. As shown in figure;

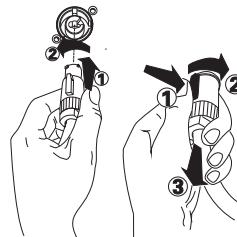


4.3 Power supply connection and cut off

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 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.

1. Can only link 3 pcs with 110V!
2. Can only link 5 pcs with 220V!

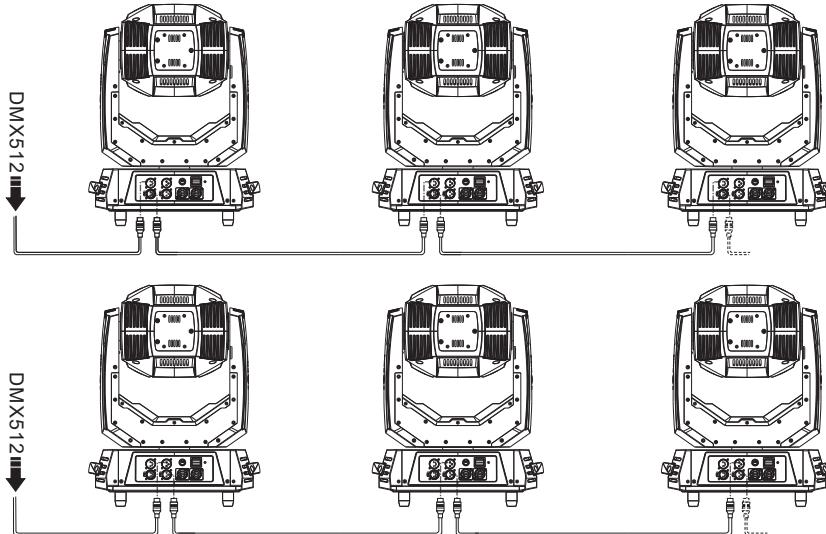


 **Warning:** please verify the power of the power supply equipment prior to the connection! Earth wire must be grounded!

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

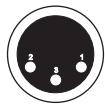
Only use stereo shielded cable and 3-pin XLR-plugs and connectors in order to connect.



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



DMX output
5-pin XLR socket



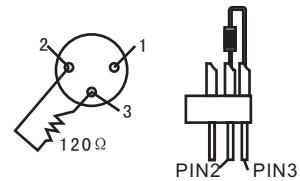
DMX input
5-pin XLR socket



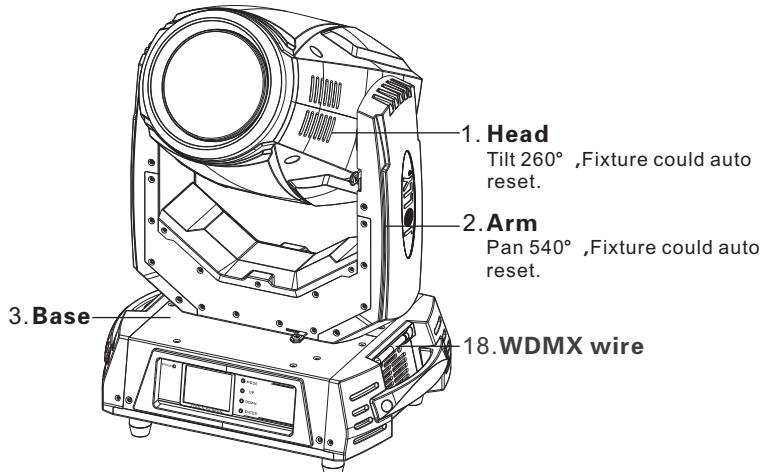
1: Ground
2: Signal (-)
3: Signal (+)
4: N. A.
5: N. A.

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.

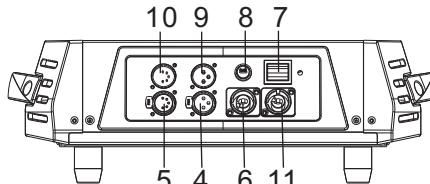


5. Description of the device



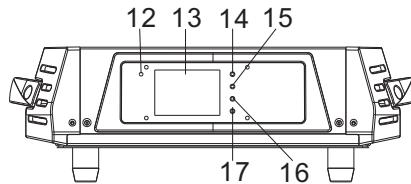
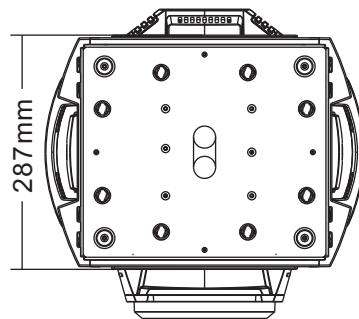
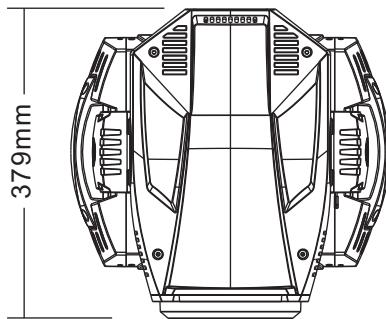
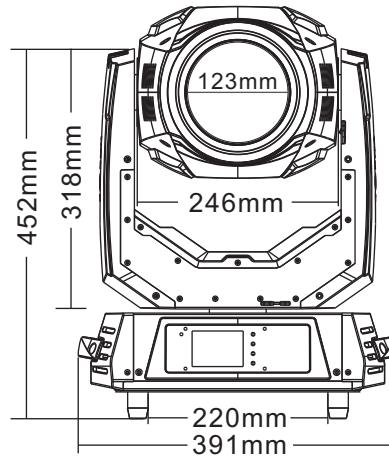
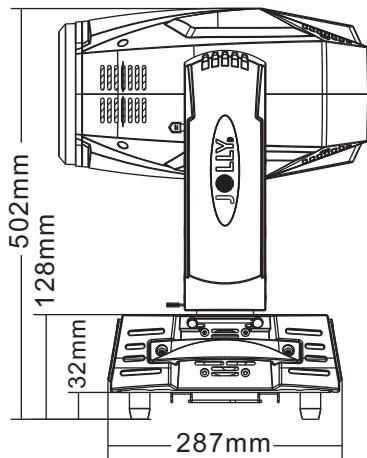
BACK PANEL

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



CINTROL PANEL

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

**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).

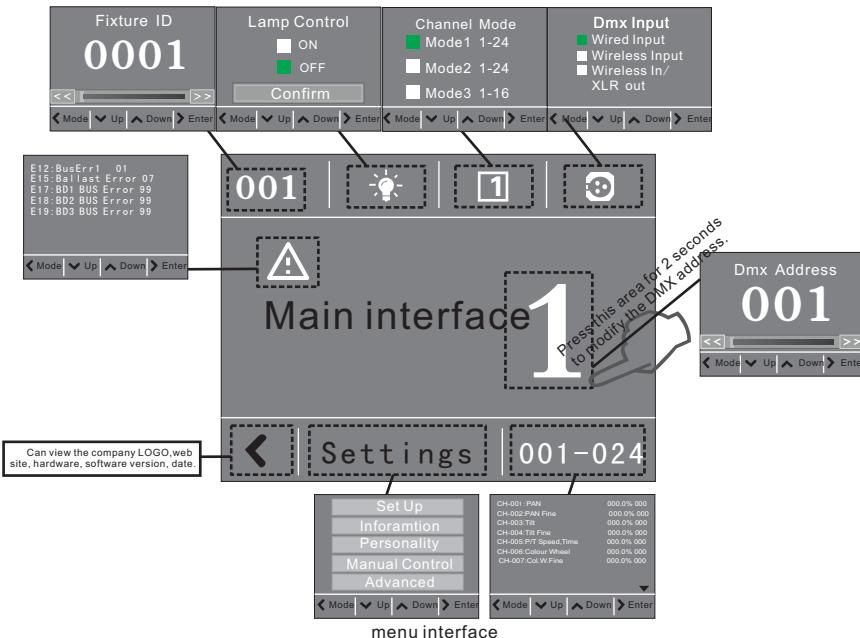
Press the MODE button to return to menu. Set a time 0 to 10 minutes automatically exit menu interface and close the screen.

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 MEASURMENT	NOTE
	SpiFlashError	Check the welding of Chip	
	BD1Init Error		
	BD2Init Error	Check main cable ABAB (485) chip	RESET ERROR
	BD3Init Error		
	Mcu Bus Err	Check main cable ABAB (485) chip	
	BD1 BUS Error		
	BD2 BUS Error	Check the communication signal& welding of communication chip	
	BD3 BUS Error		
	Pan FB. Err	Check the light coupling line, optical coupling switch and a plate of	
	Tilt FB. Err	the relative position measurement	
	Pan Zero Err		
	Tilt Zero Err		
	Prism1 Err		
	Prism2 Rt Err		
	Prism2 Err1		
	R.Gobo Err	Check cable of sensor, distance and location of ,magnets and sensor	
	R.Gobo Rr Err		
	Zoom Err		
	Focus Err		
	St.Gobo Err		
	ColourW. Err		
	B.Fan1Error		
	B.Fan2Error	Check the 60*60 fan of B.Fan.	
	B.Fan3Error		
	HeadFan1 Err	Check the 60*60 fan of Head.	
	HeadFan2 Err		
	LampFan1Error	Check the 80*80 fan of Head.	
	LampFan2Error	Check the 50 fan of Head.	

7.3 Menu Maps

Set up	Dmx Address	001-XXX	
	Channel Mode	Mode1 1-24 Mode2 1-24 Mode3 1-16	Default Mode1
	Fixture Id	0001-9999	
	Fixture Times	xxxxxH xxM	
Information	Lamp Times	Lamp On Times: xxxxH xxM	
		Lamp Strike: xxxx	
		Reset Lamp Time	
	Error List		
	Diagnosis	BOARD 1: XX.XX%	
		BOARD 2: XX.XX%	
		BOARD 3: XX.XX%	
	Fans Monitor		
	DMX Values		
	DMX Diagnosis		
Personality	Lamp	Power ON Light ON/OFF	Default:OFF
		Lamp On By DMX ON/OFF	Default:ON
		Lamp ON Delay 0-60m	Default:00M
	Pan/Tilt	Pan Reverse ON/OFF	Default:OFF
		Tilt Reverse ON/OFF	Default:OFF
		Feedback ON/OFF	Default:ON
	Dmx Input	Wired Input	Default
		Wireless Input	
		Wireless In/XLR out	
	Language	English	
		简体中文	
Advanced Manual Control	Screen	Brightness	
		Screen Time out 0-10M	Default 02M
		Touch Screen ON/OFF	Default OFF
		Auto Screen ON/OFF	Default ON
		Reset ALL	
		Reset Pan/Tilt	
		Reset Gobo	
		Reset Colour	
		Reset Other	Contain:Focus/Zoom/Prism/Forst/Strobe
	Channel		
Advanced Manual Control	Calibration	password:0088	
	Factory Default	Yes/No	
	Touch Calibration		
	DMX Monitor	ON/OFF	

8.DMX protocol

Mode1	Mode2	Mode3	Name	Function	DMX Value
1	1	1	Pan	PAN 8BIT	0-255
2	2		Pan Fine	PAN 16BIT	0-255
3	3	2	Tilt	TILT 8BIT	0-255
4	4		Tilt fine	TILT 16BIT	0-255
5	5	3	Pan/Tilt speed Pan/Tilt time	Speed from max. to min.	2-255
6	7	4	Colour wheel	Continual positioning	
				Open/white	0-2
				white → Colour 1	3-11
				Colour 1 → Colour 2	12-20
				Colour 2 → Colour 3	21-29
				Colour 3 → Colour 4	30-38
				Colour 4 → Colour 5	39-47
				Colour 5 → Colour 6	48-56
				Colour 6 → Colour 7	57-66
				Colour 7 → Colour 8	67-75
				Colour 8 → Colour 9	76-84
				Colour 9 → Colour 10	85-93
				Colour 10 → Colour 11	94-102
				Colour 11 → Colour 12	103-111
				Colour 12 → Colour 13	112-120
				Colour 13 → white	121-129
				Positioning	
				Colour 1	130-134
				Colour 2	135-138
				Colour 3	139-143
				Colour 4	144-147
				Colour 5	148-152
				Colour 6	153-157
				Colour 7	158-161
				Colour 8	162-166
				Colour 9	167-171
				Colour 10	172-176
				Colour 11	177-180
				Colour 12	181-185
				Colour 13	186-189
				Forwards rainbow effect from fast to slow	190-215
				No rotation	216-217
				Backwards rainbow effect from slow to fast	218-243
				Reserved	244-249
				Auto random colour selection from fast to slow	250-255
7	8		Colour wheel-fine positioning	Fine positioning	0-255
8	10	5	Static gobo wheel	Open/hole	0-3
				Positioning	
				Gobo 1	4-9
				Gobo 2	10-15
				Gobo 3	16-21
				Gobo 4	22-27
				Gobo 5	28-33
				Gobo 6	34-39
				Gobo 7	40-45
				Gobo 8	46-51
				Gobo 9	52-57
				Gobo 10	58-63
				Beam reducer 1	64-69
				Beam reducer 2	70-75

Mode1	Mode2	Mode3	Name	Function	DMX Value
8	10	5	Static gobo wheel	Beam reducer 3	76-81
				Beam reducer 4	82-87
				Shaking gobos from slow to fast	
				Gobo 1	88-95
				Gobo 2	96-103
				Gobo 3	104-111
				Gobo 4	112-119
				Gobo 5	120-127
				Gobo 6	128-135
				Gobo 7	136-143
				Gobo 8	144-151
				Gobo 9	152-159
				Gobo 10	160-167
				Beam reducer 1	168-175
				Beam reducer 2	176-183
				Beam reducer 3	184-191
				Beam reducer 4	192-199
				Open/hole	200-201
				Forwards gobo wheel rotation from fast to slow	202-221
				No rotation	222-223
				Backwards gobo wheel rotation from slow to fast	224-243
				Auto random gobo selection from fast to slow	244-255
9	11	6	Rotating gobo wheel	In the range of 0-59 DMX the gobo selection speed is controlled by the Effect speed channel Index -set indexing on channel 10/12/7	
				Open/Hole (default)	0
				Hole (flat field)	1-4
				Gobo 1	5-7
				Gobo 2	8-10
				Gobo 3	11-13
				Gobo 4	14-16
				Gobo 5	17-19
				Gobo 6	20-22
				Gobo 7	23-25
				Gobo 8	26-28
				Gobo 9	29-31
				Rotation -set rotation on channel 10/12/7	
				Gobo 1	32-34
				Gobo 2	35-37
				Gobo 3	38-40
				Gobo 4	41-43
				Gobo 5	44-46
				Gobo 6	47-49
				Gobo 7	50-52
				Gobo 8	53-55
				Gobo 9	56-59
				Shaking gobos from slow to fast	
				Index - set indexing on channel 10/12/7	
				Gobo 1	60-67
				Gobo 2	68-75
				Gobo 3	76-83
				Gobo 4	84-91
				Gobo 5	92-99
				Gobo 6	100-107
				Gobo 7	108-115
				Gobo 8	116-123
				Gobo 9	124-129
				Shaking gobos from slow to fast	
				Rotation - set rotation on channel 10/12/7	
				Gobo 1	130-137

Mode1	Mode2	Mode3	Name	Function	DMX Value
9	11	6	Rotating gobo wheel	Gobo 2	138-145
				Gobo 3	146-153
				Gobo 4	154-161
				Gobo 5	162-169
				Gobo 6	170-177
				Gobo 7	178-185
				Gobo 8	186-193
				Gobo 9	194-199
				Open/hole	200-201
				Forwards gobo wheel rotation from fast to slow	202-221
				No rotation	222-223
				Backwards gobo wheel rotation from slow to fast	224-243
				Reserved	244-249
				Auto random gobo selection from fast to slow	250-255
10	12	7	Rot. gobo indexing and rotation	Gobo indexing –set position on channel 9/11/6	
				Gobo indexing	0-255
				Gobo rotation –set position on channel 9/11/6	
				No rotation	0
				Forwards gobo rotation from fast to slow	1-127
11	13		Rot. gobo indexing and rotation – fine	No rotation	128-129
				Backwards gobo rotation from slow to fast	130-255
12	14	8	Prism	Fine indexing (rotation)	0-255
				Open position (hole)	0-19
				6-facet linear rotating prism –indexing	20-49
				6-facet linear rotating prism- rotation	50-75
				8-facet circular rotating prism- Indexin	76-105
				8-facet circular rotating prism-rotation	106-127
				Prism/gobo macros	
				Macro 1	128-135
				Macro 2	136-143
				Macro 3	144-151
				Macro 4	152-159
				Macro 5	160-167
				Macro 6	168-175
				Macro 7	176-183
				Macro 8	184-191
				Macro 9	192-199
				Macro 10	200-207
				Macro 11	208-215
				Macro 12	216-223
				Macro 13	224-231
				Macro 14	232-239
				Macro 15	240-247
				Macro 16	248-255
13	15	9	Prism rotation and indexing	Prism indexing –set position on channel 12/14/8	
				Prism indexing	0-255
				Prism rotation –set position on channel 12/14/8	
				No rotation	0
				Forwards prism rotation from fast to slow	1-127
				No rotation	128-129
				Backwards prism rotation from slow to fast	130-255
14	16	10	Forst	Frost from 0% to 100%	0-255
15	17	11	Zoom	Zoom from max.to min.beam angle	0-255
16	18		Zoom fine	Fine zooming	0-255
17	19	12	Focus	Continuous adjustment from far to near	0-255
18	20		Focus fine	Fine focusing	0-255

Mode1	Mode2	Mode3	Name	Function	DMX Value
19	21	13	Autofocus (priority & distance selection)	Select desired distance and effect on which you need to focus and use "Focus"channel(17/19/12)to focus the image	
				Reserved	0-27
				Disable zoom/focuslinking-3 sec.	28-52
				Enable zoom/focus linking,near distance(8meters) (default setting)-3 sec.	53-77
				Enable zoom/focus linking,ediumdistance(12meters)-3 sec.	78-102
				Enable zoom/focus linking, far distance(20meters)-3 sec.	103-127
20	22	14	Strobe	Reserved	128-255
				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 open	160-191
21	23	15	Dimmer	Random strobe	192-223
				Shutter open, Full lamp power	224-255
22	24		Dimmer fine	Dimmer intensity from 0% to 100%	0-255
23	6	16	Power/Special functions	Fine dimming	0-255
				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
				Reserved	30-49
				Pan/Tilt speed mode	50-59
				Pan/Tilt time mode	60-69
				Note:Put in passord for the following functions(9876-1234-6675)	
				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 step	100-109
				Blackout while gobo wheel moving step	110-119
				Disabled blackout while gobo wheel moving	120-129
				To activate following functions,stop in DMX value for at least 10 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
				Zoom/focus/prism/Forst/Strobe reset	180-189
				Reserved	190-199
				Total reset	200-209
				Reserved	210-229
				Lamp Off	230-239
				Reserved	240-255
24	9		Effect Speed	Speed of Rot. Gobo selection from max. to min.	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 290W (Osram sirius hri 290W R0)

POWER: 400W

VOLTAGE: AC100-240V 50/60HZ

Color temperature: 8000K

10.2 Weight and dimensions

Dimensions : 390.5X286.5X502.4mm

NET WEIGHT: 18.5Kg

Dimensions (Carton package) : 606X416X466mm

WEIGHT (Carton package) : 23.5Kg

Dimensions (Air boxes -2 lights): 957X497X737mm

NET WEIGHT/WEIGHT (Air boxes -2 lights) : 34Kg/74.5Kg

10.3 Channel Characteristics

1. Channel: 24, 24, 16DMX-512.
2. Scan: Pan 540°, Tilt 260°, Scan speed adjustable. Fixture could auto reset.
3. Colour wheel: One open + 13 colors.
4. RGobo wheel: one open + 9 gobos.
5. GoboR wheel: one open + 14 gobos, rainbow effect, half-color effects.
6. Frost: linear frost
7. Focus: linear focus.
8. Shutter: Double motor stroboscopic, electronic shutter, random strobe.

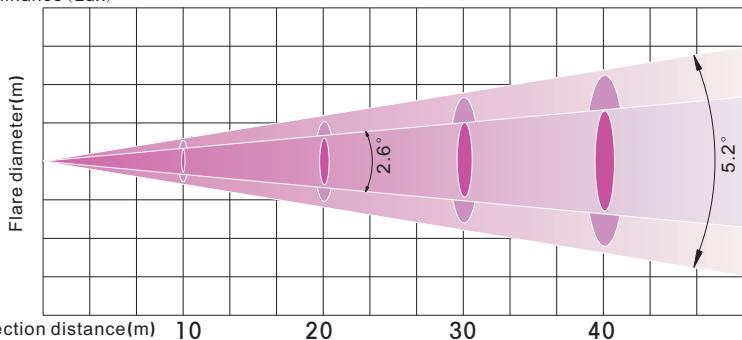
- 9.Demmer: linear dimmer.
- 10.Prism system: prism effect, with rotating.
- 11.Zoom:linear amplifier.

10.4 Menu Function

- 1.Touch screen, 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.Screen rotation.
- 7.Auto error detection.
- 8.Wireless input,wired input,wireless in/xlr out.
- 9.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
- 10.Remote ON by DMX.
- 11.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.
- 12.Software upgrade function.
- 13.DMX signal after disconnecting display brightness alternately.

10.5 light table

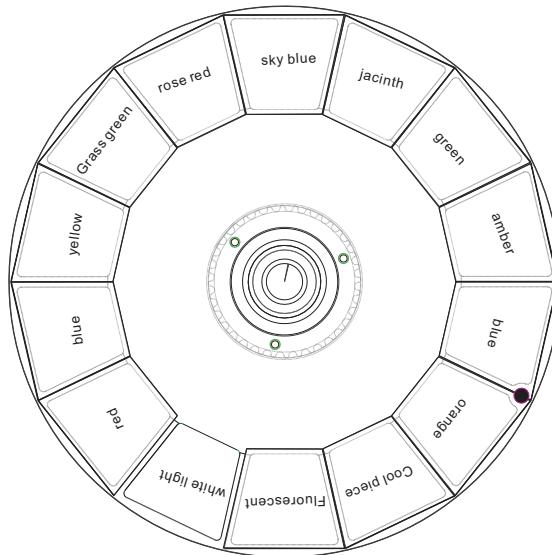
light beam 2.6° Illuminance (Lux)	330600	82650	36733	20663
pattern 5.2° Illuminance (Lux)	25380	6345	2820	1586



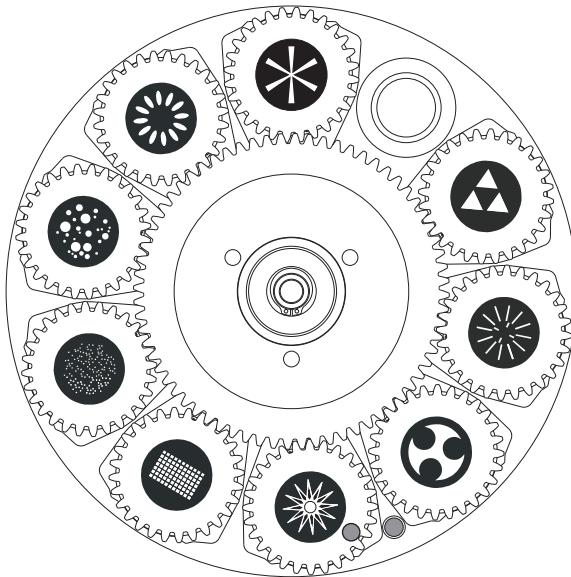
The design at the minimum Angle	$\phi 0.94$	$\phi 1.9$	$\phi 2.84$	$\phi 3.80$
5.2° Flare diameter(m)				

Minimum Angle when the beam of light 2.6° Flare diameter(m)	$\phi 0.48$	$\phi 0.94$	$\phi 1.42$	$\phi 1.88$
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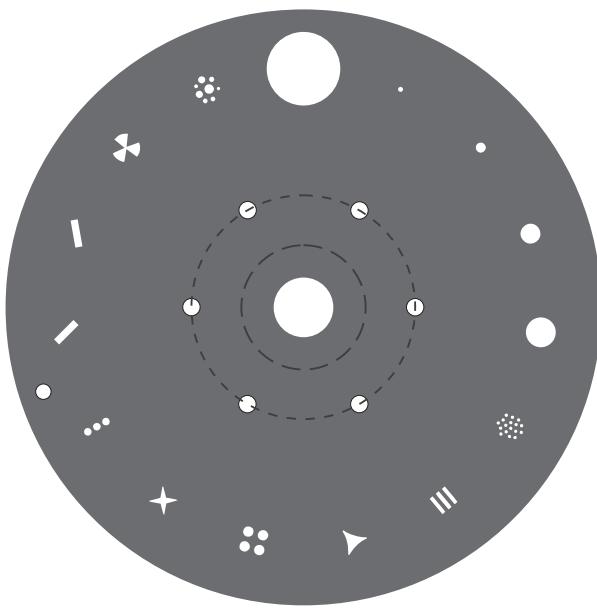
10.6 Color disk



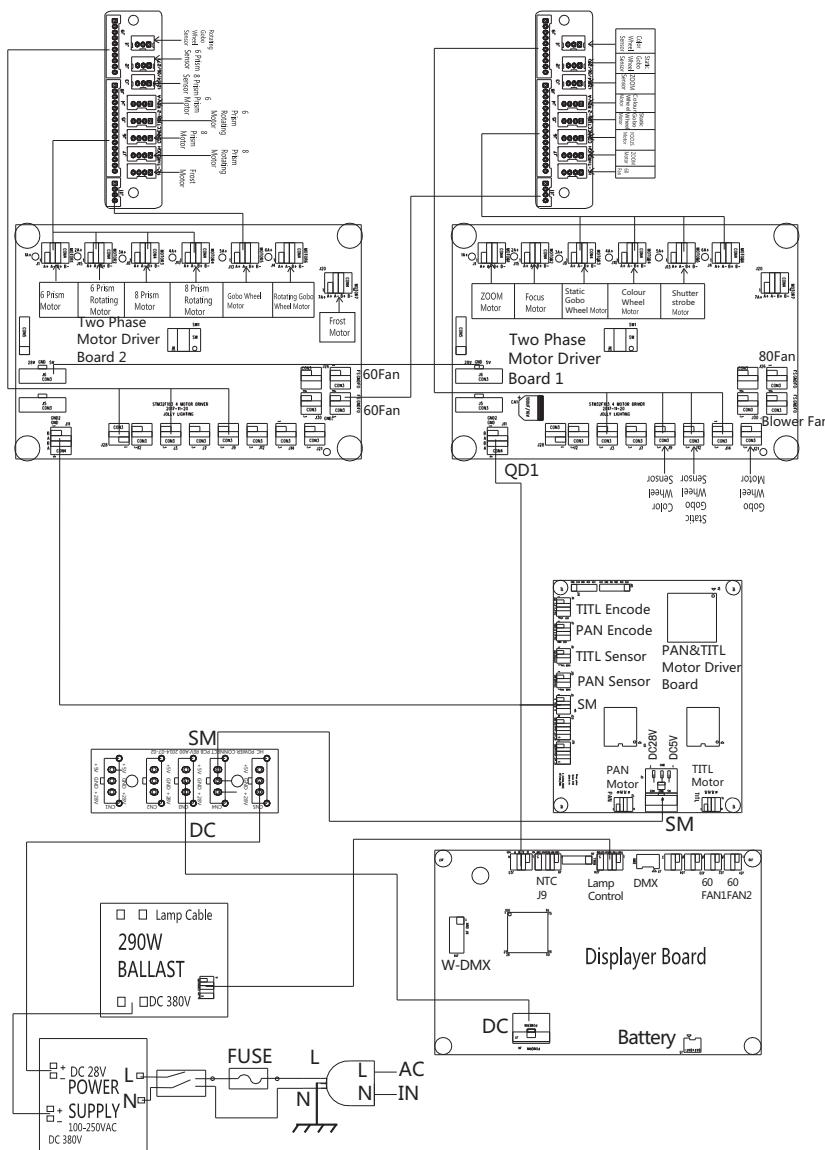
10.7 Gobo wheel RGOBO WHEEL



GOBOR WHEEL
Effective diameter 5.8mm



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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