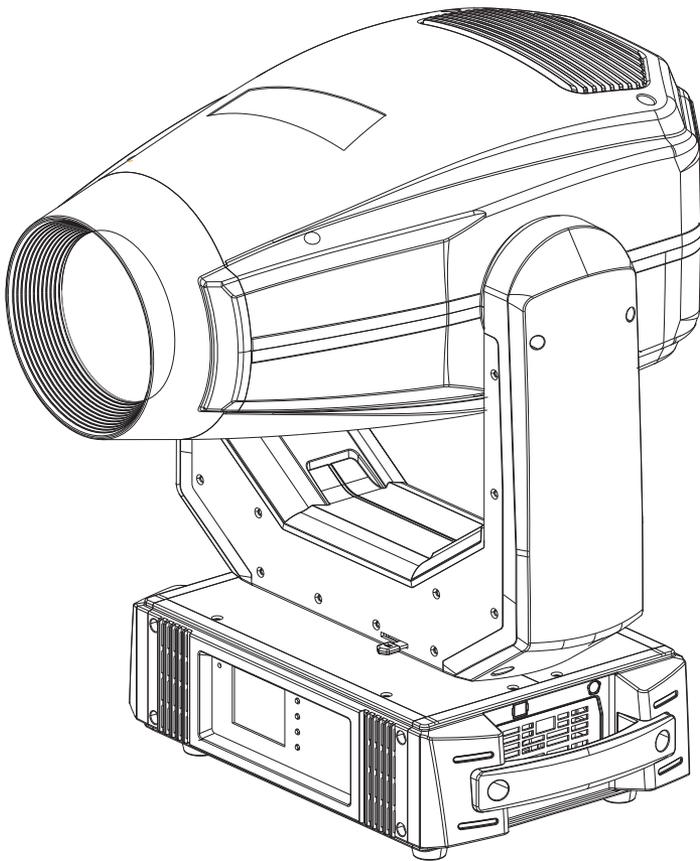


A-5 Spot PF

USER MANUAL



CE

Version:1.0

JOLLY®

Table of content

1.Open–Package guidelines.....	1
1. 1 Package.....	1
2.Safety instructions.....	1
3.Operating determination.....	3
4.Rigging the fixture.....	4
4.1 Mounting.....	4
4.2Installing the Clamps.....	4
4.3 Power supply connection and cut off.....	5
4.4 Power Connection.....	6
4.5 DMX–512 connection/connection between fixtures.....	6
5.Description of the device.....	7
6.Dimension.....	8
7.Display control.....	9
7.1 Navigation in the Menu.....	9
7.2 Display Operation.....	9
7.3 Unit Menu	11
8.DMX protocol.....	12
9.Maintance and cleaning.....	15
10.Electric equipment specification.....	16
10.1 Electrical paramters.....	16
10.2 Weight and dimensions.....	16
10.3 Channel Characteristics.....	16
10.4 Menu Function.....	16
10.5 light table.....	17
10.6 Gobo wheel.....	17
10.7 Color wheel.....	18
11.Electronic drawing.....	19

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

Congratulations on choosing our products! Please carefully read this instruction manual in its entirety and keep it well for using reference. This manual contained about the installation and the relative using information of this products. Please refer to this manual's relative instruction when using this equipment.

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

When receive the product, please be careful to take and put, check if the product has damage or not because of transportation, and check the following parts:

- | | |
|---------------------|----------------------|
| 1. Signal cable-1PC | 2. Safety cable-1PC |
| 3. User Manual-1PC | 4. Omega holder-2PCS |
| 5. Power cable-1PC | 5. Service card-1PC |

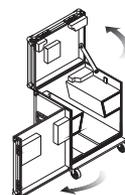
1.1 Package

Unpacking the fixture

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

Packing the fixture

1. Disconnect the fixture from power and allow it to cool.
2. Lock head as figure.- Fig.2(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

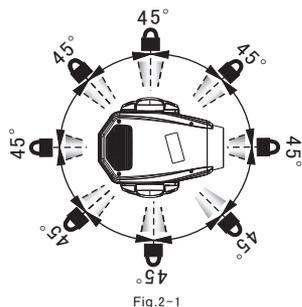
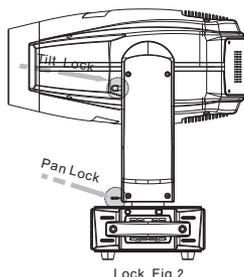
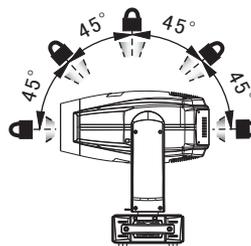


Fig.2-1



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.

CAUTION!

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

This device has been shipped with our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Important:

- The manufacturer will not accept liability for any resulting damages caused by the nonobservance of this manual or any unauthorized modification to the device.
- Please consider that damages caused by manual modifications to the device are not subject to warranty.

- Never let the power-cord come into contact with other cables! Handle the power cord and all connections with particular caution!
- Make sure that the available voltage is not higher than stated on the rearpanel.
- Always plug in the power plug least. Make sure that the power-switch is set to off-position before you connect 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)!

- | | |
|---|--|
|  | <ul style="list-style-type: none"> ➤ Minimum distance of illuminated objects
The projector needs to be positioned so that the objects hit by the beam of light are at least 0.8 metres from the lens of the projector. |
| <p>t_a 45°C</p> | <ul style="list-style-type: none"> ➤ Maximum ambient temperature
Do not operate the fixture if the ambient temperature (T_a) exceeds 45°C (113°F). |
| <p>t_c 90°C</p> | <ul style="list-style-type: none"> ➤ 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 90°C (194°F). |
| <p>IP20</p> | <ul style="list-style-type: none"> ➤ 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). |
|  | <ul style="list-style-type: none"> ➤ Indoor use only |
|  | <ul style="list-style-type: none"> ➤ Not suitable for household illumination |
|  | <ul style="list-style-type: none"> ➤ 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. |
|  | <ul style="list-style-type: none"> ➤ Mounting surfaces
It is permissible to mount the fitting on normally flammable surfaces. |
|  | <ul style="list-style-type: none"> ➤ The products to which this manual refers comply with the European Directives pursuant to: <ul style="list-style-type: none"> • Safety of electrical equipment supplied at low voltage (LVD)
EN 60598-1:2015
EN 60598-2-17:1989+A2:1991 • Electromagnetic Compatibility (EMC)
EN 55015:2013/A1:2015
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 61547:2019 • Restriction of the use of certain hazardous substances (RoHS)
2011/65/EU |



Protection against electrical shock

Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.



➤ Disposing

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



➤ Battery

This product contains a rechargeable lead-acid or lithium iron tetraphosphate battery. To preserve the environment, please dispose of 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 years in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

The projector should be installed outside areas where persons may walk by or be seated.

Important! Overhead rigging requires extensive experience CE, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and or damage to property.

The projector has to be installed out of the reach of people.

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

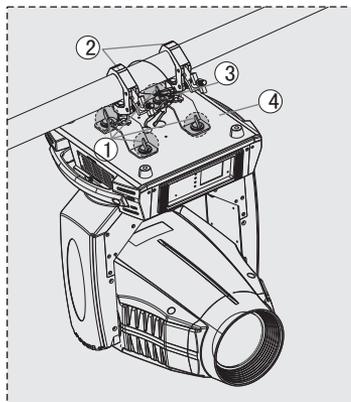
Caution Projectors may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the projector!

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

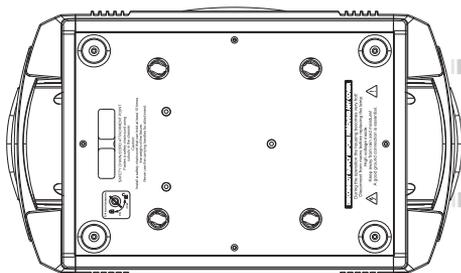
The projector can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics.

For overhead use, always install a safety-rope that can hold at least 10 times the weight of the fixture. You must only use safety-ropes with screw on carabines. Pull the safety-rope through the two apertures on the bottom of the base and over the trussing system etc.

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



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



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.

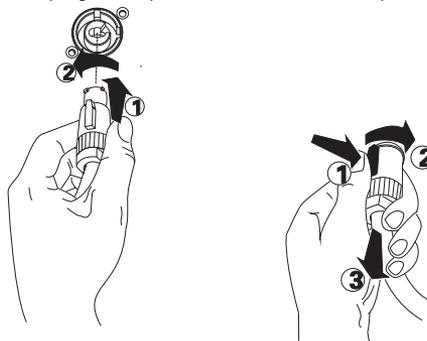
DISCONNECT SUPPLY BEFORE REMOVING ANY COVER
 During the operation the housing becomes very hot!
 Disconnect from mains before replacing the lamp.
 High voltage inside.
 Keep away from rain and moisture!
 A good ground connection is essential.

4.3 Power supply connection and cut off

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

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

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



4.4 Power Connection

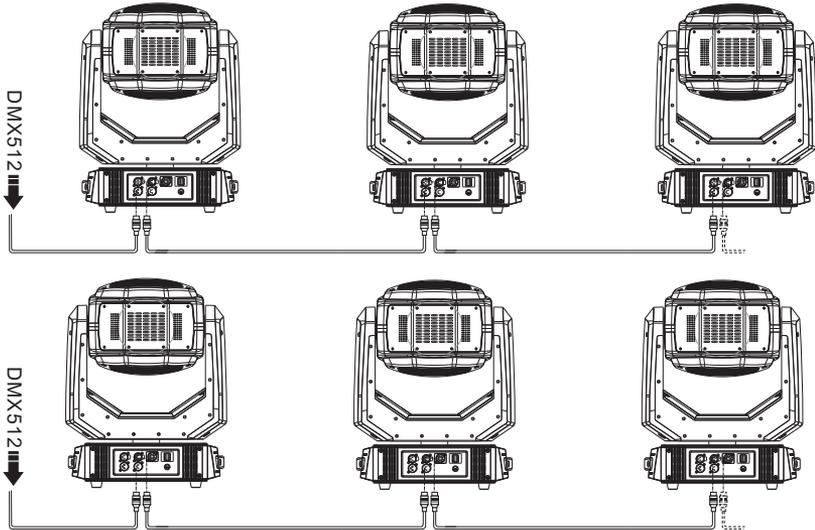
If you wish to change the power supply settings, see the chapter appendix Connect the fixture to the mains with the enclosed power cable and plug.

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

CABLE(EU)	CABLE(US)	Pin	INTERNATIONAL
Brown	Black	Live	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



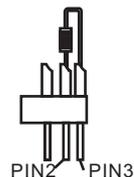
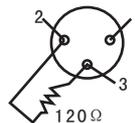
- 1: Ground
- 2: Signal (-)
- 3: Signal (+)



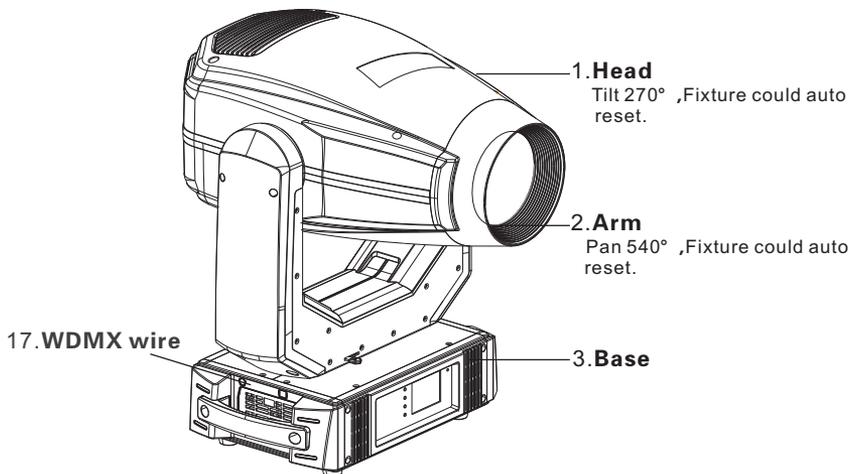
- 1: Ground
- 2: Signal (-)
- 3: Signal (+)
- 4: N. A.
- 5: N. A.

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.

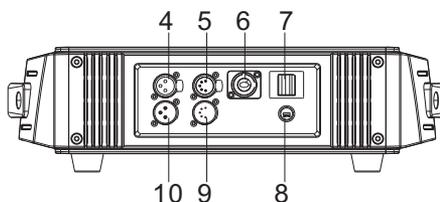


5. Description of the device



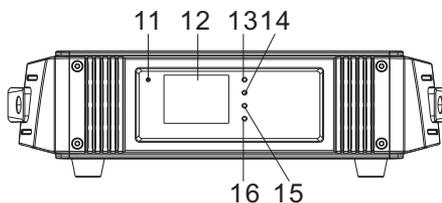
BACK PANEL

- 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

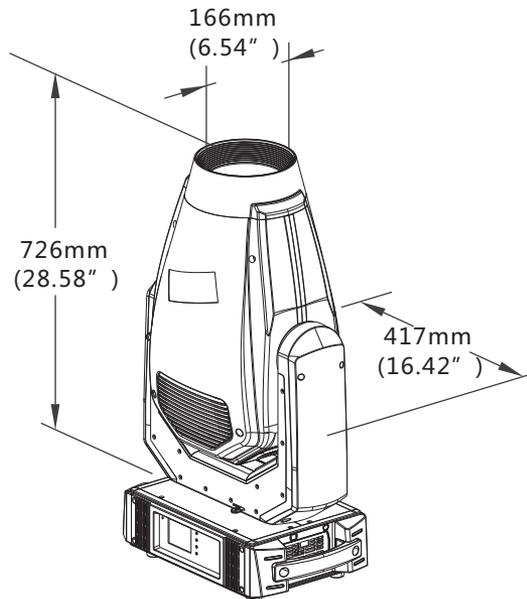
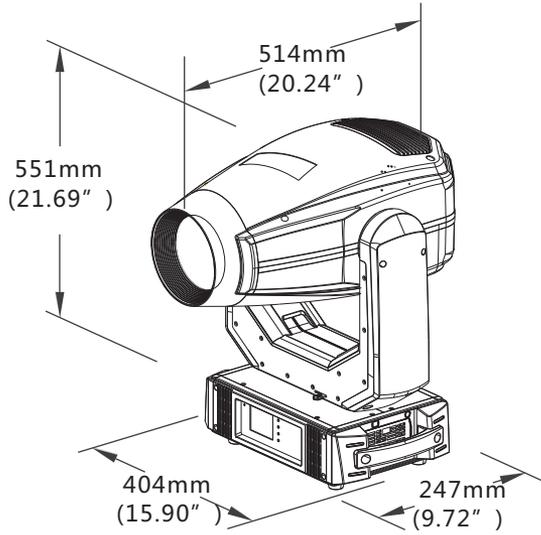


CONTROL PANEL

- 11. Status indicator lamp
- 12. Touch screen
- 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).

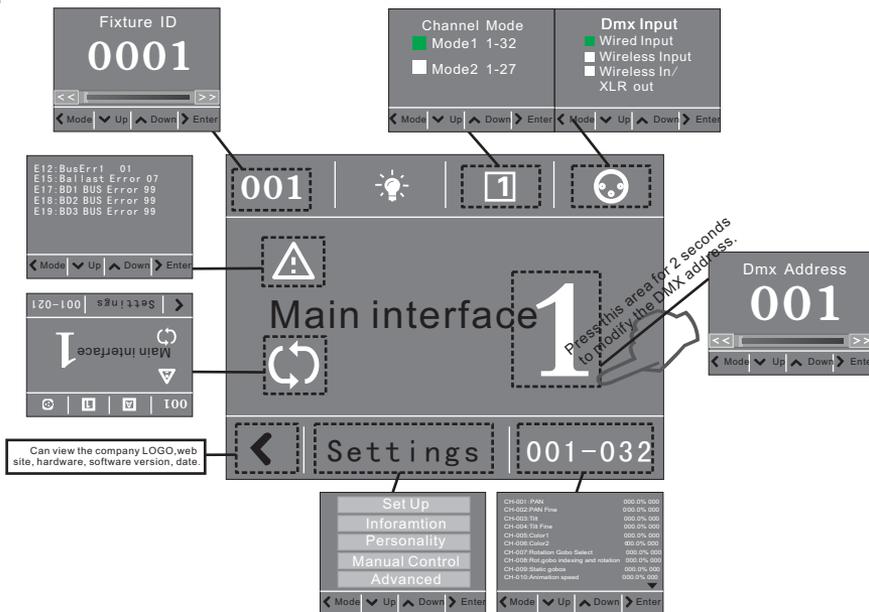
Press the MODE button to return to menu. Set a time 1 to 10 minutes automatically exit menu interface and close the screen.

7.2 Display Operation

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

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

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 menu of the icon and value to view set of the relevant lighting information. If there is symbol of the "△" on the display, it indicates that the device may be wrong, if the symbol was blue, the contents are errors appeared, click to clear. When the symbol is yellow, you can click on the view and according to the references information to modify. If there is any doubt, please consult the relevant technical personnel. (-for details see attached table).

CODE #	ERRO INFO	CHECK MEASUREMENT	NOTE
E001	SpiFlashError	Check the welding of memory IC	RESET ERROR
E002	BD1Init Error	Check the communication signal 485& 485 chip & memory IC	
E003	BD2Init Error		
E004	BD3Init Error		
E005	BD4Init Error		
E006	BusErr1		
E007	SPDError	Check the welding of master IC	
E008	BD1 BUS Error	Check the communication signal& welding of communication chip	
E009	BD2 BUS Error		
E010	BD3 BUS Error		
E011	BD4 BUS Error		
E012	Pan FB. Err	Check the light coupling line, optical coupling switch and a plate of the relative position measurement	
E014	Tilt FB. Err		
E013	Pan Zero Err	Check cable of sensor, distance and location of ,magnets and sensor	
E015	Tilt Zero Err		
E016	Prism Err1		
E017	Focus Err		
E018	Zomm Err		
E019	R.Gobo Err		
E020	Gobo RTerr		
E021	ColourW1 Err		
E022	ColourW2 Err		
E023	St.Gobo Err		
E024	BFan Error		
E025	LED Fan1 Error	Check the fan of Head LED	
E026	LED Fan2 Error		
E027	ArtNet Mdl Err	Check the fan of ArtNet、communication signal	

7.3 Unit Menu

			Remark
Set up	Dmx Address	001-XXX	
	Channel Mode	Mode1 1-32	Default:Mode1
		Mode2 1-27	
Fixture Id	0001~9999		
Information	Fixture Times	xxxx H xx M	
	LED Times	Led Times xxxx H xx M	
		Reset LED Time	
	Error List		
	Diagnosis	BOARD 1: XX.XX%	
		BOARD 2: XX.XX%	
		BOARD 3: XX.XX%	
	Fans Monitor		
	DMX Values		
DMX Diagnosis			
Personality	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	Optional
		Wireless In/XLR out	
	Language	English	Default:English
		简体中文	
	Screen	Brightness	
		Screen Time out 0-10m	
		Touch Screen ON/OFF	Default:OFF
		Auto Screen ON/OFF	Default:ON
Fan Mode	Auto	Default	
	High		
	Silence mode		
Manual Control	Reset	Reset ALL	
		Reset Pan/Tilt	
		Reset Colour	
		Reset Gobo	
		Reset other	
	Channel		
Advanced	Calibration	Input Password xxxx	
	Factory Default	ON/OFF	
	Touch Calibration		

8.DMX protocol

Mode 1	Mode 2	Fade Type	Function	Dmx Value
1	1	Pan	Pan 0-540°	0-255
2		Pan Fime	Pan Fime	0-255
3	2	Tilt	Tilt 0-270°	0-255
4		Tilt Fime	Tilt Fime	0-255
5	3	Color 1	Whatever Position	
			Open	0
			Color 1	14
			Color 2	30
			Color 3	44
			Color 4	58
			Color 5	72
			Color 6	86
			Color 7	100
			Color 8	114
			Open	127
			Position	
			Color 1	128-135
			Color 2	136-143
			Color 3	144-151
			Color 4	152-159
			Color 5	160-167
			Color 6	168-175
			Color 7	176-183
			Color 8	184-191
			CW, Fast→Slow CW	192-217
			Stop	218-219
			CCW,Slow→Fast CCW	220-245
Random color Fast→Slow	246-255			
6	4	Color 2	Whatever Position	
			Open	0
			Color 1	14
			Color 2	30
			Color 3	44
			Color 4	58
			Color 5	72
			Color 6	86
			Color 7	100
			Color 8	114
			Open	127
			Position	
			Color 1	128-135
			Color 2	136-143
			Color 3	144-151
			Color 4	152-159
			Color 5	160-167
			Color 6	168-175
			Color 7	176-183
			Color 8	184-191
			CW, Fast→Slow CW	192-217
			Stop	218-219
			CCW,Slow→Fast CCW	220-245
Random color Fast→Slow	246-255			
7	5	Rotation Gobo Select	Gobo Position – set rotation on channel 8(Mode 1), 6(Mode 2)	
			Empty position	0-4
			Gobo 1	5-7
			Gobo 2	8-10
			Gobo 3	11-13
			Gobo 4	14-16
			Gobo 5	17-19

Mode 1	Mode 2	Fade Type	Function	Dmx Value					
7	5	Rotation Gobo Select	Gobo 6	20-22					
			Gobo 7	23-25					
			Rotation – set rotation on channel 8(Mode 1)、6(Mode 2)						
			Gobo 1	26-28					
			Gobo 2	29-31					
			Gobo 3	32-34					
			Gobo 4	35-37					
			Gobo 5	38-40					
			Gobo 6	41-43					
			Gobo 7	44-46					
			Gobo Shakes at variable speed from slow to fast						
			Gobo 1	47-70					
			Gobo 2	71-94					
			Gobo 3	95-118					
			Gobo 4	119-142					
			Gobo 5	143-166					
			Gobo 6	167-190					
			Gobo 7	191-214					
			Empty position	215-220					
			Forwards gobo wheel rotation from fast to slow			221-235			
			No rotation			236-240			
			Backwards gobo wheel rotation from slow to fast			241-255			
			8	6	Rot. gobo indexing and rotation	Gobo indexing – set position on channel 7(Mode 1)、5(Mode 2)			
						Gobo indexing _{0-360°}	0-255		
						Gobo rotation – set position on channel 7(Mode 1)、5(Mode 2)			
						No rotation	0-2		
						Forwards gobo rotation from fast to slow			3-126
No rotation	127-129								
Backwards gobo rotation from slow to fast						130-253			
No rotation	254-255								
9	7	Static gobos	Continuous FX wheel scrolling						
			Open	0					
			Open → Gobo1	1-9					
			Gobo 1	10					
			Gobo 1 → Gobo 2	11-19					
			Gobo 2	20					
			Gobo 2 → Gobo 3	21-29					
			Gobo 3	30					
			Gobo 3 → Gobo 4	31-39					
			Gobo 4	40					
			Gobo 4 → Position 5	41-49					
			Position 5	50					
			Position 5 → Position 6	51-59					
			Position 6	60					
			Position 6 → Position 7	61-69					
			Position 7	70					
			Position 7 → Position 8	71-79					
			Position 8	80					
			Position 8 → Position 9	81-89					
			Position 9	90					
			Position 9 → Open	91-99					
			Open	100-110					
			Stepped FX wheel scrolling						
			Gobo 1	111-115					
			Gobo 2	116-120					
			Gobo 3	121-125					
			Gobo 4	126-130					
Position 5	131-135								
Position 6	136-140								
Position 7	141-145								
Position 8	146-150								

Mode 1	Mode 2	Fade Type	Function	Dmx Value		
9	7	Static gobos	Position 9	151-155		
			Open	156-160		
			CW FX wheel rotation, fast →slow	161-189		
			FX wheel stops at its current position	190		
			CCW FX wheel rotation, slow ² →fast	191-219		
			No function	220-226		
			Animation movement functions: set speed on channel 10 (Mode1) or 8 (Mode2)			
			Smooth	227-229		
			Organic	230-232		
			Metronome	233-235		
			Run forwards, fast rewind	236-238		
			Run backwards, fast rewind	239-241		
			Random gobo functions: set time on channel 10 (Mode1) or 8 (Mode2)			
			Random animation range position	242-249		
			Random gobo position	250-252		
Random FX wheel position	253-255					
10	8	Animation speed	Stop	0-10		
			Animation speed slow → fast	11-255		
11	9	Blade 1	Blade Out → Blade In	0-255		
12	10	Blade 2	Blade Out → Blade In	0-255		
13	11	Blade 3	Blade Out → Blade In	0-255		
14	12	Blade 4	Blade Out → Blade In	0-255		
15	13	Blade 5	Blade Out → Blade In	0-255		
16	14	Blade 6	Blade Out → Blade In	0-255		
17	15	Blade 7	Blade Out → Blade In	0-255		
18	16	Blade 8	Blade Out → Blade In	0-255		
19	17	Framing Rotation	Framing Rotation 0-90°	0-255		
20	18	Prism insertion	Prism out	0-9		
			set position on channel-21 (Mode 1), 19 (Mode 2)			
			Prism indexing	10-59		
			Prism rotation	60-109		
			Unused Range	110-255		
21	19	Prism rotation	Prism indexing – set position on channel, 20 (Mode 1), 18 (Mode 2)			
			Prism indexing	0-255		
			Prism rotation – set position on channel, 20 (Mode 1), 18 (Mode 2)			
			No rotation	0-2		
			Forwards Prism rotation from fast to slow	3-127		
22	20	Pattern selection	No rotation	128-129		
			Backwards Prism rotation from slow to fast	130-255		
			Open	0-9		
			The channels are blocked: Pris, Colour wheel 1 and 2, Static gobo, Rotating gobo, Frost, Blade, Frost, Zoom.			
			Pattern 1	10-14		
Pattern 2	15-19					
Pattern 3	20-24					
Pattern 4	25-29					
Pattern 5	30-34					
Pattern 6	35-39					
Pattern 7	40-44					
Pattern 8	45-49					
Pattern 9	50-54					
Pattern 10	55-59					
Pattern 11	60-64					
Pattern 12	65-69					
Pattern 13	70-74					
Pattern 14	75-79					
Pattern 15	80-84					
Pattern 16	85-89					
Raw DMX	90-255					
23	21	Frost	Focus moves linearly into the light beam	0-255		
24	22	Iris	Iris linearly open from minimum to maximum aperture	0-131		

Mode 1	Mode 2	Fade Type	Function	Dmx Value		
24	22	Iris	Iris pulsation from slow to fast speed	132-171		
			Iris pulsation from slow to fast speed with fast opening	172-211		
			Iris pulsation from slow to fast speed with fast closing	212-251		
			Maximum aperture	252-255		
25	23	Zoom	Zoom linearly moves from narrow to wide beam	0-255		
26		Zoom Fine	Fine Zoom positioning	0-255		
27	24	Focus	Focus moves linearly from far to near position	0-255		
28		Focus Fine	Fine focus positioning	0-255		
29	25	Stopper/Strobe	Close	0-3		
			STROBE SLOW→FAST	4-103		
			Open	104-107		
			PULSATION SLOW→FAST	108-207		
			Open	208-212		
			Random Strobe SLOW→FAST	213-251		
Open	252-255					
30	26	Dimmer	Dimmer 0-100%	0-255		
31		Dimmer Fine	Dimmer Fine	0-255		
32	27	Function	Unused Range	0-70		
			Disable zoom/focuslinking - 5 sec.	71-79		
			Enable zoom/focus linking,near distance(5meters) (default setting)-5 sec.	81-89		
			Enable zoom/focus linking,ediumdistance(8meters) - 5 sec.	91-99		
			Enable zoom/focus linking, far distance(12meters) - 5 sec.	100-109		
			To activate following functions , stop in DMX value for at least 5 sec.			
			Reset Complete	110-119		
			Reset Pan/Tilt	120-129		
			Reset Color	130-139		
			Reset Gobo-Static gobos,Rotation Gobo Select,Blade,Framing Rotation.	140-149		
			Reset Other-Iris,Prism,Frost,Zoom,Focus.	150-159		
			Dimmer Curve 1 =linear	160-169		
			Dimmer Curve 2 =Gamma1.5	170-179		
			Dimmer Curve 3 =Gamma2.0	180-189		
Dimmer Curve 4 =S	190-199					
Fans mode: High	200-209					
Fans mode: Auto	210-219					
Fans mode: Silence	220-229					
Unused Range	230-255					

9.Maintance and cleaning

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

LED

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

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

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

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

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

It is absolutely essential that the fixture is kept clean and that dust,dirt and smoke fluid residues must not build up on or within the fixture. Otherwise, the fixtures light-output will be significantly reduced.Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably through out its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circum stances should alcohol or solvents be used!

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The gobos may be cleaned with a soft brush, The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet.

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

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

10. Electric equipment specification

10.1 Electrical parameters

SOURCE: 400W White LED

POWER: 500W

VOLTAGE: AC 100-240V 50/60HZ

Color temperature: 8000K

10.2 Weight and dimensions

Dimensions : 514X417X551mm

NET WEIGHT: 28Kg

Dimensions (Carton package) : 521X506X816mm

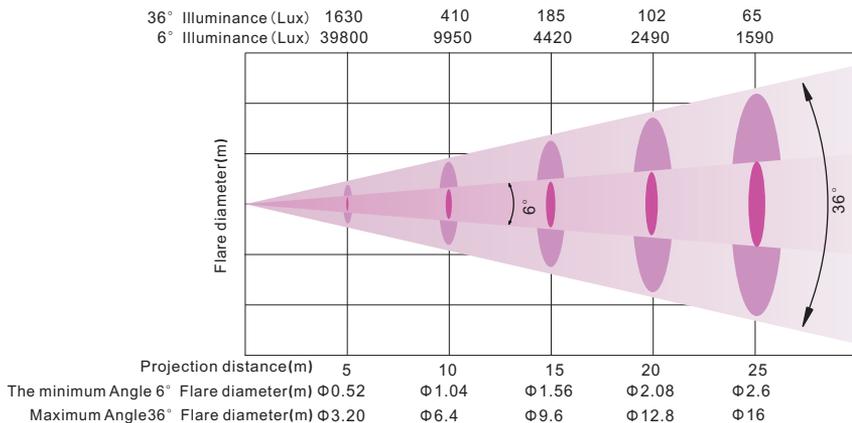
10.3 Channel Characteristics

1. Channel: 32, 27 DMX-512.
2. Scan: Pan 540° , Tilt 270° , Scan speed adjustable. Fixture could auto reset.
3. Colour wheel: one open+8 colors, half-color effects.
4. Gobo wheel: one open+7 gobos. Fix gobo wheel: one open+4 gobos+1 Effect.
5. Prism system: 1 rotating of faces.
6. Zoom: linear amplifier.
7. Focus: linear focus with auto function.
8. Dimmer: electronic dimming, linear dimmer.
9. Strobe: electronic strobe, with strobe mode of synchronistical, pulse and random.
10. Iris: linear adjustment from minimum to maximum.
11. Framing Rotation.

10.4 Menu Function

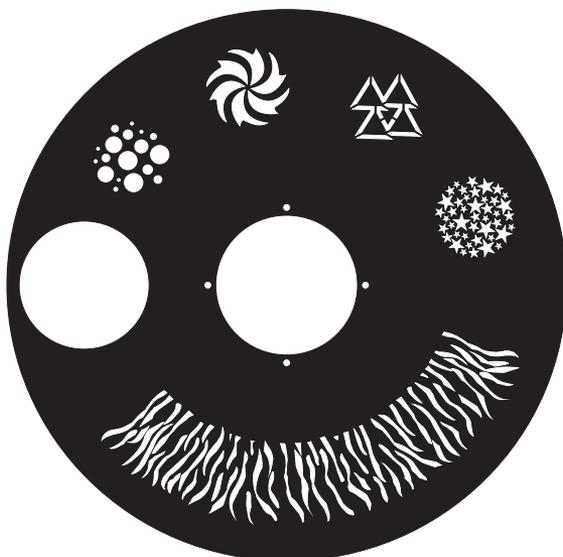
1. Touch screen, English/Chinese menu.
2. Each DMX Value displayable.
3. Time of automatic turning off is able to set on the display, when operating pan/tilt, Color and gobos, strobe are turn off and able to set freely.
4. Display the time using of lighting feature and lamp as well as the times of turning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

10.5 light table



10.6 Gobo wheel

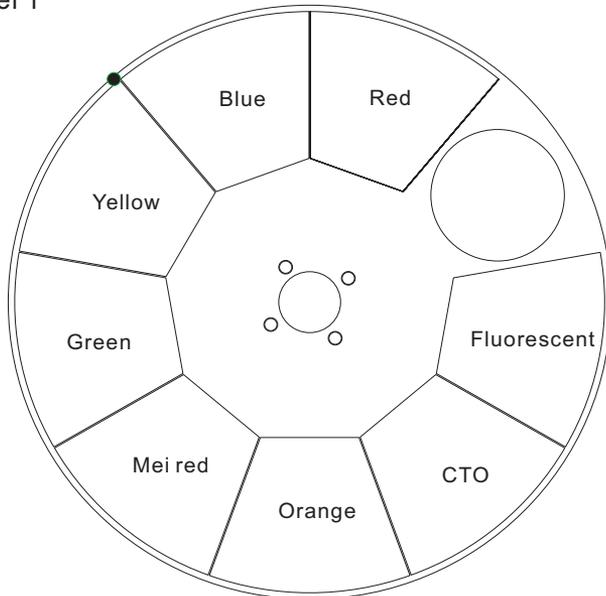
Fix gobo wheel



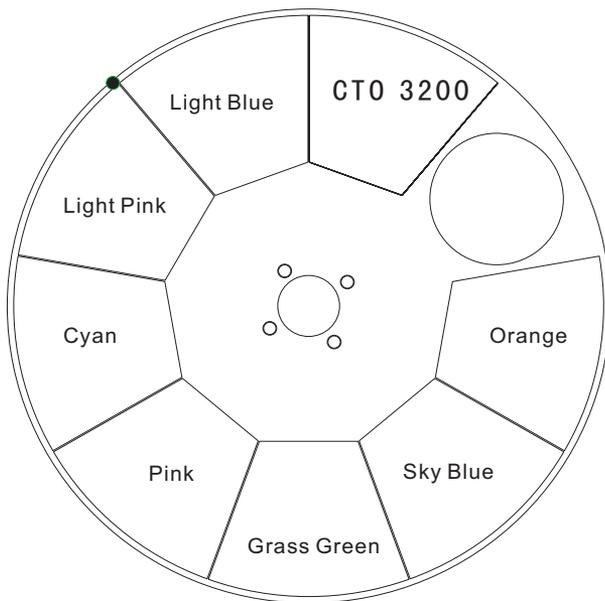
Rgobo wheel



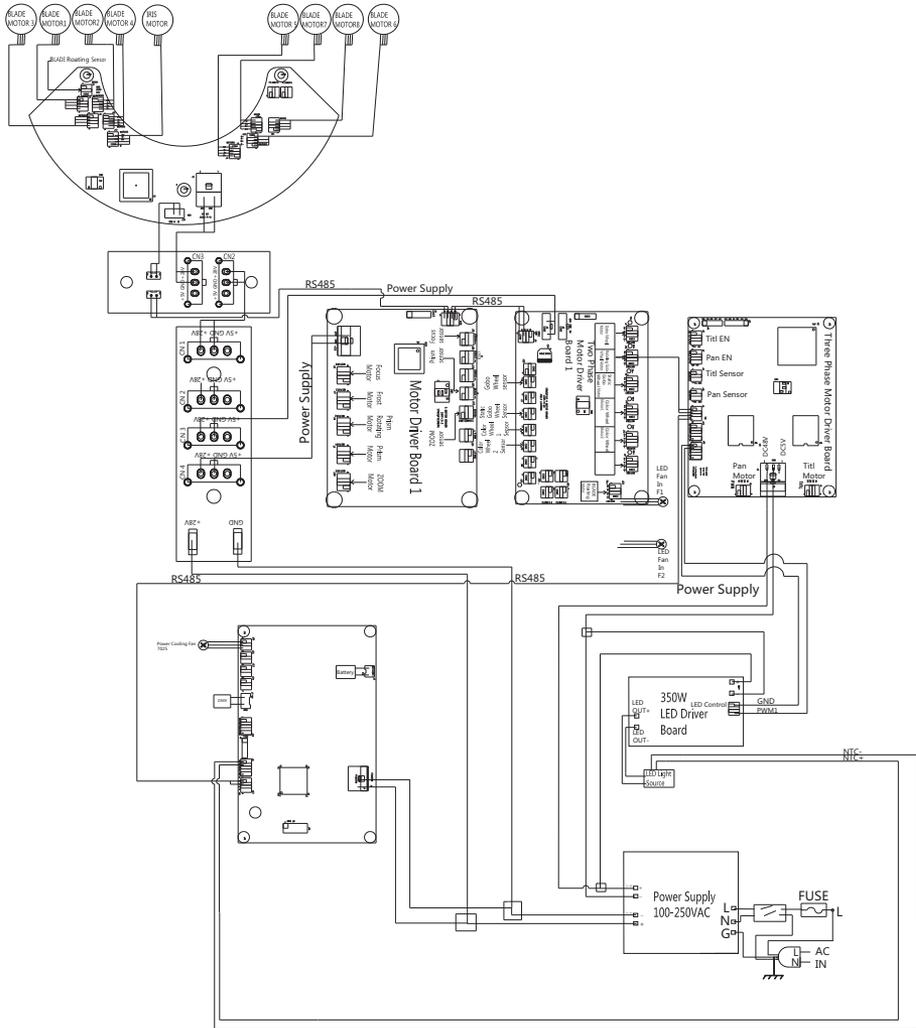
10.7 Color wheel
Color wheel 1



Color wheel 2



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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