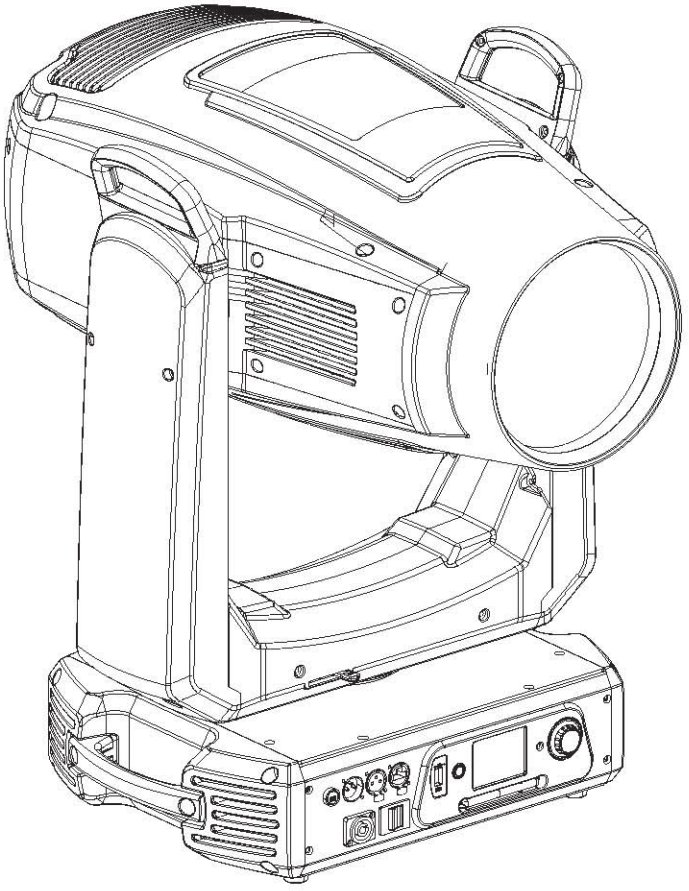
USER MANUAL



CE

Version:1.1

NOVALIGHT

Table of content

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 inform ation of this pro ducts.Plese refere this manual's relative instruction when using this equipment.

This equipment is made of new style,high intensity plastic.It fully shows the modem times light charac teristic with teristic with beauty struture. And it is made accord to CE standard. Fully agree with the internation standard of DMX 512 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.Safty cable-1PC
3.User Manval-1PC
4.Omega holder-2PCS
5.Power cable-1PC
5.Service card-1PC

1 . 1 Package

Unpacking the fixture

1.Open the flight case cover .

2.With one person on each side, lift the fixture out of the flight case.

3.Unlock tilt before operating fixture.

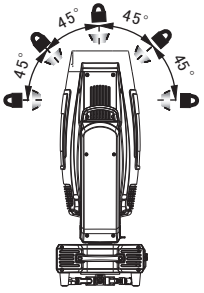
Packing the fixture

1.Disconnect the fixture from power and allow it to cool.

2.Lock h ead as figure.(Tilt Mechanism Lock and Release (every 45°)- Fig.1-1)

3.Place the fix ture in the bottom of the flight case, and cover the case without forcing.

Transportation lock Fig.1



Tilt Mechanism Lock Fig.1-1

2.Safety instructions

Every person involvd with installation and maintenance of this device to:
-Be qualilfied
-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 toensure a safe operation,it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Important:

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

➢Never let the power-cord come into contact with other cables! Handle the power cord and all connections with particular caution!
➢Make sure that the available voltage is not higher than stated on the rearpanel.
➢Always plug in the power plug least. Make 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 5 metres from the lens of the projector.

t_a40 °C

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

t_c80 °C

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

IP20

➢IP20 protection rating
The fitting is protected against penetration by solid of over 12mm（0.47" ）in diameter（first digit 2), but not against dripping water,rain,splashes or jets of water (second digit 0).

➢Indoor use only

➢Not suitable for household illumination

➢Photobiological Safety
CAUTION. Do not look directly at the light source.Do not look at the light beam with optical devices or any other tool that could cause light convergence.
The fixture must be positioned so that the minimum distance between the front lens and human eye is at least 3metres 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:
- 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 the projectors from indirect contact and/orshorting 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/recycde this product at the end of its life according to the local regulation.

➢Battery
This product contains a rechargeable lead-acid or lithium iron tetraphosphate battery.To preserve the environment,please dispose the battery at the end of its life according to the regulation in force.

➢Lamp
-Immediately replace the lamp if damaged or deformed by heat.

➢Maintenance
Before starting any maintenance work or cleaning the projector,cut off power from the mains supply. After switching off, do not remove any parts of the fitting for at least 10 minutes. After this time the like lihood 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 ha been exposed to drastic temperature fluctuation(e.g.after transportation).do not weitch 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 life 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 fastend.

➢The lamp must never be ignited if the objective-lens or any housing-cover is open, as discharge lamps may explose and emit a hign ultraviolet radiat, 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!

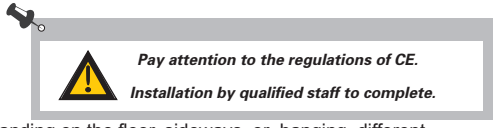
➢Please use the original packaging if the device is to be transported.

➢Please consider that unauthorized modifications on the device are forbidden due to safety reasonsl.

➢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 shict,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 norm s 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 m ay walk by or be seated.

Important!Overhead rigging requires extensive expering 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 bodilyinjury 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 system s have to be used. The projector must never be fixed swinging freely in the room .

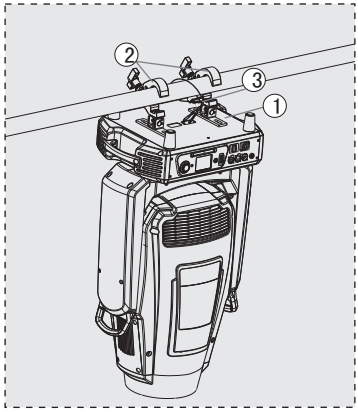
Caution Projectors may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the projector!

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

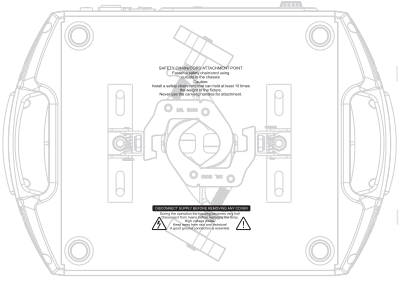
The projector can be placed directly on the stage floor or rigged in any orientation on atruss without altering its operation characteristics.

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

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



①	mounting plate
②	omega holder
③	secure chain



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.

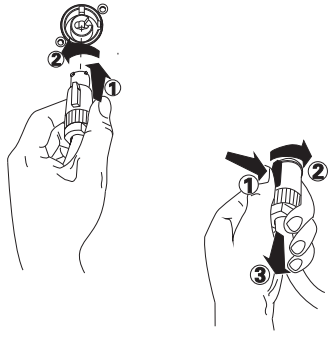
DISCONNECT SUPPLY BEFORE REMOVING ANY COVER
During the operation the housing becomes very hot!
Disconnect from mains before replacing the lamp.
High voltage inside.
Keep away from rain and moisture!
A good ground connection is essential.

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

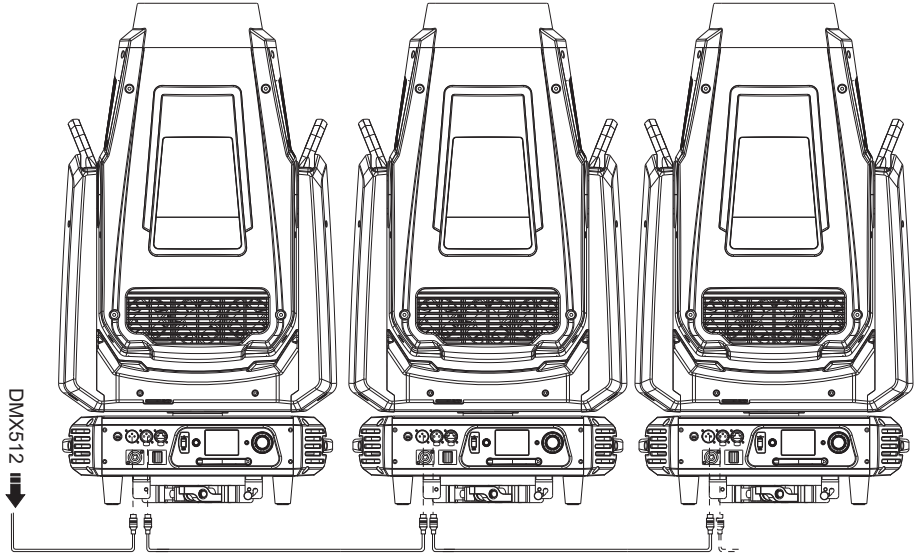
If you wish to change the power supply settings, see the chapter appendix Connect the fixture to the mains with the enclosed power cable and plug.

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 shieded 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 terminatou. 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 iutput
3-pin XLR socket

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

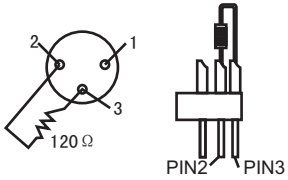
DMX output
5-pin XLR socket

DMX iutput
5-pin XLR socket

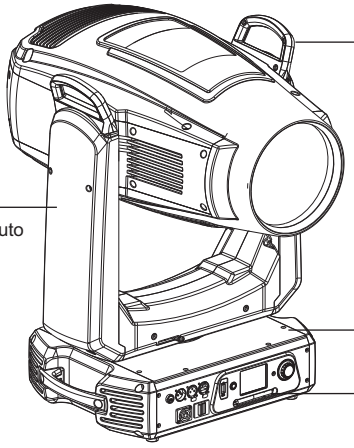
1 : Ground
2 : Signal (–)
3 : Signal (+)
4 : N. A.
5 : N. A.

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 help in preventing corruption of the signal by electrical noise. The DMX terminato r is simply an XLR plug witha 120Ω resistor connected between pins 2 and pins3, which is then plugged into a the output XLR socket of the last ifxture in the chain.



5.Description of the device



1. **Head**
   Tilt 270° ,Fixture could auto reset.

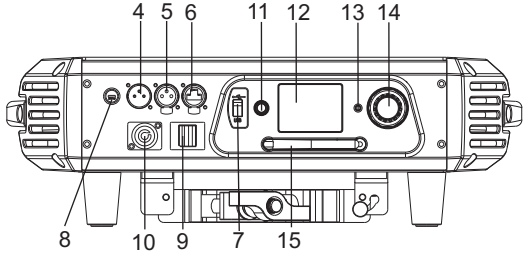
2. **Arm**
   Pan 540° ,Fixture could auto reset.

3. **Base**

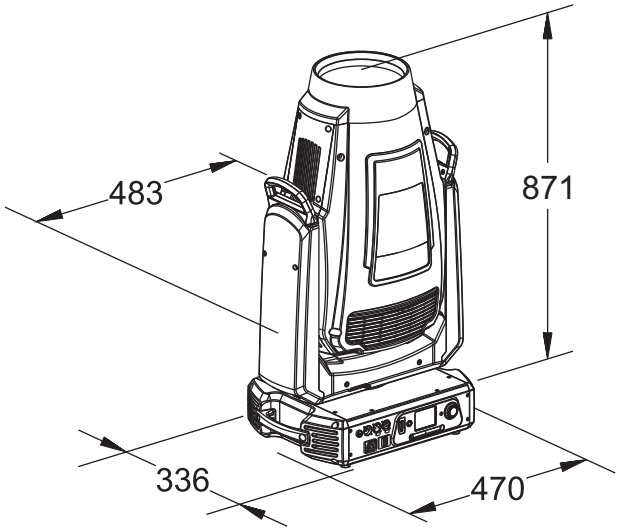
17. **WDMX wire**

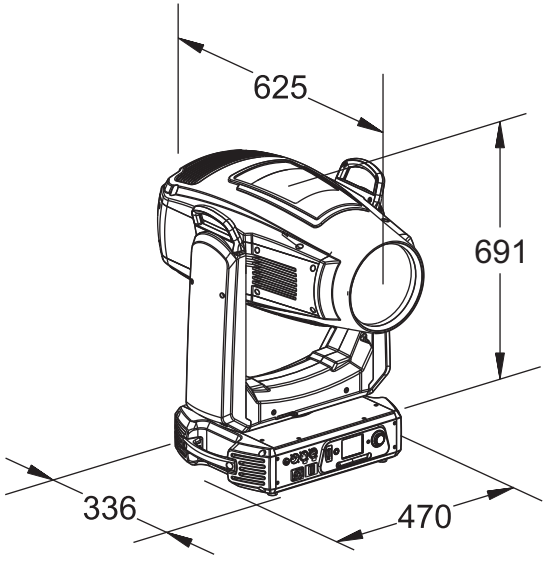
Display panel

4. 3-pin XLR male
5. 3-pin XLR female
6. Network interface
7. USB interface Power-in
8. Main Fuse
9. Network interface
10. Power switch
11. Small button
12. Display
13. Status indicator lamp
14. Knob
15. 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.

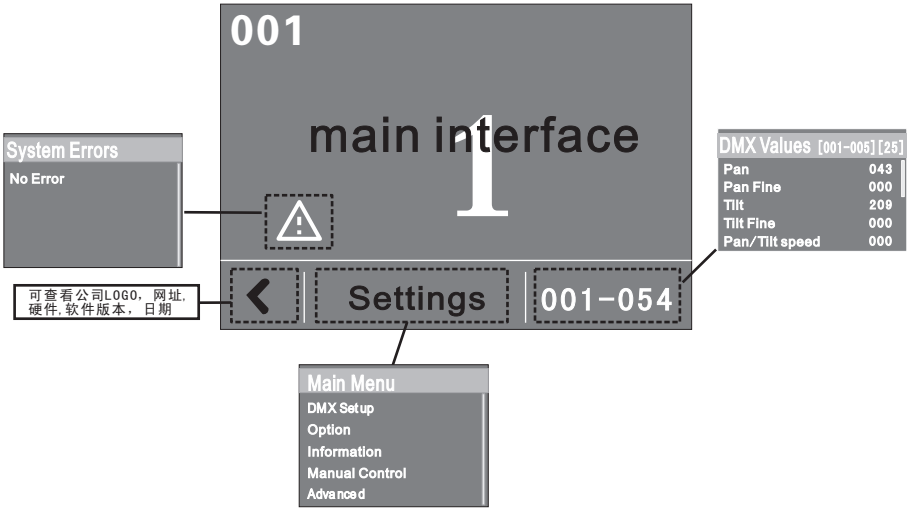
7.2 Display Operation

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 thelamps 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.



menu interface

7.3 Menu

DMX Setup	DMX Address	001*–XXX	
	Channel Mode	Mode 1*	
		Mode 2	
		Mode 3	
	Fixture Id	000*–512	
	Dmx Input	Wire Input*	
		Wileless Input	Under the module with
		Wireless IN/XLR Out	
		Ethernet input	
		Ethernet IN/XLR Out	
	RDM	ON*/OFF	
Option	Pan Invert	ON/OFF*	
	Tilt Invert	ON/OFF*	
	Feedback	ON*/OFF	
	Pan/Tilt Mode	Speed*/Time	
	Frequency Setup	1200Hz/2400Hz*/6000Hz/30000Hz/Custom	
	Fan Mode	Auto*/High/Silence	
	Blackout Settings	Blackout Enable	ON/OFF*
		While P/T Moving	ON/OFF*
		While Gobo Moving	ON/OFF*
		While Colour Moving	ON/OFF*
	Dimmer Curve	Liner*/Square/Theatrical/Inv. Square	
	Dimmer Speed	Fast*/Smooth	
	Disaplay	ON/OFF*	
	Auto Screen	ON*/OFF	
	Touch Screen	ON*/OFF	
	Ethernet	ON/OFF* (password:0921)	
	Wireless	ON/OFF* (password:0921)	
	Language	English/中文	
Information	System Errors	…	
	Fixture Hours	Resettable Time	
		Total Time	
	LED Hours	Resettable Time	
		Total Time	
	DMX Values	……	
	Fixture Temperatures	LED Temperature xx ℃/ xx℉	
		Power Temperature xx ℃/ xx℉	
		Base Temperature xx ℃/ xx℉	
	Firmware Version	xx.xx	
	Hardware Version	Hx	
	RDM UID	xxxxx	
Manual Control	Reset Functions	Total Resest	
		Pan/Tilt Reset	
		Colour System Reset	
		Gobo/Effect Reset	
		Optics/Prism/Frost Reset	
		Iris/Framing Reset	
	Channels	……	
Advanced	Calibration	Input Password：xxxx	
	Menu Locking	OFF/ON/Enter Password	
	Factory Default	ON/OFF	
	Touch Calibration		

8.DMX protocol

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
1	1	1	Pan	Pan	0–255
2	2	2	Pan Fine	Pan Fine	0–255
3	3	3	Tilt	Tilt	0–255
4	4	4	Tilt Fine	Tilt Fine	0–255
5	*	*	Pan/Tilt speed	Standard mode (0=default)	0
				Speed from max. to min	1–255
6	5	5	Function	Unused Range	0–19
				To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. (Channel „Shutter/ Strobe" 52/34/32 must be at range: 0–31DMX). Corresponding menu items are temporarily overridden except DMX input .	
				Graphic display: ON	20–24
				Graphic display: OFF	25–29
				Reserved	30–39
				Dimmer Speed:Fast*	40–44
				Dimmer Speed:Smooth	45–49
				Blackout while pan/tilt moving	50–54
				Disabled blackout while pan/tilt moving	55–59
				Blackout while Gobo moving	60–64
				Disabled blackout while Gobo moving	65–69
				Blackout while Color moving	70–74
				Disabled blackout while Color moving	75–79
				Fans mode: Auto	80–84
				Fans mode: High	85–89
				Unused Range	90–109
				Dimmer curve: Linear	110–114
				Dimmer curve: Square law*	115–119
				Dimmer curve: Theatrical	120–124
				Dimmer curve: Inv. Square	125–129
				To activate following functions, stop in DMX value for at least 3 seconds.	
				Fixture reset (except pan/tilt)	130–139
				Reset Pan/Tilt –5 sec	140–149
				Reset CMY, CTO, color 1 and color 2 – 5 sec	150–159
				Reset Rotation Gobo、Rotation Gobo RT、Static gobos、Animation –5 sec	160–169
				Unused Range	170–179
				Reset Focus、Zoom、Prism、Prism RT、Frost–5 sec	180–189
				Reset Iris、Blade、Framing Rotation–5 sec	190–199
				Reset ALL–5 sec	200–209
				Unused Range	210–240
				Quiet mode – fan noise control from min. to max.	241–255
7	*	*	LED frequency selection	PWM frequency from Display menu (fixture utilizes PWM frequency set in the display menu item Frequency Setup)	0–4
				1200 Hz	5–9
				2400 Hz*	10–14
				12000 Hz	15–19
				30000 Hz	20–24
				Custom	30–29
				Reserved (fixture utilizes PWM frequency set in the display menu item Frequency Setup)	30–255
8	*	*	LED frequency fine adjusting	Selected LED Frequency	0–1
				LED Frequency (step –126)	2
				LED Frequency (step –125)	3
				LED Frequency (step –124)	4
				.	.
				LED Frequency (step –3)	125
				LED Frequency (step –2)	126
				LED Frequency (step –1)	127
				Selected LED Frequency (128=default)	128
				LED Frequency (step +1)	129
				LED Frequency (step +2)	130
				LED Frequency (step +3)	131

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
8	*	*	LED frequency fine adjusting	.	.
				LED Frequency (step +124)	252
				LED Frequency (step +125)	253
				LED Frequency (step +126)	254
				Selected LED Frequency	255
9	*	*	Max. light intensity indication and setting	No function (0=default)	0–10
				Indication of drop of max. light intensity	11–20
				To set a drop of max. light intensity (compared to original light intensity), stay at DMX value for at least 3 sec. and shutter must be closed at least 3 sec. (Channel „ Shutter/ Strobe" 52/34/32 must be at range: 0–31 DMX). Corresponding menu items are permanently overwritten.	
				Set drop by 6–10% (RED)	21–30
				Set drop by 11–15% (GREEN)	31–40
				Drop by 16–20% (BLUE)	41–50
				Set drop by 21–25% (CYAN)	51–60
				Set drop by 26–30% (MAGENTA)	61–70
				Set drop by 31–35% (YELLOW)	71–80
				Set drop by 36–40% (ORANGE)	81–90
				Original intensity (WHITE)	91–100
				Reserved	101–255
10	6	6	Color 1	Open	0
				Whatever Position Open → Slot6	1–127
				Open	128–129
				Stepped Scroll(snap to full color pisitions)	
				Red	130–139
				Blue	140–149
				Orange	150–159
				Green	160–169
				Dark Blue	170–179
				Light Pink	180–189
				Continuous Rotation	
				CW，Fast → Slow CW	190–215
				Stop(This will stop the color wheel wherever it is at the time)	216–217
				CCW,Slow → Fast CCW	218–243
				Random color Fast → Slow	244–255
11	*	*	Colour 1 – fine	Fine positioning	0–255
12	7	7	Color 2	Open	0
				Whatever Position Open → Slot5	1–127
				Open	128–129
				Stepped Scroll(snap to full color pisitions)	
				Rainbow(Red+Blue+Green+Amber)	130–141
				Light Green	142–153
				Lavemger	154–165
				CRI 80	166–177
				CRI 90	178–189
				Continuous Rotation	
				CW，Fast → Slow CW	190–215
				Stop(This will stop the color wheel wherever it is at the time)	216–217
				CCW,Slow → Fast CCW	218–243
				Random color Fast → Slow	244–255
13	*	*	Colour 2 – fine	Fine positioning	0–255
14	8	8	Cyan	Cyan 0 → 100%	0–255
15	9	9	Magenta	Magenta 0 → 100%	0–255
16	10	10	Yellow	Yellow 0 → 100%	0–255
17	11	11	CTO	CTO 0 → 100%	0–255
18	*	*	Green correction	Uncorrected white	0
				Minus green –-> uncorrected white	1–127
				Uncorrected white	128
				Uncorrected white –-> Plus green	129–255
19	*	*	Virtual colour wheel	No function	0
				Filter 4	1–2
				Filter 10	3–4
				Filter 19	5–6
				Filter 26	7–8
				Filter 58	9–10
				Filter 68	11–12
				Filter 71	13–14

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
19	*	*	Virtual colour wheel	Filter 79	15–16
				Filter 88	17–18
				Filter 90	19–20
				Filter 100	21–22
				Filter 101	23–24
				Filter 102	25–26
				Filter 103	27–28
				Filter 104	29–30
				Filter 105	31–32
				Filter 106	33–34
				Filter 111	35–36
				Filter 115	37–38
				Filter 116	39–40
				Filter 117	41–42
				Filter 118	43–44
				Filter 119	45–46
				Filter 120	47–48
				Filter 121	49–50
				Filter 128	51–52
				Filter 131	53–54
				Filter 132	55–56
				Filter 134	57–58
				Filter 135	59–60
				Filter 136	61–62
				Filter 137	63–64
				Filter 138	65–66
				Filter 139	67–68
				Filter 141	69–70
				Filter 147	71–72
				Filter 148	73–74
				Filter 152	75–76
				Filter 154	77–78
				Filter 157	79–80
				Filter 158	81–82
				Filter 162	83–84
				Filter 164	85–86
				Filter 165	87–88
				Filter 169	89–90
				Filter 170	91–92
				Filter 172	93–94
				Filter 179	95–96
				Filter 180	97–98
				Filter 181	99–100
				Filter 197	101–102
				Filter 201	103–104
				Filter 202	105–106
				Filter 203	107–108
				Filter 204	109–110
				Filter 205	111–112
				Filter 206	113–114
				Filter 247	115–116
				Filter 248	117–118
				Filter 281	119–120
				Filter 285	121–122
				Filter 352	123–124
				Filter 353	125–126
				Filter 715	127–128
				Filter 778	129–130
				Filter 793	131–132
				Reserved	133–255
20	*	*	Effects Speed	Speed of CMY&CTO movement and Rot. Gobos selection	
				Speed of CMY+CTO movement from max. to min. (0=default)	0–255
				Speed of Rot. Gobos selection from max. to min	0–255
21	*	*	CMY+CTO+Colour wheels time	Function is off (0=default)	0
				Time of CMY, CTO and Colour wheels movement (0.1sec–->25.5sec)	1–255

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
22	*	*	Framing shutters/Zoom/Focus/Iris/Frost/Prism time	Function is off	0
				Time of framing shutters, zoom, focus, iris and frost movement (0.1sec-->25.5 sec)	1–255
				Time of prism movement (0.1 sec-->5 sec)	1–50
23	12	12	Effect wheel positioning	No function	0–19
				Proportional indexing (73–Center)	20–127
				Ramping from open to full position (max--->min. speed)	128–170
				Ramping from open to half position (max. --->min. speed)	171–213
				Ramp. from half position to full position (max. --->min. speed)	214–255
24	13	13	Effect wheel rotation	No function	0
				Forwards rotation from fast to slow	1–127
				No rotation	128
				Backwards rotation from slow to fast	129–255
25	*	*	Effect wheel animations	No animation	0–7
				Note :The following channels are blocked: Effect wheel positioning, Effect wheel rotation, Rotating gobo wheel, Rot. Goboindexing and rotation, Rot. Gobo wheel fine rotation.	
				Macro 1	8–9
				Macro 2	10–11
				Macro 3	12–13
				Macro 4	14–15
				Macro 5	16–17
				Macro 6	18–19
				Macro 7	20–21
				Macro 8	22–23
				Macro 9	24–25
				Macro 10	26–27
				Reserved	28–255
26	14	14	Rotating gobo wheel	Open/hole	0–4
				Index – set indexing on channel Mode1:27/25, Mode2:13, Mode3:13	
				Gobo 1	5–8
				Gobo 2	9–13
				Gobo 3	14–17
				Gobo 4	18–22
				Gobo 5	23–26
				Gobo 6	27–31
				Rotation – set rotation on channel Mode1:27/25, Mode2:13, Mode3:13	
				Gobo 1	32–35
				Gobo 2	36–40
				Gobo 3	41–44
				Gobo 4	45–49
				Gobo 5	50–54
				Gobo 6	55–59
				Shaking gobos from slow to fast	
				Gobo 1	60–71
				Gobo 2	72–83
				Gobo 3	84–95
				Gobo 4	96–106
				Gobo 5	107–118
				Gobo 6	119–129
				Shaking gobos from slow to fast	
				Gobo 1	130–141
				Gobo 2	142–153
				Gobo 3	154–165
				Gobo 4	166–176
				Gobo 5	177–188
				Gobo 6	189–199
				Open/hole	200–201
				Forwards gobo wheel rotation from fast to slow	202–222
				Backwards gobo wheel rotation from slow to fast	223–243
				Auto random gobo selection from fast to slow	244–255
27	15	15	Rot. gobo indexing and rotation	Gobo indexing – set position on channel Mode1:26/24, Mode2:12, Mode3:12	
				Gobo indexing	0–255
				Gobo rotation – set position on channel Mode1:26/24, Mode2:12, Mode3:12	
				No rotation	0

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
27	15	15	Rot. gobo indexing and rotation	Forwards gobo rotation from fast to slow	1–127
				No rotation	128
				Backwards gobo rotation from slow to fast	129–255
28	*	*	Fine Gobo Rotation	Fine Gobo Rotation	0–255
29	16	16	Static gobos	Static gobos	
				Empty position	0–6
				Gobo1	7–10
				Gobo2	11–14
				Gobo3	15–18
				Gobo4	19–22
				Gobo5	23–26
				Gobo6	27–30
				Gobo7	31–34
				Gobo8	35–38
				Empty position	39–42
				Gobo Shakes at variable speed from slow to fast.	
				Gobo1	43–62
				Gobo2	63–82
				Gobo3	83–102
				Gobo4	103–122
				Gobo5	123–142
				Gobo6	143–162
				Gobo7	163–182
				Gobo8	183–202
				Empty position	203–222
				Forwards gobo wheel rotation from fast to slow	223–237
				No rotation	238–240
				Backwards gobo wheel rotation from slow to fast	241–255
30	*	*	Reserved	Reserved	0–255
31	*	*	Reserved	Reserved	0–255
32	17	17	Prism 1	Open position	0–19
				Prism 1 indexing – set position on channel 33/16/16	20–73
				Prism 1 rotation – set position on channel 33/16/16	74–127
				The following channels are blocked: Prism 1, Prism 1 indexing/ rotation, Rotating gobo wheel, Rot. Gobo indexing and rotation, Rot. Gobo fine rotation.	
				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
33	18	18	Prism 1 indexing/rotation	Prism 1 indexing – set position on channel 32/15/15	0–255
				Prism 1 indexing - set position on channel 32/15/15	
				No rotation	0
				Forwards prism rotation from fast to slow	1–127
				No rotation	128
				Backwards prism rotation from slow to fast	129–255
34	19	19	Prism 2	Open position	0–19
				Prism 2 indexing – set position on channel 35/18/18	20–73
				Prism 2 rotation – set position on channel 35/18/18	74–127
				The following channels are blocked: Prism 2, Prism 2 indexing/ rotation, Rotating gobo wheel, Rot. Gobo indexing and rotation, Rot. Gobo fine rotation.	
				Macro 1	128–135
				Macro 2	136–143
				Macro 3	144–151
				Macro 4	152–159

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
34	19	19	Prism 2	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
35	20	20	Prism 2 indexing/rotation	Prism 2 indexing – set position on channel 34/17/17	0–255
				Prism 2 indexing – set position on channel 34/17/17	
				No rotation	0
				Forwards prism rotation from fast to slow	1–127
				No rotation	128
				Backwards prism rotation from slow to fast	129–255
36	21	21	Frost	Open	0
				Light Frost	
				Frost from 0% to 100%	1–50
				100% Frost	51–53
				Pulse closing from slow to fast	54–63
				Pulse opening from fast to slow	64–73
				Ramping from fast to slow	74–83
				Open	84–86
				Medium Frost	
				Frost from 0% to 100%	87–136
				100% Frost	137–139
				Pulse closing from slow to fast	140–149
				Pulse opening from fast to slow	150–159
				Ramping from fast to slow	160–169
				Open	170–255
37	22	22	Iris	Open	0
				From max. diameter to min. diameter	1–179
				Closed	180–191
				Pulse opening from slow to fast	192–219
				Pulse closing from fast to slow	220–247
				Random pulse opening (fast)	248–249
				Random pulse opening (slow)	250–251
				Random pulse closing (fast)	252–253
				Random pulse closing (slow)	254–255
38	*	*	Iris – fine	Fine iris movement	0–255
39	23	23	Zoom	Zoom from max. to min. beam angle	0–255
40	*	*	Zoom Fine	Fine Zoom positioning	0–255
41	24	24	Focus	Focus moves linearly from far to near position	0–255
42	*	*	Focus Fine	Fine focus positioning	0–255
43	25	25	Framing shutters module rotation	Rotation from right (0°) to 60°	0–127
				Centre	128
				Rotation from （60° ）to left (120°)	129–255
44	26	26	Framing shutter 1– movement/Blade 1	Blade Out → Blade In	0–255
45	*	*	Framing shutter 1– swivelling	Swivelling from –22.50 degrees towards 0 degrees	0–127
				0 degrees (128=default)	128
				Swivelling from 0 degrees to +22.5 degrees	129–255
46	27	27	Framing shutter 2– movement/Blade 2	Blade Out → Blade In	0–255
47	*	*	Framing shutter 2– swivelling	Swivelling from –22.50 degrees towards 0 degrees	0–127
				0 degrees (128=default)	128
				Swivelling from 0 degrees to +22.5 degrees	129–255
48	28	28	Framing shutter 3– movement/Blade 3	Blade Out → Blade In	0–255
49	*	*	Framing shutter 3– swivelling	Swivelling from –22.50 degrees towards 0 degrees	0–127
				0 degrees (128=default)	128
				Swivelling from 0 degrees to +22.5 degrees	129–255
50	29	29	Framing shutter 4– movement/Blade 4	Blade Out → Blade In	0–255

Mode1	Mode2	Mode3	Fade Type	Function	Dmx Value
51	*	*	Framing shutter 4– swivelling	Swivelling from –22.50 degrees towards 0 degrees	0–127
				0 degrees (128=default)	128
				Swivelling from 0 degrees to +22.5 degrees	129–255
*	30	30	Blade 5	Blade Out → Blade In	0–255
*	31	31	Blade 6	Blade Out → Blade In	0–255
*	32	32	Blade 7	Blade Out → Blade In	0–255
*	33	33	Blade 8	Blade Out → Blade In	0–255
*	34	*	Autofocus Distance	Disable zoom/focuslinking	0–55
				Enable zoom/focus linking, near distance(5 meters)	56–105
				Enable zoom/focus linking, near distance(8 meters)	106–155
				Enable zoom/focus linking, near distance(10 meters)	156–205
				Enable zoom/focus linking, near distance(12 meters)	206–255
*	35	*	Autofocus Adjustment	Unused range	0–19
				autofocus priority Blade	20–39
				autofocus priority Static Gobo	40–59
				autofocus priority rotation gobo	60–79
				autofocus priority Animation	80–99
				autofocus priority Iris	100–119
				Unused range	120–255
52	36	34	Stopper/Strobe	Close	0–31
				Shutter Open	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
				Random strobe–effect from slow to fast	192–223
				Shutter Open	224–255
53	37	35	Dimmer	Dimmer 0 → 100%	0–255
54	*	*	Dimmer Fine	Dimmer Fine	0–255

9.Maintance and cleaning

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

Ballast

Please change timely when each pin is getting yellow.

Be sure to maintain the device every 2 months, and make sure that all parts of the ballast, such as, screws, terminals, are locked well to ensure performance. Neglecting of maintenance may lead to failure of devices.

Lamp

Turn off the lamp 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 lamp should not exceed 20000 hours, otherwise it can damage device. Check the running time of the fixure regularly. When the lamp is used around 20000 hours, We strongly recommend that you change the lamp. After replacing it, the used time of lamp 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 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 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 usinga vacuum-cleaner or an air-jet.

There are no serviceable parts inside the device except for the lamp 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 paramters

SOURCE: 1400W White LED

Max POWER: 1700W

VOLTAGE: AC100-240V 50/60HZ

Color temperature：8300K

10.2 Weight and dimensions

Dimensions：483X336X871 mm

NET WEIGHT:48Kg

Dimensions (Air boxes- 1 lights) :489X540X894mm

NET WEIGHT/WEIGHT (Air boxes-1 lights):45Kg/93Kg

10.3 Channel Characteristics

1.Channel:54、37、35DMX-512.

2.Scan: Pan540° ,Tilt270° ,Scan speed adjustable.Fixture could auto reset.

3.Colour wheel: one open+6colors.half-color effects,CMY+CTO function.

4.Gobo wheel:one open+7 gobos.one , Fix gobo wheel :one open+9gobos+1position dynamic effects.

5. Prism system:1 rotating of faces.

6. Zoom:linear amplifier.

7. Focus:linear focus with auto function.

8.Demmer:electronic dimming,linear dimmer.

9. Strobe:electronic strobe,with strobe mode of synchronistical,pulse and random.

10. Multi cutting independent control, cutting components with rotation function.

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,

4. Display the time using of lighting feature and lamp as well as the times of turning on for lamp.

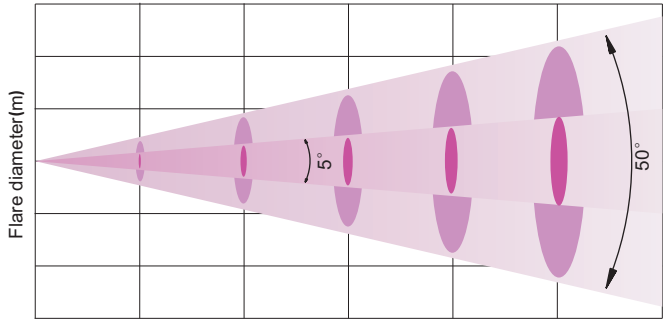
5. You can switch on and off the lamp via the control panel or via your DMX controller. It must be noted that it has to be cold before re-stricking.

6.After the DMX signal is disconnected, the display will be bright and dark.

7.Software upgrade function.

10.5 light table

50° Illuminance (Lux) (Lux)	3750	937	416	234	148
5° Illuminance (Lux) (Lux)	138000	34500	15333	8600	5500

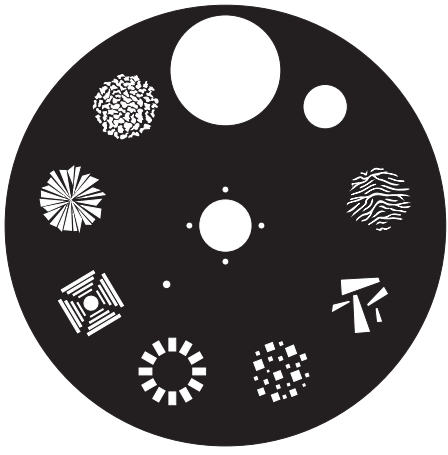


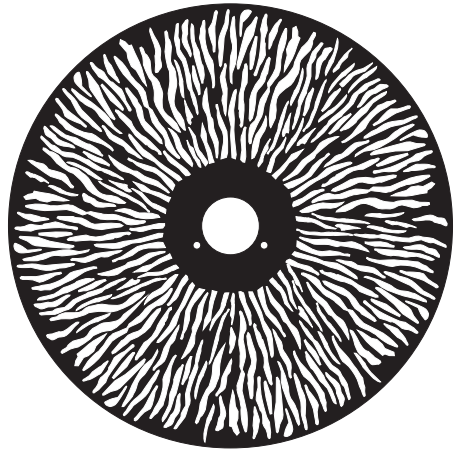
Projection distance(m)	5	10	15	20	25
The minimum Angle 5° Flare diameter(m)	Φ0.45	Φ0.9	Φ1.35	Φ1.8	Φ2.25
Maximum Angle50° Flare diameter(m)	Φ4.7	Φ9.4	Φ14.1	Φ18.8	Φ23.5

10.6 Gobo wheel

Fix gobo wheel

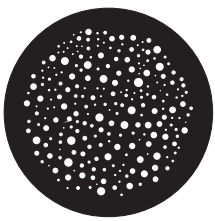
Inside diameter 159mm ,effective diameter 24mm/Effect wheel, Inside diameter 120mm

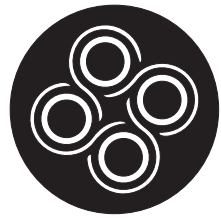


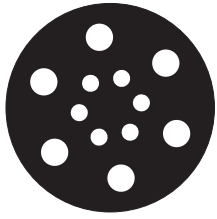
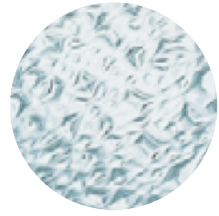


Rotating pattern sheet

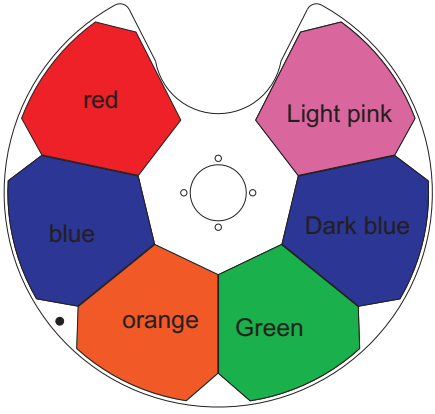
Glass design, Inside diameter32mm,effective diameter 24mm.

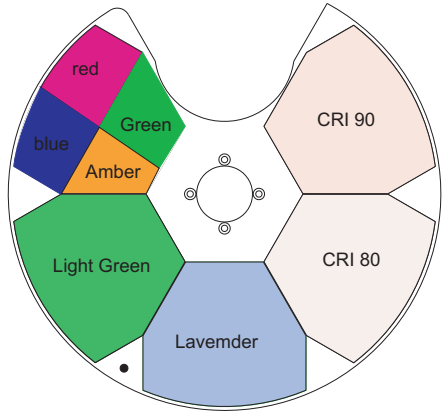




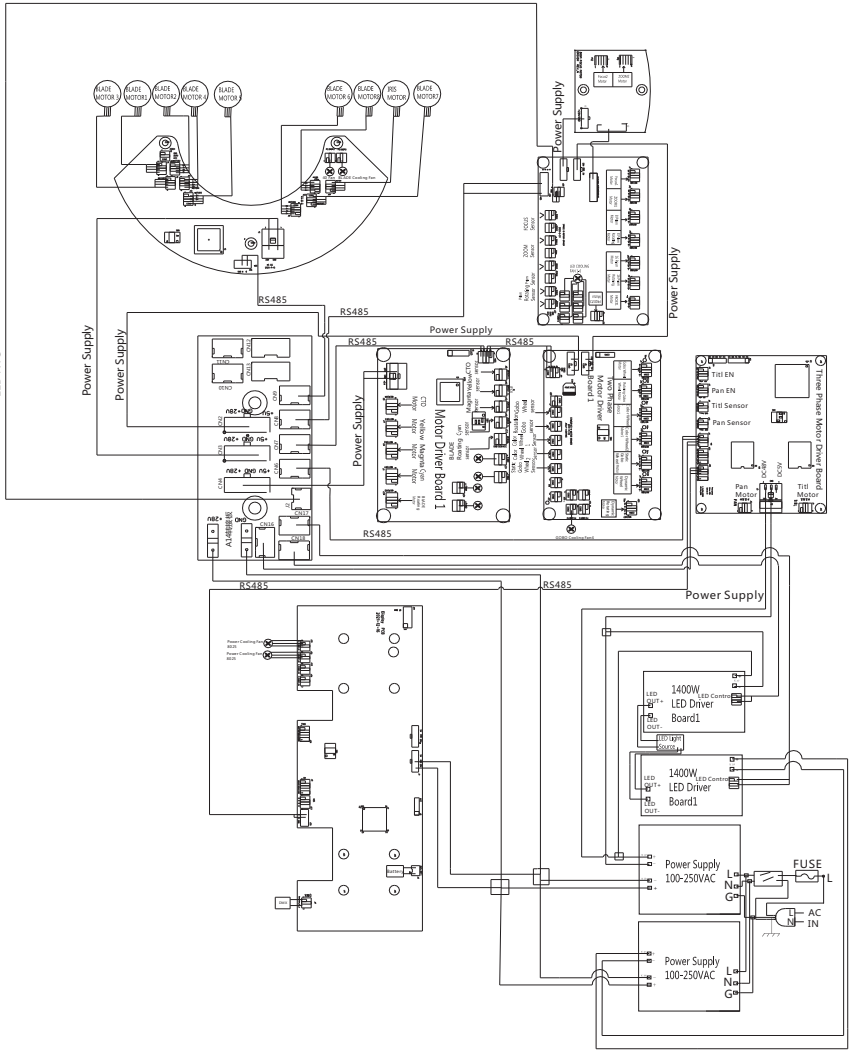



10.7 Color wheel





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.