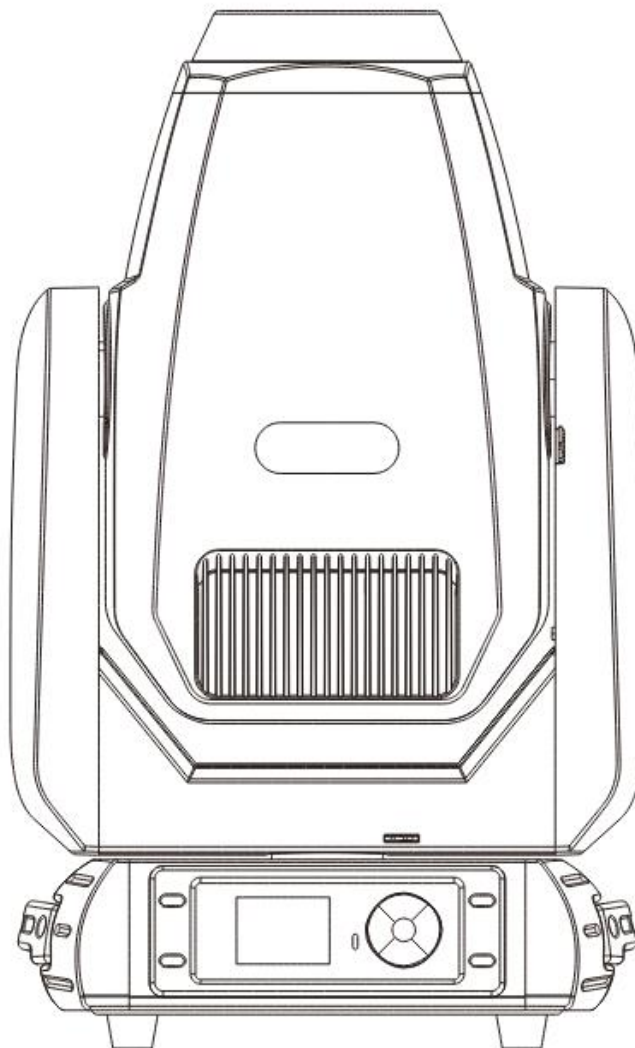


CYCLOPS

LIGHTING

ILLUMA 500P

500W LED Profile Moving Head



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1. PRODUCTION INTRODUCTION

The product is fully in conformity with the CE standard and the recipient country. The standard DMX512 signal mode is supported by the RDM protocol.

Production enforces standard IEC 60598-1:2014, IEC60598-2-17:2017.

SOURCE

- Light source: 500W LED white light module
- Color temperature: 8000K
- Output: 20000 lm
- Illuminance at 10m: 14200 lx/spot of 1.03m
- LED Life expectancy: 20,000 hours

OPTICAL SYSTEM

- Beam angle: 6° to 40°
- Four shutter blades, 180° rotatable
- Electronic Focus
- Iris
- LED Frequency adjustment

DYNAMIC EFFECTS

- Dimmer: 0-100% linear adjustment
- Electronic Strobe
- Color mixing: CMY
- Color wheel: 6 colors + white
- CTO filter: 3200K to 6000K
- Static gobos: 9 gobos + open
- Rotating gobos: 7 gobos + open
- Rotating gobo size: OD= 23.9mm, ID=13mm
- Prism: 5 facets prism
- Frost
- High precision positioning system

CONTROL & PROGRAMMING

- Control Protocols: DMX, RDM, Art-net, Auto
- Channel mode: 44, 45 channels
- Quiet Fan Mode
- Display: 2.8-inch touch screen, can be reversed 180°

MOVEMENT

- Pan: 540°
- Tilt: 270°
- Resolution: 16Bit

ELECTRICAL

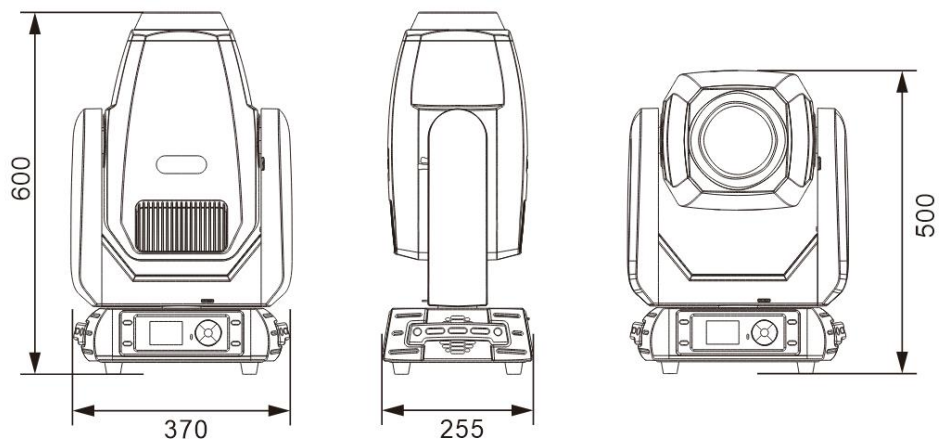
- Input voltage: AC110-240V/50-60Hz
- Power factor: $PF \geq 0.95$
- Power consumption: 750W

PHYSICAL

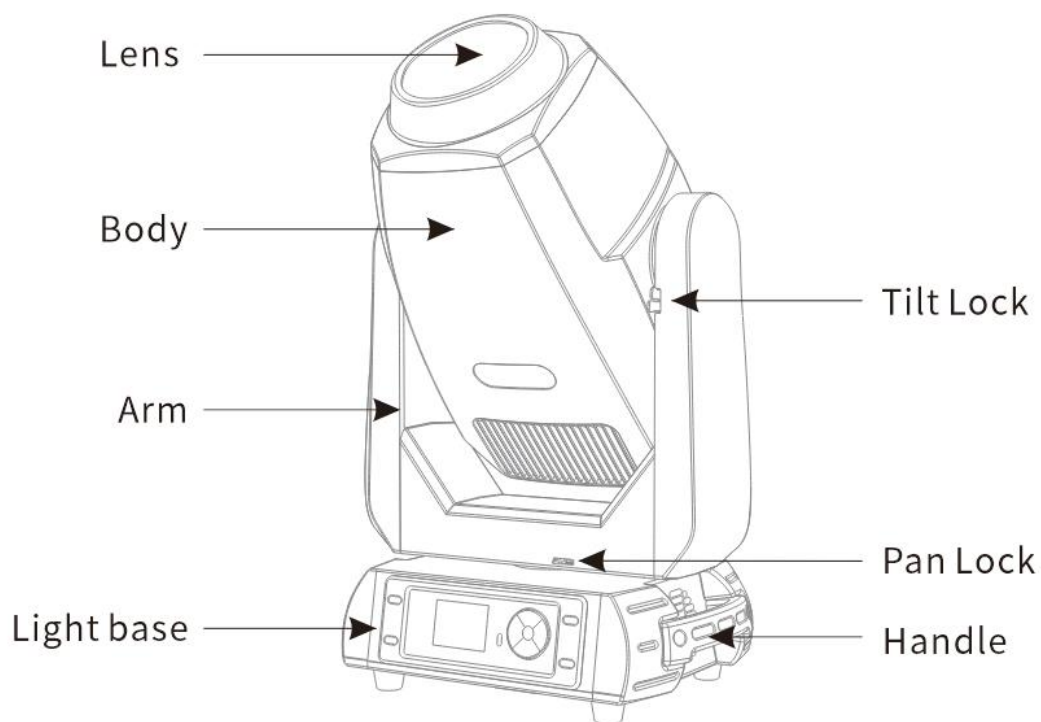
- IP Rate: IP20
- Dimensions: 370 x 255 x 600mm
- Weight: 23.5 kg

2. FIXTURE SIZE

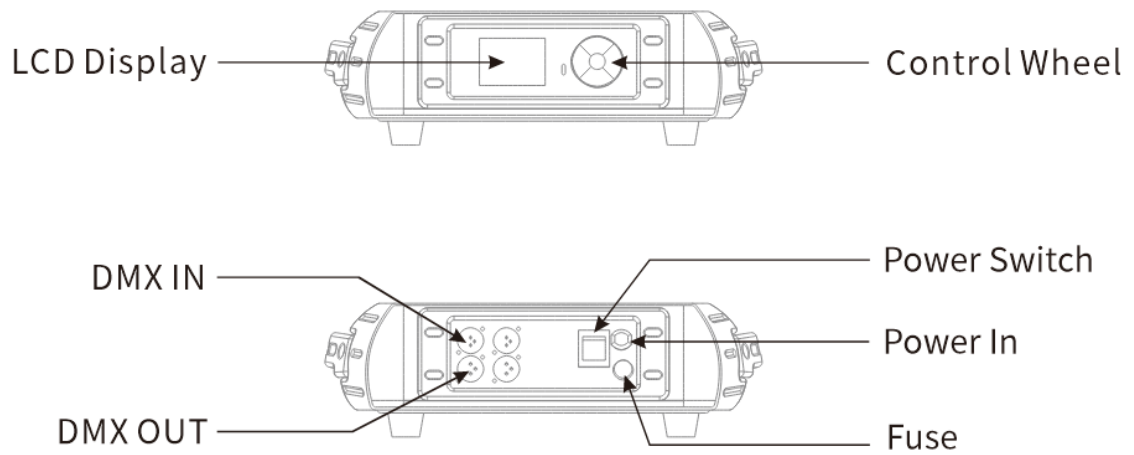
Product size: 370 (L) × 255 (W) × 600 (H) mm



3. PARTS INTRODUCTION



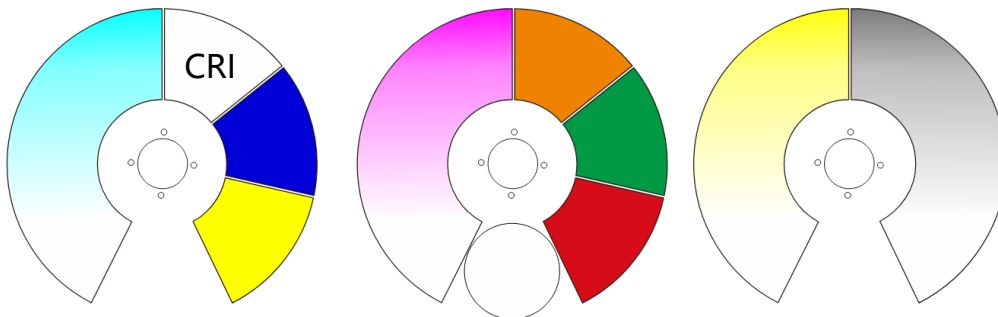
The structure of each part of the product is marked, and the main components of the lamps and lanterns are made up of the product names, so as to further understand the lamps and lanterns products.



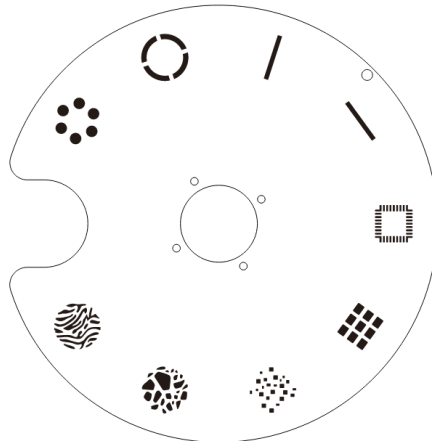
The function of the product panel is introduced, the name of the part on the panel is indicated, and the functions and functions of each part are familiar.

4. COLOR AND GOBO WHEELS

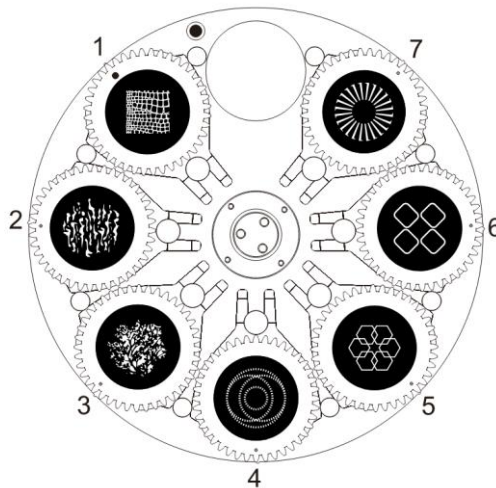
Color wheel: 6 colors + white light + CMY + CTO linear dimming



Fixed GOBO: 9 patterns + 1 white light;



Rotation GOBO: 7 removable gobo wheels + white light



Equipped with a 5 prism, positive and negative rotation; linear atomization function;The prism with focused, rotated, enlarged and jitter, and the rotation speed can be adjusted.

5. SAFETY INFORMATION

5.1.1 SAFETY WARNING MESSAGE



1.This product is only suitable for professional use, and does not apply to security for other purposes.

After you got the lights, please check the package whether have any damage caused by transportation. If there is any damage, do not use this fixture, and please contact the dealer or manufacturer as soon as possible.

2.This product is only suitable for indoor, IP20 protection class. Lamps should be kept dry

to avoid Moisture, overheating or dusty environment. Prevent lamps come into contact with water or any other liquid. The use of this product should pay attention to: fire, heat, electric shock, ultraviolet radiation, the lamp to explode or shedding caused serious or fatal injury.

5.1.2 NEED TO READ THE INSTRUCTIONS BEFORE USE ENERGIZED



OR INSTALLING

1. Follow through the operation of security methods and pay attention to the warning signs on the specification and equipment.
2. If you have any problem for how to safely operate the equipment. Please contact your dealer.



5.1.3 OPERATION IS PROHIBITED

The above symbol specifies that the unit in automatic mode. Manual operation is prohibited. Do not manually force the equipment or its elements.



5.1.4 POINTING IS PROHIBITED

Never point the lights directly to the sun or other strong light source.



5.2 TO PREVENT FALLING WOUNDING

1. Please don't move the package by one person only.
2. When hanging the fixture, please must verify that the facilities to be able to withstand the weight of the lamps at least 10 times more.
3. Please make sure the Mounting hardware is strong enough no any damage, and insurance for the safety rope as auxiliary security fixed in other facilities will need to verify before installation. Installing or removing the equipment, to make the pulley below the work location.



5.3 UA PROTECTION AND THE BULB EXPLOSION

1. Prohibit straight viewpoint with exposed bulbs to avoid UV damage to the eyes;
 2. Do not use the equipment without the lens screen and the lid;
- The lens and the light head covers should be timely replaced if any damage to rupture
3. The Fixture should be used with the protection screen together.



5.4.1 ANTI-HIGH TEMPERATURE (Rated maximum ambient temperature)

$t_a = 40^{\circ}\text{C}$

Please don't use the equipment if the temperature above 40°C.

5.4.2 ANTI-HIGH TEMPERATURE (Maximum outer surface temperature)

$t_c = 90^\circ\text{C}$

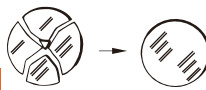
When the luminaire reaches the state of thermal stability, the maximum temperature on the external surface can reach 90 degrees. Please do not touch the lamp body when the luminaire is working.

5.5 IP PROTECTION



The product is certified at IP 20 levels only. Adequate additional protection should be taken for outdoor use. All lamps, lights and their fittings should be kept dry. Overheating dust and excessive humidity must be avoided.

5.6 BURST PREVENTION



1. The lens should be changed if had damaged or any problems.
2. Don't change the non-original manufacturer len

5.7 PREVENTION OF ELECTIC SHOCK



1. The electrical connection must only be carried out with corresponding qualifications;
2. Before installing, make sure you use the power voltage lamps must comply with the identified power, voltage and have an overload or leakage protection;
3. Each lamp must be properly grounded, installed in accordance with the relevant standards;
4. Cut off the power when stall or replace the lamp and the fuse;
5. Prohibit the use of a lightning storm or wet environment.

5.8 MAINTENANCE



Before starting any maintenance, work or cleaning the projector, cut off power from the mains supply. After switching off, any part of the luminaire cannot be disassembled within 10 minutes in order to avoid burns. If you need to replace the bulb, you have to wait 20 minutes to avoid burns.

5.9 TO PREVENT BUTNING OR FINE



1. Please do not install lamps directly on the surface of ordinary combustible materials.
2. Do not short-circuit temperature protection switch or fuse, use the specified type of fuse.
3. The equipment must be installed away from flammable and explosive materials. The shortest distance between the equipment and the flammable material is 3M.
4. The equipment should be projected range of 5 meters away objects and projectiles

- temperature less than 60°C.
- 5.Fan or ventilation, at least in the range of 0.5 meters cannot be an obstacle.
- 6.Do not place any object on the lens.
- 7.Handling at least allow the device to cool for 20 minutes.
- 8.Do not use non - original accessories.

6. PACKAGE

packed with fly-case of two in one, or carton. Attach follow accessory

6.1 ACCESSORY

CONTENT	QUANTITY
USER MANUL	1
SIGNAL CABLE	1
Safety Steels(Selection)	1
Clamps(Selection)	2
drawbridge	2

6.2 TRANSPORT PROTECT LOCK

In order to protect the light, there is a protect lock; During the transport, the lock catch position need lock in the center, and the fixture keep in vertical state.

6.3 ABOUT PACKING



1. Before packed, make sure power is off, and wait for at least 20mins for cooling down.
2. Before clean the fixture, make sure X, Y axis protect lock closed.
3. After packed by plastic bag, high-lift the fixture with two handles besides the product. put the product into the fly-case up-side-down.
4. After packed the product, put the accessory into the accessory case, then closed and lock the fly-case.
5. Fly-case only up stacked two layers. Prohibited upside down
6. When packed with carton box, equipment should be put into the foam first, then set into a carton, pay attention to the vertical position.

6.4 UNPACKING

Note: Before unpacking check the damage is whether due to the transportation or not, if you find any such damage, please do not use this item, and contact with the dealer or manufacturer as soon as possible.

1. Open the fly-case, and discover the inside plastic bag.
2. High-lift the product by two handles beside the bottom base and move it out.
3. Before power on, make sure you have opened the X, Y axis lock!

7. INSTALLATION STANDARD

7.1 INSTALLATION OF THE RIGGING

The product can be placed on the stage or mounted on any supporting frame. The quick locking system can quickly and easily press 2 directions to lock on the bracket.

7.2 EQUIPMENT FIXATION

1. Before installation, it is necessary to verify that the gear clamp is not damaged and can bear at least 10 times the weight of the equipment. The verification building can bear the weight of at least 10 times the total weight of the equipment and fixture cable attached equipment.
2. The fixture is mounted on the base of the lamp body, inserts the fastener into the mounting hole of the base, and holds the handle of the fastener to lock the 1/4 ring clockwise, and the other fasteners are installed in the same way.
3. Install a safety rope that can withstand 10 times the weight of the equipment.
4. Check whether the vertical lock has been opened. There is no combustible or attached in the verification equipment within 3 meters. Near other flammable objects.

Attention!



Must use two clamps fix the fixture, and tighten the clamps with 1/4 lock, only fully clockwise rotate 90 ° then can lock the fasteners. Add one safety insurance rope on the hole of light base. pls attention not connect to the transport handle.

7.3 DEVICE CONNECTION

Attention!



1. One product only can accept one input one output.
2. The input is a DMX. The output is by means of a 3-core socket as follows.
Pin 1: +ve polarity signal
Pin 2: -ve polarity signal
Pin 3: Grounded.
3. DMX512 cable must use the professional shielded twisted pair cable; standard loudspeaker cable is not reliable to control the long-range data. 24AWG cable is suitable for more than 300 meters long-distance signal transmission and must add DMX 512 signal amplifier.
4. Do not use two outputs to separate the connection, if separate a continuous connection to branch, DMX512 splitter is necessary. If use the DMX512 splitter. At first connect DMX512 Splitter input terminal to controller. And then connected from the splitter output terminal to next device. Do as above guide to connect other device, and finally coupled with terminal insertion.

8. AC POWER

8.1 VOLTAGE, POWER, FUSE SPECIFICATION

Input Voltage	Total Power	Frequency
AC110-240V~	600W	50/60HZ
Fuse voltage	Electronic current	Specification
250V	10A	5x20


8.2 POWER PROTECT

The equipment must be operated by professionals; Make sure that the voltage of power supply must be comply with the voltage identified on the lamp, and must have an overload or leakage electrical protection.

ATTENTION ! 

Factory has equipped the standard 3 pin plug socket. Connect the power supply as below table.

If lamp cable is damaged, replacement should be operated by factory or qualified staff. Any question, please contact professionals or talk to a qualified electrician.

Live wire (L)	Null (N)	Ground wire	
BROWN	BLUE	Yellow +Green	

9. LED MODEL AND REPLACEMENT

9.1 LED LAMP DESCRIPTION

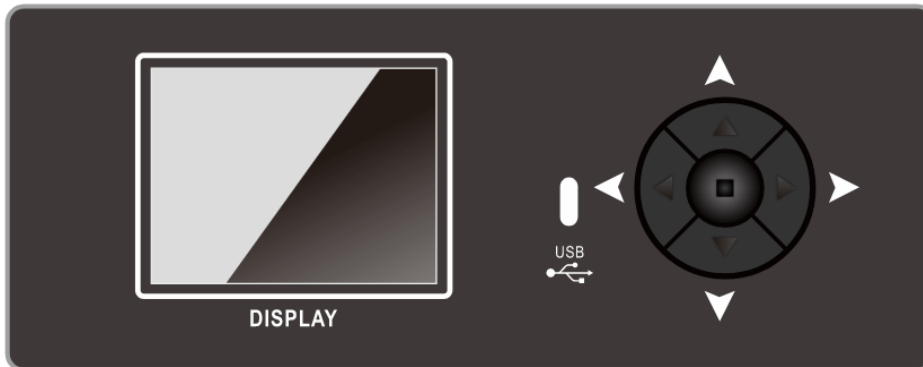
LED LAMP MODEL	POWER OF LAMP	LIFE/HOUR	Lumen
LED 500W	500W	20000 HOURS	14600 Lux

9.2 LED LAMP REPLACE

WARNING!  

9.2.1 The light source of this luminaire is a non-user replacement light source. If it is broken, please replace it by the manufacturer or its agent service provider or a qualified person.

10. CONTROL PANEL



Display: Display information data and control operations;

Button (▲): Data increment, scroll menu;

Button (▼): Data decrement, scroll menu;

Button (◀): Return;

Button (▶): OK;

Button (■): OK;

11. CONTROL PANEL MENU OPERATION

Main Menu	Submenu 1	Submenu2	Function SET	Function description
DMX ADDRESS	0~9		1-512	DMX Address 1-512
			→	Address +1
			√	Save and Back
			✕	Back
FEATURES SETTING	Remote IP:		ANY	Any Remote IP (Custom ArtNet mode works)
			Designate	Specify Remote IP (Custom ArtNet mode works)
	Signal Mode:		DMX	DMX(Default)
			ArtNet	Net
			WDMX	Wireless DMX (Customized)
	DMX Output:		Open	DMX output on (custom WDMX and ArtNet modes works)
			Close	DMX output off (custom WDMX and ArtNet modes works)
	Wire Set:		Hold	WDMX Setting Hold (Custom WDMX mode works)
			Clear	WDMX Setting Clear (Custom WDMX mode works)

	Channel Mode:		44CH	44 Channel Mode
			45CH	45 Channel Mode
	Pan Reverse:		Off	Pan Scan Normal
			On	Pan Scan Reverse
	Tilt Reverse:		Off	Tilt Scan Normal
			On	Tilt Scan Reverse
	Opto Check:		Off	Pan/Tilt optical sensor testing off
			On	Pan/Tilt optical sensor testing on
	PT Speed:		Noml	Pan/Tilt Scan Speed setting nomal
			Slow	Pan/Tilt Scan Speed setting slow
			Fast	Pan/Tilt Scan Speed setting fast
	NoDMX State:		Hold	keep signal data
			Clear	clear signal data
			Scene	Enable scene backup data
	Fan Mode:		Standard	Standard
			Quiet	Quiet
			Off	Off
	Color Mode:		Standard	Standard
			Custom	Customization (compatible with older versions)
			ADV.	Enter into the Advanced Settings (ADVANCED FUNCTION)
		RST.	Reset and Back	
		SAVE	Save and Back	
		ESC	Back	
ADVANCE D FUNCTIO N	Redress	ZEROSSETTING		
		Pan:	0-255	Step Motor Zero Position
		Tilt:		
		Focus:		
		Zoom:		
		Cyan:		
		Magenta:		
		Yellow:		
		Dimmer:		
		Iris		
		Static Gobo:		
		Rot Gobo:		
		GoboRot :		
		Prism:		
		Frost:		
		Blade Up1:		
Blade Up2:				
Blade Down1:				

		Blade Down2:			
		Blade Right1:			
		Blade Right2:			
		Blade Left1:			
		Blade Left2:			
		FrameRot:			
			SAVE	Save and Back	
			>	Value +1	
			<	Value -1	
			ESC	Back	
	ChanIDef			Inactivated	
FactSett			Only for Facotry		
UseManage			Only for Facotry		
TimerLimit			Only for Facotry		
InputCode	0~9		0-65535	Unlock Password	
			→	Value +1	
			√	Enter into next step if passwork correct,otherwise exit	
			×	Exit	
MANUAL	LAMP REST		ALL MOTER	All Motor	
			XY MOTER	XY Motor	
			PART MOTER	Parts Motor	
			YES	Selected Motor Reset	
			ESC	Return	
	TEST RUN	AUTO			Automatic Mode
		SOUND			Sound Control Mode
			ESC		Back
		Pan:	0-255		Manual Control
		Pan Fine:			
		Tilt:			
		Tilt Fine:			
		PT Speed:			
		Special Fun:			
		LED			
		Frequency:			
		Frequency Fine:			
		Max.light Setting:			
		Color:			
	Color Fine:				
	Cyan:				

		Magenta:		
		Yellow:		
		CTO:		
		GreenF:		
		ColorMcro:		
		ColorSpeed:		
		Beam Speed:		
		Static Gobo:		
		Rot Gobo:		
		RGobo Fine:		
		Gobo Rot:		
		GRot Fine:		
		Prism:		
		Prism Rot:		
		Frost:		
		Iris:		
		Iris Fine:		
		Zoom:		
		Zoom Fine:		
		Focus:		
		Focus Fine:		
		FrameRot:		
		Blade Up1:		
		Blade Up2:		
		Blade Down1:		
		Blade Down2:		
		Blade Right1:		
		Blade Right2:		
		Blade Left1:		
		Blade Left2:		
		Strobe:		
		Dimmer:		
		Dimmer Fine:		
			SAVE	Save the data and return to the previous interface; No signal automatically enables current data
			>	Value +1
			<	Value -1
			ESC	Back
	ESC			Back
SYSTEM	DMX VALUE	CH00-CH45	0-255	DMX value number
INFO	REST INFO	Pan:	Right/Erro	Motor reset state

		Tilt:		
		Focus:		
		Zoom:		
		Colour:		
		Static Gobo:		
		Rot Gobo:		
		Gobo Rot:		
		Cyan:		
		Magenta:		
		Yellow:		
		CTO:		
	FramRot:			
			ESC	Back
	VERS INFO	IAP Version:	xx-xx-xx-xx	Version of IAP Upgrade
		DisVersion:	Vxxx	Version of display software
		XY Version:	Vxxx	Version of Pan/Tilt software
		M1 Version:	Vxxx	Software Version M1
		M2 Version:	Vxxx	Software Version M2
		M3 Version:	Vxxx	Software Version M3
		M4 Version:	Vxxx	Software Version M4
			ESC	Back
	OTHER INFO	LightType:	Model	Model
		Run Time:	0-9999	Run Time
SRTS:		0-9999	Time Left	
Fan 1:		0-9999	Fan 1 speed	
Fan 2:		0-9999	Fan 2 speed	
Temp:		0-125	Temperature	
		ESC	Back	
ESC			Back	
DISPLAY SETTING	Light Set:		1-7Lev	Back Ground Light Level
	Light Off:		On	Keep back ground light on
			1Min	Back light turn off after 1 min
			2Min	Back light turn off after 2 mins
			3Min	Back light turn off after 3 mins
	Menu Back:		Off	Turn off the menu and back
			1Min	Menu back after 1 min
			2Min	Menu back after 2 mins
			3Min	Menu back after 3 mins
	Light Flash:		Off	Back ground light flash function off
			On	Back ground light flash function on
	Touch Cali:		Off	Touch screen calibration off
			On	Touch screen calibration on
		SAVE	Save and back	

			ESC	Back
DIMMER SETTING	Cure Mode:		Standard	Standard
			Custom	Customization (compatible with older versions)
	Dimmer Frequ:		4K	Dimmer Frequency 1
			10K	Dimmer Frequency 2
			20K	Dimmer Frequency 3
			40K	Dimmer Frequency 4
	Dimmer Curve:		Linear	Linear
			EXP	Exponent
			S_Cur	S Type
			REXP	Antiexponent
	Dimmer Mode:		Stan	Standard
			Off	off
			Fast	Fast
			Slow	Slow
	Balance SW:		Off	Balance Off
			On	Balance On
Balance Red:		0-255	Balance Red	
Balance Green:			Balance Green	
Balance Blue:			Balance Blue	
Balance White:			Balance White	
DeviceID:			xxxxxxx	RDM Address

12. DMX Channels

44 CH	45 CH	Function	DMX value	Channel function
1	1	Pan rotation	0-255	0~540°
2	2	Pan fine	0-255	Pan fine
3	3	Tilt rotation	0-255	0~270°
4	4	Tilt fine	0-255	Tilt fine
5	5	P/T speed	0-255	P/T speed
6	6	Function	0-139	Empty
			140-149 (Hold for 3 seconds)	Pan / Tilt reset
			150-159	Empty
			160-169 (Hold for 3 seconds)	Small motor reset

			170-199	Empty
			200-209 (Hold for 3 seconds)	Reset the whole fixture
			210-239	Empty
			240 (Hold for 3 seconds)	Silent mode off
			241-255 (Hold for 3 seconds)	Silent mode on
7	7	LED frequency	0-4	Empty
			5-9 (Hold for 3 seconds)	4K
			10-14 (Hold for 3 seconds)	10K
			15-19 (Hold for 3 seconds)	20K
			20-24 (Hold for 3 seconds)	40K
			25-255	Empty
8	8	LED Frequency fine tuning	0-255	Empty
9	9	Brightness settings	0-255	Empty
10	10	Color wheel	0-127	Color wheel continuous positioning
			128-129	White
			130-136	Color 1
			137-142	Color 2
			143-149	Color 3
			150-155	Color 4
			156-162	Color 5
			163-189	Color 6
			190-215	The color wheel rotates forward - fast to slow
			216-217	Stop
			218-243	Color wheel inversion - slow to fast
			244-249	Voice control random color
			250-255	Random colors - fast to slow
11	11	Color wheel fine-tuning	0-255	Empty
12	12	Cyan	0-255	Linear cyan blue
13	13	Magenta	0-255	Linear magenta
14	14	Yellow	0-255	Linear yellow

15	15	CTO	0-255	Linear CTO
16	16	Green correction	0-255	Empty
17	17	Color macro	0-255	Empty
18	18	Color speed	0-255	Empty
19	19	Beam speed	0-255	Empty
20	20	Fixed GOBO	0-8	White
			9-17	GOBO 1
			18-26	GOBO 2
			27-35	GOBO 3
			36-44	GOBO 4
			45-53	GOBO 5
			54-62	GOBO 6
			63-71	GOBO 7
			72-80	GOBO 8
			81-91	GOBO 9
			92-103	GOBO 1 shake
			104-115	GOBO 2 shake
			116-127	GOBO 3 shake
			128-139	GOBO 4 shake
			140-151	GOBO 5 shake
			152-163	GOBO 6 shake
			164-175	GOBO 7 shake
			176-187	GOBO 8 shake
			188-199	GOBO 9 shake
			200-201	White
202-222	The GOBO wheel rotates forward - from fast to slow			
223-243	GOBO reverse - slow to fast			
244-249	Voice controlled random GOBO			
250-255	Random GOBO-fast to slow			
21	21	Rotate	0	Empty
			1 - 9	Maximum white light hole
			GOBO positioning (GOBO rotation index mode)	
			10 - 13	GOBO 1
			14 - 17	GOBO 2
			18 - 21	GOBO 3
			22 - 25	GOBO 4
			26 - 29	GOBO 5
			30 - 33	GOBO 6
			34 - 37	GOBO 7
38 - 41	GOBO 8			


			GOBO positioning (GOBO rotation and rotation mode)	
			42 - 45	GOBO 1
			46 - 49	GOBO 2
			50 - 53	GOBO 3
			54 - 57	GOBO 4
			58 - 61	GOBO 5
			62 - 65	GOBO 6
			56 - 69	GOBO 7
			70 - 73	GOBO 8
			GOBO shake from slow to fast (GOBO rotation index mode)	
			74 - 81	GOBO 1 shake
			82 - 89	GOBO 2 shake
			90 - 97	GOBO 3 shake
			98 - 105	GOBO 4 shake
			106 - 113	GOBO 5 shake
			114 - 121	GOBO 6 shake
			122 - 129	GOBO 7 shake
			130 - 137	GOBO 8 shake
			GOBO shake from slow to fast (GOBO rotation index mode)	
			138 - 145	GOBO 1 shake
			146 - 153	GOBO 2 shake
			154 - 161	GOBO 3 shake
			162 - 169	GOBO 4 shake
			170 - 177	GOBO 5 shake
			178 - 185	GOBO 6 shake
			186 - 192	GOBO 7 shake
			193 - 199	GOBO 8 shake
			200 - 201	Maximum white light hole
			202 - 222	The GOBO wheel rotates forward - from fast to slow
			223 - 243	GOBO wheel reversal - slow to fast
			244 - 249	Voice activated random pattern
			250 - 255	Random GOBO - fast to slow
*	22	Rotate GOBO fine-tuning	0 - 255	Empty
22	23	GOBO rotation	GOBO rotation index mode	
			0-255	Index
			GOBO rotation mode	
			0	Stop
			1 - 127	Empty

			128	Stop
			129 - 255	Rotate clockwise from slow to fast
23	24	GOBO rotation fine-tuning	0 - 255	GOBO rotation fine-tuning
24	25	Prism	0-19	Empty
			20-73	Index mode
			74-127	Empty
			128-135	Prism macro 1
		
			248-255	Prism macro 16
25	26	Prism rotation	Index mode	
			0-255	Index
			Rotation mode	
			0	Stop
			1 - 127	Counterclockwise rotation from fast to slow
			128	Stop
			129 - 255	Rotate clockwise from slow to fast
26	27	Frost	0	Empty
			1-179	Linear frost
			180-255	linear atomization
27	28	Iris	0	Iris open
			1-179	Linear aperture from large to small
			180-191	Iris closed
			192-219	Open slowly, close quickly, slow to fast
			220-247	Open quickly and close slowly, fast to slow
			248-251	Slow opening, fast closing, fast to slow, random
			252-255	Fast opening and slow closing, fast to slow random
28	29	Iris fine adjustment	0-255	Empty
29	30	Zoom	0-255	linear zoom
30	31	Zoom in and fine-tune	0 - 255	Zoom fine
31	32	Zoom	0 - 255	Linear focus
32	33	Focus fine adjustment	0 - 255	focus fine
33	34	Blade rotation	0-255	Blade rotation
34	35	Blade up 1	0-255	Blade up 1
35	36	Blade up 2	0-255	Blade up 2

36	37	Blade down 1	0-255	Blade down 1
37	38	Blade down 2	0-255	Blade down 2
38	39	Blade right 1	0-255	Blade right 1
39	40	Blade right 2	0-255	Blade right 2
40	41	Blade left 1	0-255	Blade left 1
41	42	Blade left 2	0-255	Blade left 2
42	43	Strobe	0 - 31	Strobe off
			32 - 63	Strobe on
			64 - 95	Strobe from slow to fast
			96 - 127	Strobe on
			128 - 143	Pulse fade-in strobe from fast to slow
			144 - 159	Pulse fade out strobe from slow to fast
			160 - 191	Strobe on
			192 - 223	Random strobe from slow to fast
		224 - 255	Strobe on	
43	44	Dimming	0-255	dimming coarse adjustment
44	45	Dimming fine adjustment	0-255	Dimming fine adjustment

13. ROUTINE MAINTENANCE

Cleaning and maintenance

Warning: 

1. Turn off the power before opening any cover.
2. Dust or floats can be blown gently with a vacuum cleaner or a pressure blow machine.
3. In order to ensure the projector could work normally. It should be kept clean always. It is recommended that the fans and ventilation in let should be cleaned every 15 days. The lens and dichroic colour filters should also be regularly cleaned to maintain an optimum light output. Do not use any type of solvent on dichroic colour filters. It will damage the projector.
4. Suggestion: The continue usage of the light don't exceed 4 hours. Or it will shorter the usage of the lamp. Please use the alternative operation to solve these problems.
5. Please disconnect the power supply when begin to maintenance takedown the light. Please let the parts cool down 10 minutes at least then begin to install. If need ro replace the lamp, please wait 10 minutes again at least to let the lamp cool down completely or which may be burned down.
6. Please inspect the lens or other moving parts timing and keep them clear and static. If find anything damaged or looseness, must change a lamp or fix the lamp in order to avoid the accident.
7. The light uses the strong cool system. It is easy for the dirty to be collected. Please do clear the hot-ask one time two week at least.

8. After you use the light, please check the intake place whether there are some wastepaper, please clean it up, or the windmill will break down and causing fire.