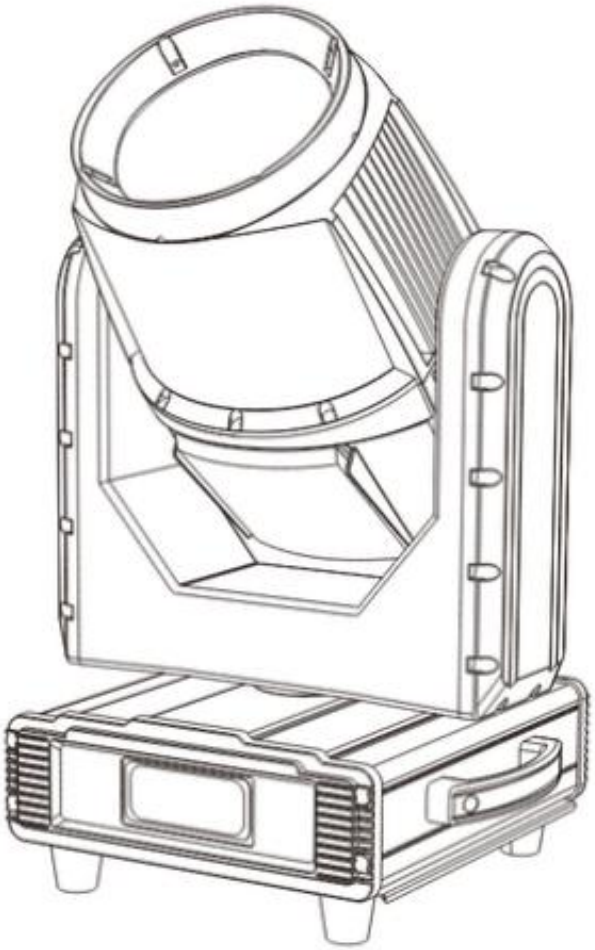
AQUARAY X5

420W LAMP MOVING HEAD BEAM

CYCLOPS LIGHTING



USER MANUAL

PRODUCT DOCUMENTATION

DMX CHART

www.cyclopslighting.com

ITEM

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STATEMENT

The product is good packing when ship out the factory. All users should strictly abide by the warnings and instructions stated in this manual, any damage and results due to misuse and the neglect of this operating manual will be excluded from the deal responsibility this manual will not informed in additionally if have technical changes.

1. PRODUCTION INTRODUCE

Thank you for choosing this product. This is our latest development of intelligent, efficient products, beautiful and fluent, combined with the advanced technology of the stage lighting today. It has advanced international electronic control technology and excellent human nature chemical industry. 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 enforce standard IEC 60598-1:2014，IEC60598-2-17:2017.

Channel mode: 16CH/20CH;

Lamp : OSRAM 420W ;

CTO: 7700K;

Light source life: 3000 hour;

Output luminous flux：12500 lm; 10 meters illumination:330000 lux，Minimum spot:0.27m;

Rated voltage: AC110-240V~; Frequency：50/60Hz; Current：4A-1.85A;

Power: 620W; Power Factor：PF＞0.95;

Beam angle:2.2°; TFT display: 1.7 inches , reversible180°;

Color wheel: 14colors+white light; Color chip: imported Italian ODL color chip;

Fixed gobo wheel: 6 gobos+5 beams+4 colored glass gobos;

Effect wheel: Colorful effect wheel. When the prism comes out, the effect wheel is inserted to present the colorful prism effect;

Biprism: 1 circular 8-prism + circular 48-prism (8+16+24), with prism superposition function;

Focus: supports linear focus; has fog function; Dimming: 0-100% electronic dimming;

Strobe: Supports mechanical strobe and adjustable speed strobe effects, and supports strobe macro function;

Pan: 540°， 8Bit/16Bit Tilt: 270°， 8Bit/16Bit ;

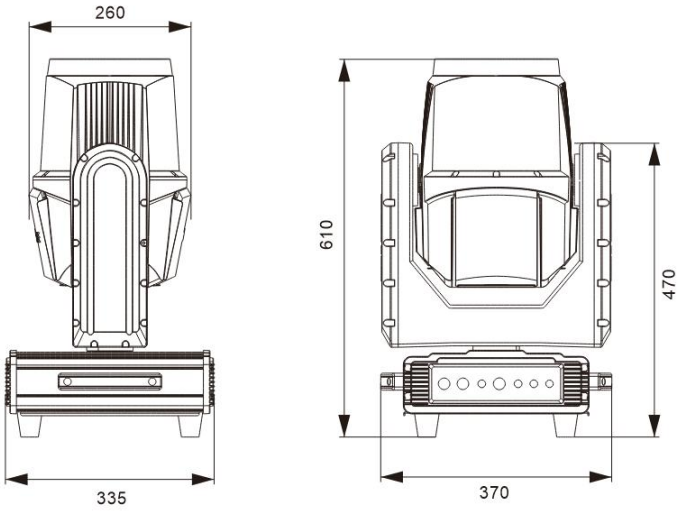
Product size: 370x335x610 mm;

Flycaes: 820x475x630 mm(Not Include Wheel); Catron box: 810x430x555 mm;

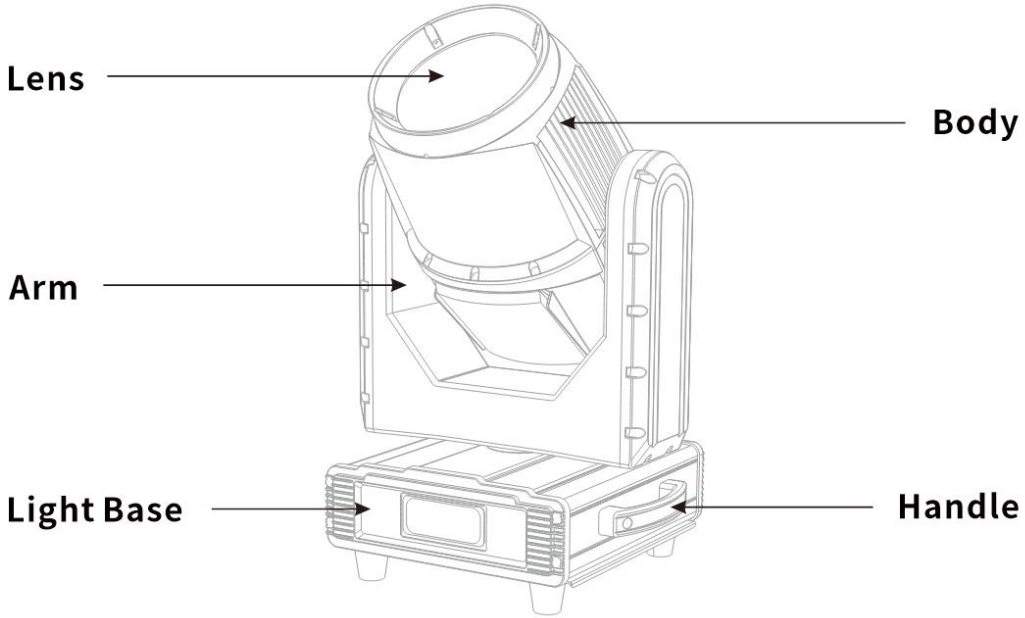
N.W.: 23 kg; G.W.: 25 kg (catron box).

2. FIXTURE SIZE

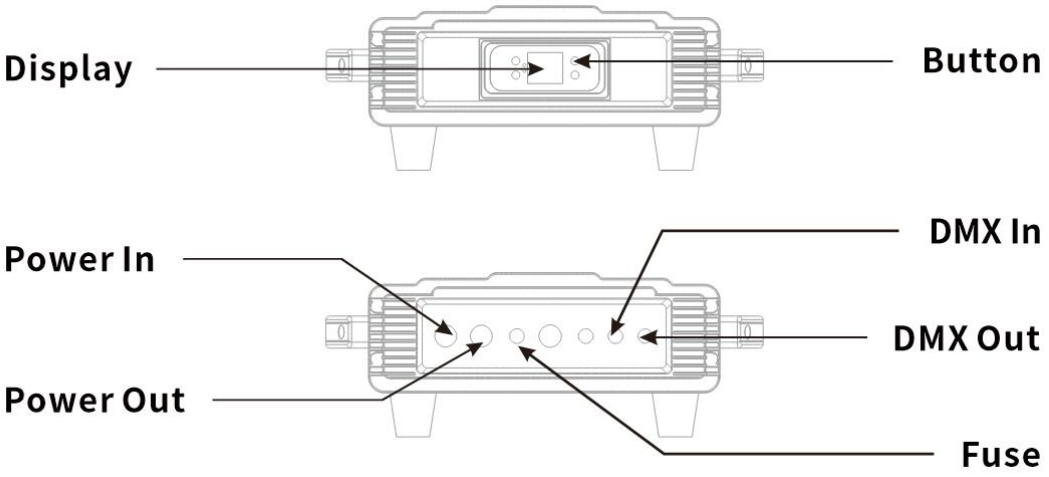
Product size：370（L）×335（W）×610（H）mm



3. PARTS INTRODUCE



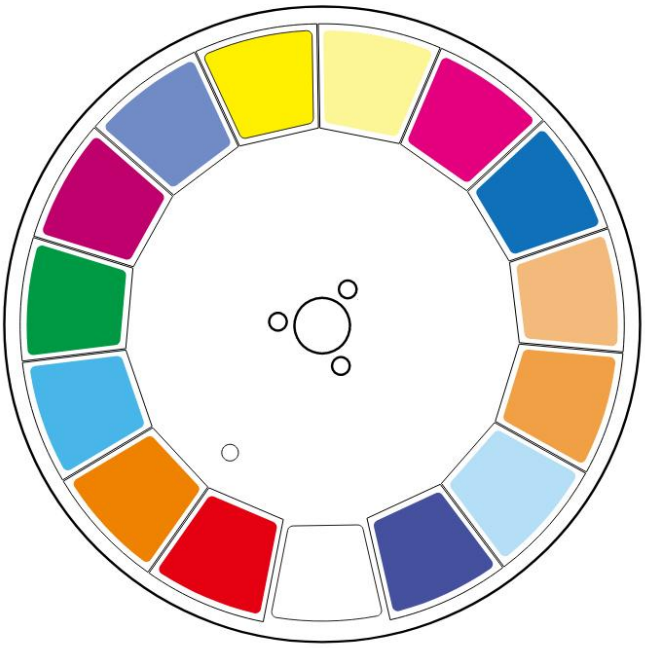
The structure of each part of the product is marked, and the main components of the lamps and lanterns are made up of the product names, so as to further understand the lamps and lanterns products.



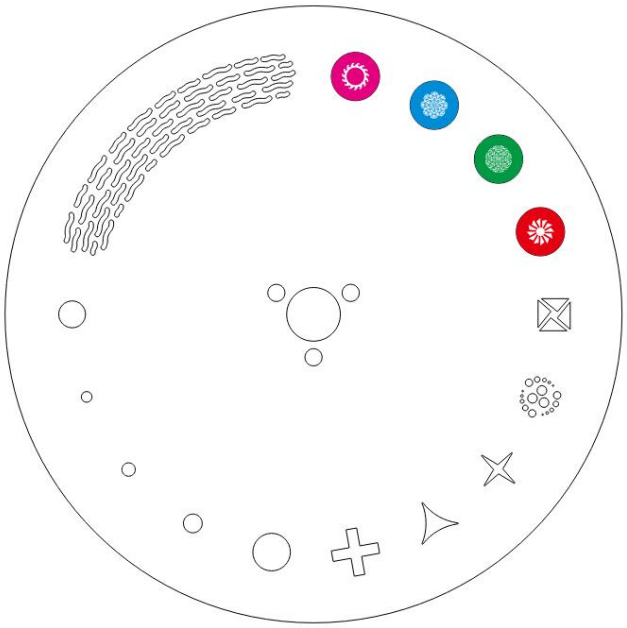
The function of the product panel is introduced, the name of the part on the panel is indicated, and the functions and functions of each part are familiar.

4. A description of a color wheel, a GOBO wheel, and so on

Color wheel: 14 fix colors +white



Fixed GOBO: 6 gobos+ 5 beam gobos+ 4 stained glass gobo.
The Fixed of the GOBO is smooth and the changeable is convenient.



Equipped with a four 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.The use of this product should pay attention to: fire, heat, electric shock, ultraviolet radiation, the lamp to explode and so on .

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 LAMP

1.The fitting mounts a high-pressure lamp that needs an external. Immediately replace the lamp if damaged or deformed by heat

2.The light source in this fixture shall be replaced by the manufacturer or its service agent or similar qualification.

3.Always disconnect from mains before replacing the lamp.If the power supply is disconnected, it is prohibited to start immediately.

4.Please wait 10 minutes before starting.

5.1.4 OPERATION IS PROHIBITED

In automatic mode, do not manually force equipment or equipment.

5.1.5 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 Hang 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

Prohibit straight viewpoint with exposed bulbs to avoid UV damage to the eyes;
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
The Fixture should be used with the protection screen together.

5.4.1 ANTI-HIGH TEMPERATURE (Rated maximum ambient temperature)

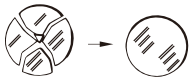
t_a =40°C

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

5.4.2 ANTI-HIGH TEMPERATURE (Maximum outer surface temperature)

t_c =110°C

When the luminaire reaches the state of thermal stability, the maximum temperature on the external surface can reach 110 degrees. Please do not touch the lamp body when the luminaire is working.

5.5 BURST PREVENTION 

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

5.6 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.

5.7 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 can not 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.

5.8 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 0.5 meters.
4.The equipment should be projected range of 15 meters away objects and projectiles

temperature less than 60 ° C.
5.Fan or ventilation, at least in the range of 0.5 meters can not 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

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

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

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 UNPACKING

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.Before clean the fixture, make sure X, Y axis protect lock closed.
4、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.
5.After packed the product, put the accessory into the accessory case, then closed and lock the fly-case.
6.Fly-case only up stacked two layers. Prohibited upside down
7.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 with1/4 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!

One product only can accept one input one output.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.
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. 8.AC POWER

8.1 VOLTAGE, POWER, FUSE SPECIFICATION

Input Voltage	Total Power	Frequency
AC110-240V～	620W	50/60HZ

Fuse voltage	Electronic current	Specification
250V	10A	5×20

8.2 Power connection attention

Attention! The device 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！

The factory has been equipped with standard 3-pin plug and socket, which is connected to the power supply correctly according to the signs listed in the table, yellow / green If the flexible cord of the lamp is damaged, it should be replaced by the factory or its service agent or qualified personnel. If you have any questions about installation, you can consult with a qualified lectrician.

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

9. LAMP MODEL AND REPLACE

9.1 LAMP

LAMP MODEL	POWER	Life / hour
OSRAM 420W	420W	3000 hours

WARNING!

9.1.1 There is a safety hazard or damage if install similar bulb To reduce the risk of damage to light ,do change the lamp before using time over 125% of lamp life .

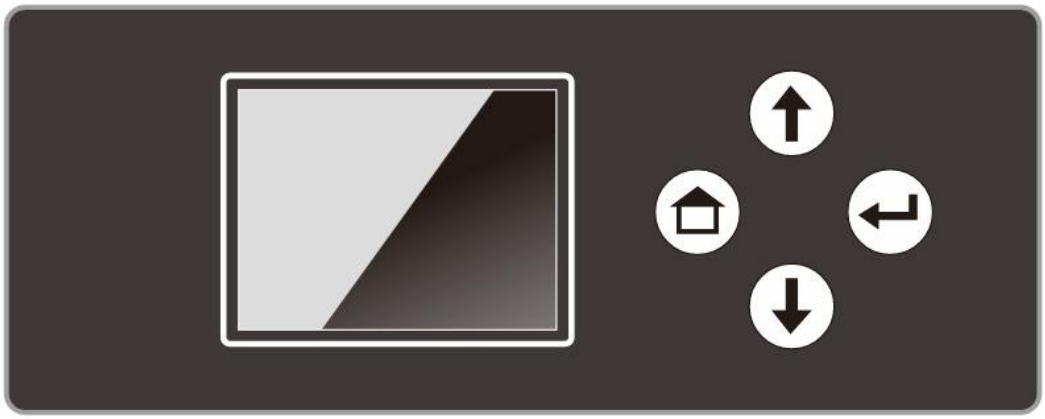
9.1.2 It is forbidden to project light at a certain angle for a long time! Will greatly affect the lamp life!

10. Warranty period for special accessories

10.1 LED drive have a 1 year warrantee.

10.2 The warranty period of power supply and electronic circuit board is 3 years.

11. CONTROL PANEL



Display：Display information data and control operations；

Button (↑)：Up button；

Button (↓)：Down button；

Button (⌂)：Return；

Button (↵)：OK；

12. CONTROL PANEL MENU OPERATE

Main Menu	Submenu 1	Submenu2	Function	Function description
Address			1-512	Address number set
Display	"DispFlip"		"Off"	Normal
			"On"	reverse 180°
	"DispDim"		5%-100%	Brightness set
	"Bcklight"		"1Min "	Backlight close after delay 1Min
			"2Min "	Backlight close after delay 2Min
			"3Min "	Backlight close after delay 3Min
			"ON"	Backlight light always
	"MenuBack"		"1Min "	Menu back to mainmenu after dalay 1Min
			"2Min "	Menu back to mainmenu after dalay 2Min
			"3Min "	Menu back to mainmenu after dalay 3Min

			"Off "	Menu back not automatic
	"DmxFlash"		"On "	Back groud flash,open
			"Off "	Back groud flash,closed
	"Return "		▲	return
Feature	"Ch.Mode"		"16CH"	16Channel mode
			"20CH"	20Channel mode
	"Run Mode"		"Slve"	Accept other signal control
			"Auto"	Inside program Run automatically
			"Soud"	Sound active
	"Lost DMX"		"Hold"	hole signal data
			"Clr"	clear signal data
			"Manu"	Activate backup programme
	"Pan Rev"		"Off "	PAN SCAN Normal
			"On"	Pan Scan Reverse
	"Tilt Rev"		"Off "	Tilt Scan normal
			"On"	Tilt Scan Reverse
	"PT Speed"		"Fast "	PT Scan fast Speed mode
			"Norm "	PT Scan normal Speed mode
			"Slow"	PT Scan slow Speed mode
	"PT Fback"		"Off "	PAN/TILT optical sensor testing off
			"On"	PAN/TILT optical sensor testing on
	"Fan Mode"		"Stan"	Standard mode
			"Quie"	Silent mode
	"Return "		▲	Return
Lamp	"Default"		"L on"	Default to turn on the lamp when powered on
			"Loff"	Default to turn off the lamp when powered on
	"Manual"		"L on"	Manually turn on the lamp
			"Loff"	Manually turn off the lamp
	"LampHrs"		"xxxx"	Lamp usage time（h）
	"LampStat"		"Off "	Lamp current status: off
			"On"	Lamp current status: on
	"LampOff"		"5H"	Automatically turn off the lamp after 10 minutes of no signal and no operation
			"Off"	Automatic lamp turn-off:off
	"AngleCal"		"Off "	Angle correction off
			"On"	Angle correction on
	"Return "		▲	Return
Control	"Color"		0-255	Control the Channels
	"Strobe"			
	"Dimmer"			

	"StatGobo"			
	"Prism"			
	"PrismRot"			
	"Eff Fun"			
	"Frost"			
	"Focus"			
	"Pan"			
	"Pan Fine"			
	"Tilt"			
	"TiltFine"			
	"Reserve1"			
	"DMXReset"			
	"DMXLamp"			
	"PT Speed"			
	"Color SP"			
	"Focus SP"			
	"Gobo SP"			
	"Return "		▲	Return
Factory	"Redress"	"Pan"	0-255	Motor Redress
		"Tilt"		
		"StatGobo"		
		"Color"		
		"Focus"		
		"Dimmer"		
		"Prism1"		
		"Prism2"		
		"PrismRot"		
		"Frost"		
		"Return "	▲	Return
	"FacSett"		★	factory setting(not open for customers)
	"FacCofig "		SAVE	Save factory set
			EPRT	Recover Factory set
			ESC	
	"DefCofig"		EPRT	Recover default set
			ESC	
	"Return "		▲	Return
Info	"Show DMX"	Chanl 00-Chanl 20	0-255	DMX value number
	"Error"	"Pan"	OK/Err	Step motor resetting state
		"Tilt"		
		"Focus "		
		"Zoom"		

		"Color"		
		"StatGobo"		
		"Return "	▲	Return
	"Version"	"DisVersi "	Vx.x	Version
		"XY Versi "	Vx.x	Version
		"M1 Versi "	Vx.x	Version
		"M2 Versi "	Vx.x	Version
		"Return "	▲	Return
	"Other"	"LightTyp"	Light model	Light model
		"DisTemp"	xxx ℃	Display board temperature
		"Temp"	xxx ℃	Lamp body temperature
		"Fan1spd"	xxxx	Fan1Rot
		"Fan2spd"	xxxx	Fan2Rot
		"X Angle"	xxx	Angle sensor X-axis angle
		"Y Angle"	xxx	Angle sensor Y-axis angle
		"Power"	Right/Eror	Light output power status
		"OnTime"	xxxx	number of power on and off
		"Run Time"	xxxx	working hours memo for connect power
		"Lamp Hrs"	xxxx	Lamp usage time（h）
		"Return "	▲	Return
	"Return "		▲	Return
All Rst			"No"	Cancel
			"Yes"	All Reset
PT Rst			"No"	Cancel
			"Yes"	PT Reset
FX Rst			"No"	Cancel
			"Yes"	FX Reset
Return			▲	Exit

13. DMX Channels

20CH	16CH	Function	DMX value	DMX value description
1	1	Color wheel	0-4	Empty
			5-8	White+ red
			9-12	Red
			13-17	Red+orange

			18-21	Orange
			22-25	Orange+cyan
			26-29	Cyan
			30-34	Cyan+green
			35-38	Green
			39-42	Green + Magenta
			43-46	Magenta
			47-51	Magenta + light blue
			52-55	Light blue
			56-59	Light blue+yellow
			60-63	Yellow
			64-68	Yellow + light green
			69-72	Light green
			73-76	Light green + pink
			77-81	Pink
			82-85	Pink+blue
			86-89	Blue
			90-93	Blue + Cooling 1
			94-98	Cooling 1
			99-102	Cooling 1+ Cooling 2
			103-106	Cooling 2
			107-110	Cooling 2 + Warming 2
			111-115	Warming 2
			116-119	Heating 2+UV blue
			120-123	UV blue
			124-127	UV blue + white
			128—191	Water flows clockwise from fast to slow
			192—255	Counterclockwise water flow from slow to fast
2	**2**	**Strobe**	0-3	Strobe off
			4-103	Strobe from slow to fast
			104-107	Strobe on
			108-207	Pulse strobe from slow to fast
			208-212	Strobe on
			213-251	Random strobe from slow to fast
			252-255	Strobe on
3	**3**	**Dimming**	0-255	Linear dimming
4	**4**	**Fixed pattern**	0-3	Empty
			4-7	G0BO 1
			8-11	G0BO 2
			12-15	G0BO 3
			16-19	G0BO 4
			20-23	G0BO 5
			24-27	G0BO 6

			28-31	G0BO 7
			32-35	G0BO 8
			36-39	G0BO 9
			40-43	G0BO 10
			44-47	G0BO 11
			48-51	G0BO 12
			52-55	G0BO 13
			56-71	The effect pattern swings from slow to fast
			72-113	The pattern flows clockwise from fast to slow
			114-117	Stop
			118-159	The pattern flows counterclockwise from slow to fast
			160-166	Pattern 1 swings from slow to fast
			167-172	Pattern 2 swings from slow to fast
			173-179	Pattern 3 swings from slow to fast
			180-185	Pattern 4 swings from slow to fast
			186-191	Pattern 5 swings from slow to fast
			192-198	Pattern 6 swings from slow to fast
			199-204	Pattern 7 swings from slow to fast
			205-211	Pattern 8 swings from slow to fast
			212-217	Pattern 9 swings from slow to fast
			218-223	Pattern 10 swings from slow to fast
			224-230	Pattern 11 swings from slow to fast
			231-236	Pattern 12 swings from slow to fast
			237-255	The effect pattern swings from slow to fast
5	**5**	**Prism**	0-127	Empty
			128-170	Prism 1
			171-213	Prism 2
			214-255	Prism 3
6	**6**	**Prism rotation**	0	Empty
			1-127	Index
			128-190	Rotate clockwise from fast to slow
			191-192	Stop
			193-255	Counterclockwise rotation from slow to fast
7	**7**	**Macro function**	0-5	Empty
			6-15	Combination effect 1
			16-30	Combination effect 2
			31-45	Combination effect 3
			46-60	Combination effect 4
			61-75	Combination effect 5
			76-90	Combination effect 6
			91-105	Combination effect 7
			106-120	Combination effect 8
			121-135	Combination effect 9

			136-150	Combination effect 10
			151-165	Combination effect 11
			166-180	Combination effect 12
			181-195	Combination effect 13
			196-210	Combination effect 14
			211-225	Combination effect 15
			226-240	Combination effect 16
			241-255	Combination effect 17
8	8	Frost	0-9	Empty
			10-178	Linear atomization 1-100
			179-209	Frost
			210-255	Rainbow
9	9	Zoom	0-255	Linear focus
10	10	Pan	0-255	Pan
11	11	Fine Pan	0-255	Fine fan
12	12	Tilt	0-255	Tilt
13	13	Fine Tilt	0-255	Fine tilt
14	14	XY macro	0-99	Empty
			100-119	Pro1
			120-139	Pro2
			140-159	Pro3
			160-179	Pro4
			180-199	Pro5
			200-219	Pro6
			220-239	Pro7
			240-255	Pro8
15	15	Reset	0-25	Empty
			26-76	Effect reset
			77-127	Pan/Tilt reset
			128-255	Reset the whole fixture
16	16	Lamp	0-25	Empty
			26-100	OFF
			101-177	Bright lamp-Silent Mode
			178-255	Bright lamp- full power
17	*	Pan/Tilt	0-255	Fine tilt speed regulation
18	*	NC	0-255	Empty
19	*	NC	0-255	Empty
20	*	NC	0-255	Empty

14. 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 regulary 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 excced 4 hours.Or it will shorter the usage of the lamp.Please use the alternative operation to solve this problems.

5、 Please disconnect the power supply when begin to maintenaceor takedown the light.Please let the parts cool down 10 minute at least then begin to install. If need ro replace the lamp,please wait 10 minute again at least to let the lamp cool down completely or which maybe burned down.

6、Please inspect the lens or other moving parts timing and keep them clear and static.If find anything damaged or losseness,must change a lamp or fix the lamp in order to avoid the accident.

7、The light use 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.

CYCLOPS
LIGHTING

Cyclops Lighting creates professional lighting fixtures for **lighting professionals**. Our extensive product catalog covers every lighting application, from small to big, from simple to complex. We focus on maximizing value for our users, ensuring superior **performance**, complete **documentation** and expert **worldwide support**.

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