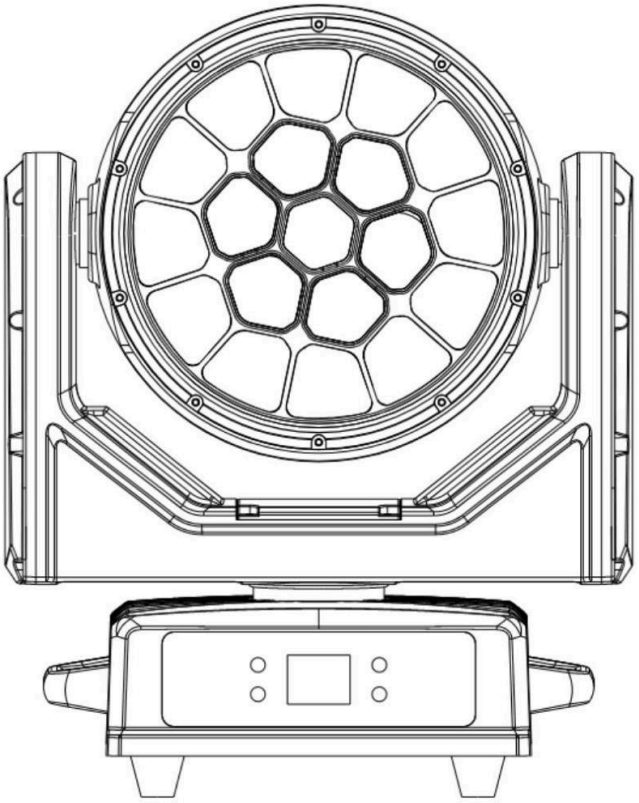
AQUAWASH 800

19X40W RGBL IP65 LED WASH

CYCLOPS LIGHTING



USER MANUAL

PRODUCT DOCUMENTATION

DMX CHART

www.cyclopslighting.com

ITEM

Item..... 02

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STATEMENT

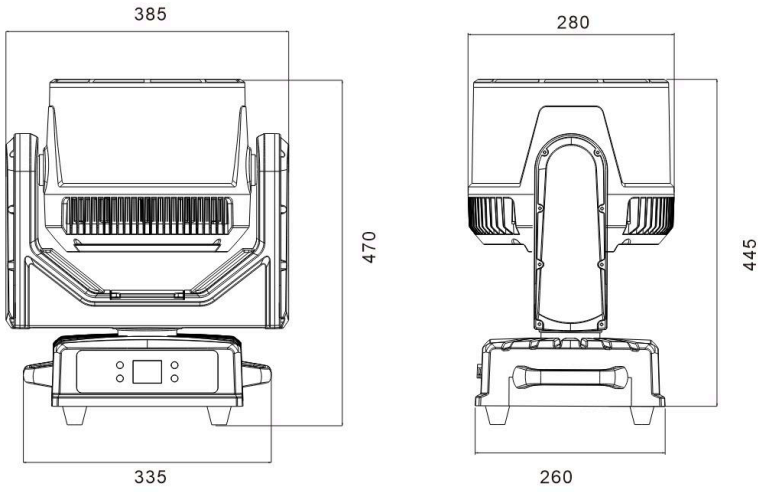
The product is good packing when ship out the factory. All users should strictly abide by the warnings and instructions stated in this manual, any damage and results due to misuse and the neglect of this operating manual will be excluded from the deal responsibility this manual will not informed in additionally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

1、PRODUCT INTRODUCTION

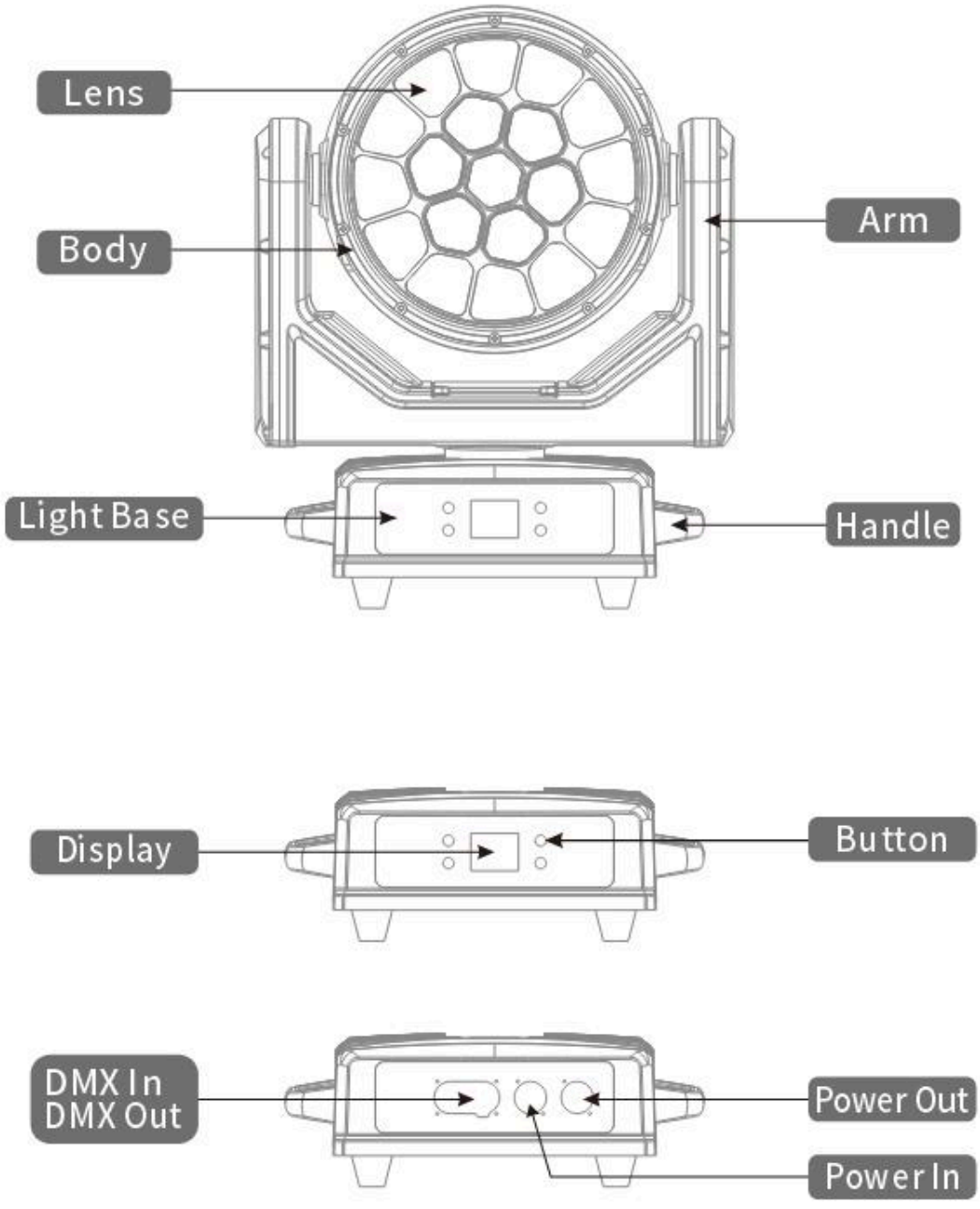
Thank you for choose this products, this model is the moving head light which is the latest development of the smart, efficient products, beautiful shape, smooth R & D, combined with the advanced technology of today's stage lighting products with international advanced electronic control technology and excellent user-friendly industrial design , fully comply with CE standard, accepted international standard DMX512 signal mode. Production enforce standard IEC 60598-1:2014，IEC60598-2-17:2017.

Channel mode: 21CH/23CH/35CH/78CH/92CH/97CH/99CH；
light source: LED 19*40W RGBW 4in 1 diode；
Light source life: 20000 hour；
Luminous flux output: 11100 lm；
10m illumination (minimum/maximum light spot): 16000 lux / 1.2m，1100 lux / 5.7m；
Rated voltage: AC110-240V~；
Frequency: 50/60Hz；
Power: 800W；
Power factor: PF≥0.95；
Display: 1.7-inch LCD color screen, can be reversed 180°；
Convex mirror: After the convex mirror is extended, it can rotate infinitely；
Beam angle: 6°- 36°；
Control mode: support DMX512 mode, RDM mode, self-propelled mode；
Dimming: 0-100% electronic dimming；
Strobe: Supports adjustable speed strobe effect and strobe macro function；
Positioning technology: Using magnetic code plate reset, XY axis positioning is accurate；
Pan: 540°, resolution 8/16Bit；
Tilt: 270°, resolution 8/16Bit；
IP protection grade: IP66；
Product size: 335x280x470 mm；
N. W. : 18.5 kg；
G. W. : 20.5 kg（carton box）；
Power connections: powerCON TRUE1 In/Out (male and female), IP65 rated；
DMX connections: 3 pin and 5 pin XLR In/Out male and female；
Functions can be customized according to customer needs.

2、FIXTURE SIZE ：335mm（L）x 280mm（W）x 470mm（H）



3、PARTS INTRODUCE



Each part of product structure and main composition product name description for better know the light unit.

4. SAFETY INFORMATION

4.1.1 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.**IP Protection level** IP66 ; The use of this product should pay attention to: fire, heat, electric shock, ultraviolet radiation, the lamp to explode and so on .

4.1.2 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.

4.1.3 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.

4.1.4 OPERATION IS PROHIBITED 

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

4.1.5 POINTING IS PROHIBITED 

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

4.2 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.

4.3 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.

4.4.1 ANTI-HIGH TEMPERATURE (Rated maximum ambient temperature)

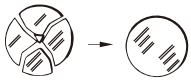
t_a =40°C

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

4.4.2 ANTI-HIGH TEMPERATURE (Maximum outer surface temperature)

t_c =90°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.

4.5 BURST PREVENTION 

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

4.6 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.

4.7 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.

4.8 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 3 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.

5.PACKAGE

5.1 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

5.2 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.

5.3 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.

5.4 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!

6. INSTALLATION STANDARD

6.1 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.

6.2 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.

6.3 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.

7.AC POWER

7.1 VOLTAGE, POWER, FUSE SPECIFICATION

Input Voltage	Total Power	Frequency
AC110-240V～	800W	50/60HZ

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

7.2 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.

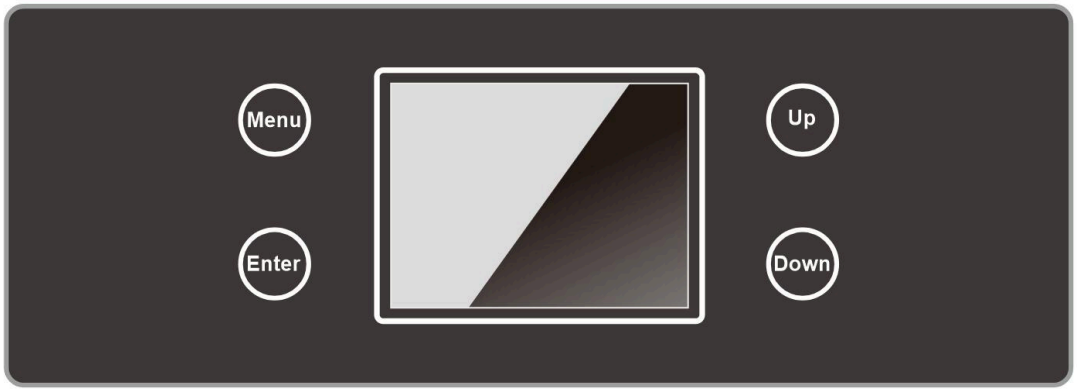
Live wire(L)	Null(N)	Ground wire	
Brown	BLUE	Yellow +Green	

8. 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.

9. CONTROL PANEL



Display：Display information data and control operations；

Button (Menu)：Menu；

Button (Enter)：Enter；

Button (Up)：Up；

Button (Down)：Down；

10. CONTROL PANEL MENU OPERATE

primary menu	Sublevel menu	Three-level menu / parameters
Address	001 - 512	The channel value is incremented or subtracted by 1 each time
System Settings	operational mode	Artnet/DMX / voice / self
	channel pattern	21CH/23CH/35CH/78CH/92CH/ 97CH/99CH
	Default position of X axis	0-255
	Default position of Y axis	0-255
	X axis reversal	Open / close
	Y axis reversal	Open / close
	XY axis exchange	Open / close
	XY axis fast mode	Open / close
	The signal to keep	Open / close
	Optical coupling error correction	Open / close
	Hall error correction	Open / close
	Synchronous update	Open / close
	Backlit time	15S/30S/60S/Often bright
	Factory data reset	Confirm / cancel

Manual mode	Current channel mode channel	0-255
System calibration	Enter password	Lighting calibration
Advanced mode	Network	
	Data package	
	Head reset	
	XY reset	
	Full reset	
System information	Reset the error message	Display the reset error message
	DMX data monitoring	Channel values for the receiving console
	Sensor information	Hall information
		X-light coupling information
		Y light coupling information
	Hardware version	Display hardware version
	software version	Displays the software version
	Utility time	Displays the lamp service duration

Screen automatic rotation function

The system can automatically rotate the screen according to the direction of gravity, without manual rotation. You can also turn off the automatic rotation function.

Manual control

This interface is used to control the current lamps.

Press OK to enter the edit state. Press Up and Down to change the channel value. Press OK again to save the modified value, exit editing, and press Exit not to save the modified value, and directly exit editing.

System calibration

Enter the password "0000" and press " OK to enter.

option	illustrate
Motor calibration	After entering the sub-interface, the stroke of X axis, Y axis,rotation, focusing motor can be adjusted, and the adjustment range of 0~255,127 means that there is no adjustment.
Power calibration	After entering the sub-interface, the power of 19 beads can be adjusted, and the adjustment range of 0~255,255 means that there is no adjustment.
White balance calibration	After entering the sub-interface, the white balance calibration of the lamp’s total LED and LED1-19 can be adjusted, and the adjustment range of 0~255,255 means that there is no adjustment.

Other calibration	Voice-control sensitivity calibration and password modification.

Reset

Press Up and Down to switch the reset mode, and press OK to reset directly.

option	instruction
Network	IP/MS
Data package	Net(0-127)/Sub_Uni
Head reset	Effect motor reset except for XY
XY reset	XY axis reduction
Full reset	Lamps reset

System information

option	instruction
Reset information	If the red ERR indicator shines, the lamp is running wrong, and details can be viewed in the subinterface
And DMX data monitoring	This enters the subinterface to display channel values for viewing
Sensor information	Real-time monitoring of the light coupling, hall and other sensors on the lamp state
Hardware version number	Lighting hardware information
Software version number	Lamp software version

11. DMX Channels

（1）

CH23	**CH99**	**FUNCTION**	DMX VALUE	FUNCTION DESCRIPTION
1	1	Pan	0-255	X-axis control
2	2	Pan fine adjust	0-255	Pan fine adjust
3	3	Tilt	0-255	Y-axis control
4	4	Tilt fine adjust	0-255	Tilt fine adjust
5	5	Pan/Tilt speed	0-255	X-axis/Y-axis speed from fast to slow
6	6	Focus	0-255	Focus

7	7	Rotate	0-127	0~60 degrees
			128-188	Counterclockwise from fast to slow endless turn
			189-193	Stop
			194-255	Clockwise from slow to fast endless turn
8	8	Total dimmer	0-255	Linear dimming from dark to light
9	9	Stroboscopic	0-3	Light up
			4-200	Synchronous stroboscopic speed from slow to fast
			201-215	Low speed random stroboscopic
			216-234	Medium-speed random stroboscopic
			235-255	High-speed random stroboscopic
10	10	R-dimmer	0-255	Linear dimming from dark to light
11	11	G-dimmer	0-255	Linear dimming from dark to light
12	12	B-dimmer	0-255	Linear dimming from dark to light
13	13	W-dimmer	0-255	Linear dimming from dark to light
14	14	CTO	0-255	Linear color temperature regulation
15	15	Color macro	0-255	Built-in color gradient
16	16	Static effect	0-9	None
			10-14	Effect 1
			15-19	Effect 2
			20-24	Effect 3
			...	
			5 Count an effect	
			...	
			175-179	Effect 34
			180-184	Effect 35
			185-255	Effect 44
17	17	Dynamic effect	0-9	None

			10-14	Effect 1
			15-19	Effect 2
			20-24	Effect 3
			...	...
			5 Count an effect	
			220-224	Effect 43
			225-229	Effect 44
			230-255	Effect 45
18	18	Dynamic effect speed	0-126	Positive effect from fast to slow
			127-128	Stop
			129-255	Reverse direction effect from slow to fast
19	19	Background color R	0-255	Linear dimming from dark to light
20	20	Background color G	0-255	Linear dimming from dark to light
21	21	Background color B	0-255	Linear dimming from dark to light
22	22	Background color W	0-255	Linear dimming from dark to light
23	23	Reset	0-26	None
			27-76	Reset effect
			77-127	Reset scan
			128-255	Reset all
/	24	R1 LED dimming	0-255	R1 LED dimming
	25	G1 LED dimming	0-255	G1 LED dimming
	26	B1 LED dimming	0-255	B1 LED dimming
	27	W1 LED dimming	0-255	W1 LED dimming
	...	...	.....	.....
	...	...	.....	.....
	96	R19 LED dimming	0-255	R19 LED dimming

	97	G19 LED dimming	0-255	G19 LED dimming
	98	B19 LED dimming	0-255	B19 LED dimming
	99	W19 LED dimming	0-255	W19 LED dimming

(2)

CH21	CH35	CH78	CH92	CH97	FUNCTION	DMX VALUE	FUNCTION DESCRIPTION
1	1	1	1	1	red	0-255	Linear dimming from dark to light
2	2	2	2	2	Red fine	0-255	Red fine
3	3	3	3	3	green	0-255	Linear dimming from dark to light
4	4	4	4	4	Green fine	0-255	Green fine
5	5	5	5	5	blue	0-255	Linear dimming from dark to light
6	6	6	6	6	Blue fine	0-255	Blue fine
7	7	7	7	7	white	0-255	Linear dimming from dark to light
8	8	8	8	8	White fine	0-255	White fine
9	9	9	9	9	CTO	0-255	CTO
10	10	10	10	10	Macro	0-255	Color macro
11	11	11	11	11	Strobe	0-3	Light off
						4-103	Synchronous stroboscopic speed from slow to fast (1HZ-25HZ)
						104-107	Light up
						108-207	Bisecting strobe speed from slow to fast (1HZ-25HZ)
						208-212	Light up

						213-225	Low speed random stroboscopic
						226-238	Medium-speed random stroboscopic
						239-251	High-speed random stroboscopic
						252-255	Light up
12	12	12	12	12	Dimmer	0-255	Linear dimming from dark to light
13	13	13	13	13	Dimmer fine	0-255	Dimmer fine
14	14	14	14	14	pan	0-255	X-axis control
15	15	15	15	15	Pan fine	0-255	Pan fine adjust
16	16	16	16	16	Tilt	0-255	Y-axis control
17	17	17	17	17	Tilt fine	0-255	Tilt fine adjust
18	18	18	18	18	Function	0-255	Reserve
19	19	19	19	19	Reset	0-25	None
						26-76	Reset effect
						77-127	Reset scan
						128-255	Reset all
20	20	20	20	20	Focus	0-255	Focus
21	21	21	21	21	Rotate	0-127	0~60 degrees
						128-188	Counterclockwise from fast to slow endless turn
						189-193	Stop
						194-255	Clockwise from slow to fast endless turn
/	22	/	22	/	Built-in effect	0-7	None

						8	Static effect1
						9	Static effect2
						10	Static effect3
						11	None
						12	Static effect4
						13	Static effect5
						14	None
						15	Dynamic effect1
						16	Dynamic effect2
						17	Dynamic effect3
						18	Dynamic effect4
						19	Monochromatic random
						20	Full color random
						21	Rainbow effect1
						22	Rainbow effect2
						23	Dynamic effect5
						24	Dynamic effect6
						25	Dynamic effect7
						26	Dynamic effect8
						27	Dynamic effect9
						28	Dynamic effect10
						29	Dynamic effect11

						30	Dynamic effect12
						31	Dynamic effect13
						32	Dynamic effect14
						33	None
						34	None
						35	Dynamic effect15
						36	Dynamic effect16
						37	Dynamic effect17
						38	Dynamic effect18
						39	Dynamic effect19
						40	Dynamic effect20
						41	None
						42	Dynamic effect21
						43	None
						44	Dynamic effect22
						45	Dynamic effect23
						46	Dynamic effect24
						47	Dynamic effect25
						48	Dynamic effect26

						49	Dynamic effect27
						50	Dynamic effect28
						51	Dynamic effect29
						52	Dynamic effect30
						53	Dynamic effect31
						54	Dynamic effect32
						55	Dynamic effect33
						56	Dynamic effect34
						57	Dynamic effect35
						58	Dynamic effect36
						59	Dynamic effect37
						60	Dynamic effect38
						61	Random position1
						62	Random position2
						63	Random position3
						64	None
						65	Random position4
						66	Random position5

						67	Dynamic effect39
						68	Dynamic effect40
						69	None
						70	Dynamic effect41
						71-255	None
	23		23		Effect speed	0-63	Static effect
						64-158	Forward from fast to slow
						159-160	Stop
						161-255	Reverse from slow to fast
	24		24		Effect dilution	0-255	Dynamic effect dilution
	25		25		Red effect	0-255	Red dynamic effect
	26		26		Green effect	0-255	Green dynamic effect
	27		27		Blue effect	0-255	Blue dynamic effect
	28		28		White effect	0-255	White dynamic effect
	29		29		Effect dimming	0-255	Pattern 0-100% dimming
	30		30		Background dimming	0-255	Background 0-100% dimming
	31		31		Effect transition	0-255	Pattern change control
	32		32		Effect supplement	0-255	Pattern translation

	33		33		Foreground stroboscopic	0-255	Foreground stroboscopic（same 11 channel）
	34		34		Background stroboscopic	0-255	Background stroboscopic (same 11 channel)
	35		35		Background selection	0-255	Background selection
	/	22	36	22	R1 LED dimming	0-255	R1 LED dimming
		23	37	23	G1 LED dimming	0-255	G1 LED dimming
		24	38	24	B1 LED dimming	0-255	B1 LED dimming
				25	W1 LED dimming	0-255	W1 LED dimming
		25	39	26	R2 LED dimming	0-255	R2 LED dimming
		…			…	0-255	……
		76	91	94	R19 LED dimming	0-255	R19 LED dimming
		77	90	95	G19 LED dimming	0-255	G19 LED dimming
		78	92	96	B19 LED dimming	0-255	B19 LED dimming
		/	/	97	W19 LED dimming	0-255	W19 LED dimming

12. ROUTINE MAINTENANCE

CLEANING AND MAINTENANCE

WARNING! 

1、Turn off the power before opening any cover.

2、After the power supply is broken, the bottom is cooled and the lid is opened.

3、Dust or floats can be blown gently with a vacuum cleaner or a pressure blow machine.

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 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**.

www.cyclopslighting.com