

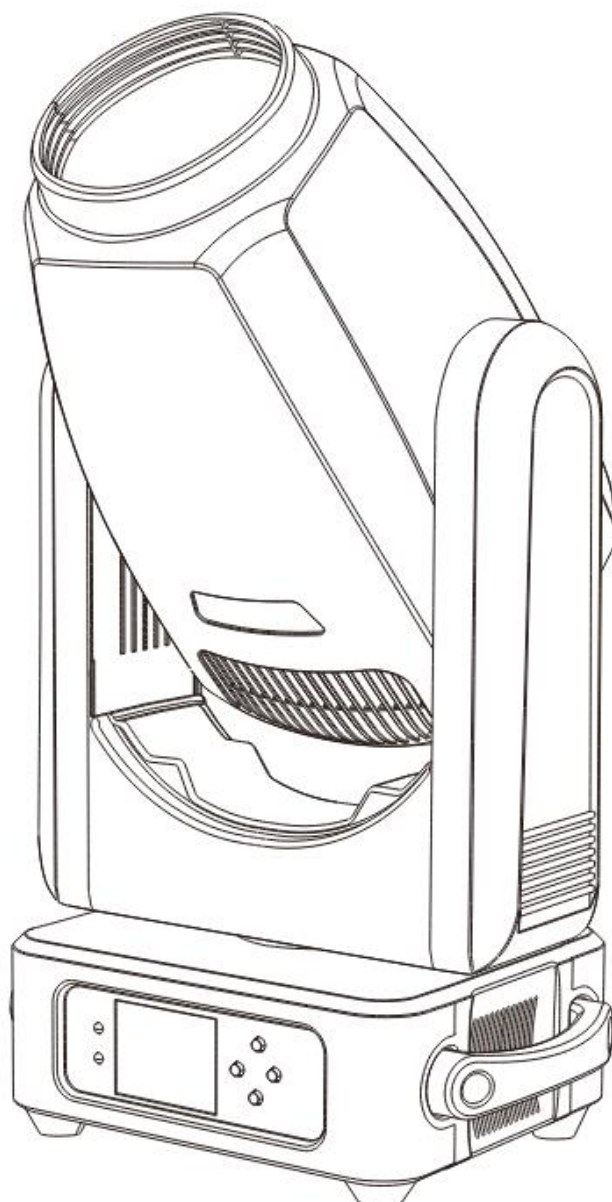
# CYCLOPS

LIGHTING

## ILLUMA 300H

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300W LED Spot, Beam, Wash Moving Head



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# 1. PRODUCT INTRODUCTION

The product is fully in conformity with the CE standard and the recipient country.  
Production enforces standard IEC 60598-1:2014, IEC60598-2-17:2017.

## SOURCE

- Light source: 300W LED white light module
- Color temperature: 8000K
- Output: 5000 lm
- Illuminance: at 10m illuminance 16700 lx/spot of 0.35m
- LED Life expectancy: 20,000 hours

## OPTICAL SYSTEM

- Beam angle: 3° to 39°
- Electronic Focus

## DYNAMIC EFFECTS

- Dimmer: 0-100% linear adjustment
- Electronic Strobe
- Color mixing: CMY
- Color wheel: 9 colors + white
- Static gobos: 11 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, Auto
- Channel mode: 16, 24 channels
- Quiet Fan Mode
- Display: 1.7-inch screen display, can reverse 180°

## MOVEMENT

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

## ELECTRICAL

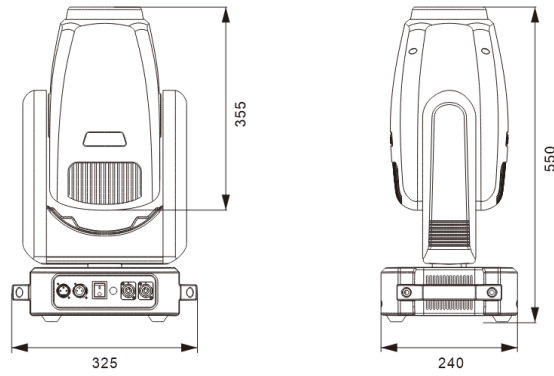
- Input voltage: AC110-240V/50-60Hz
- Power consumption: 400W

## PHYSICAL

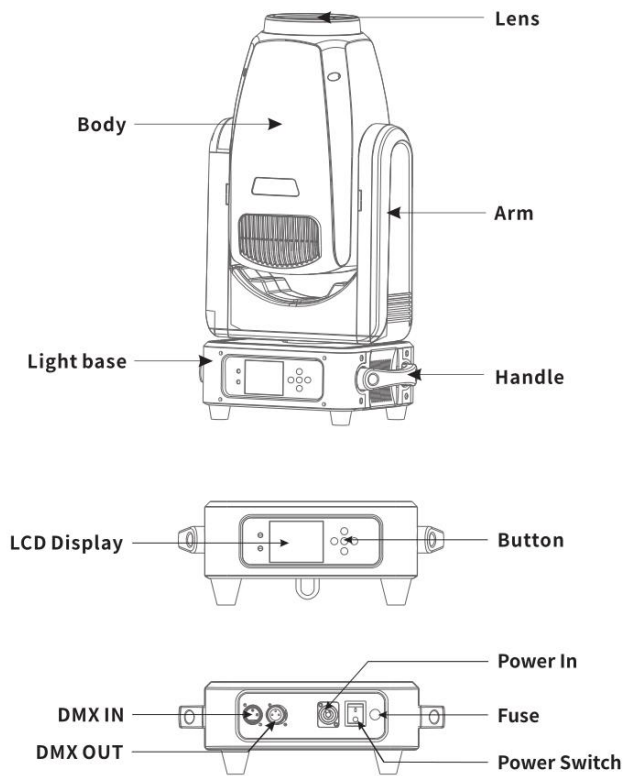
- IP Rate: IP20
- Dimensions: 325x240x550 mm
- Weight: 13.5 kg

## 2. FIXTURE SIZE

325mm (L) x240mm (W) x55mm (H)



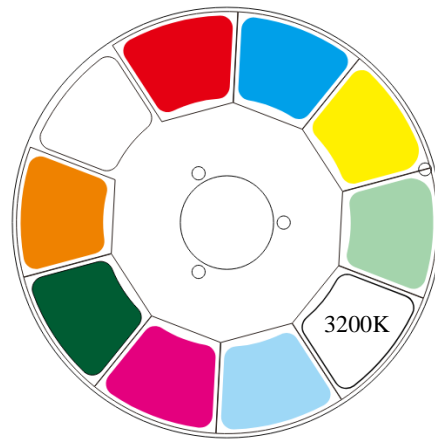
## 3. PARTS INTRODUCTION



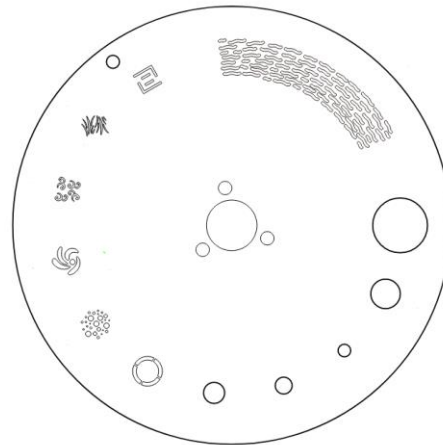
Each part of product structure and main composition product name description for better know the light unit.

## 4. COLOR AND GOBO WHEELS

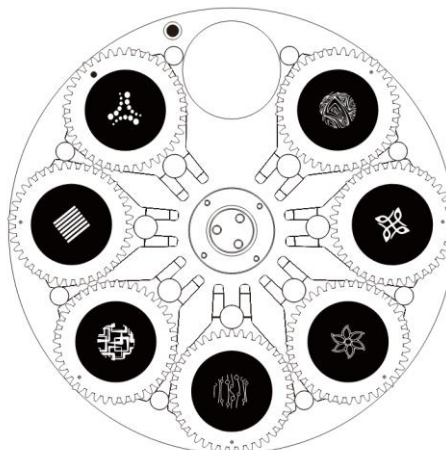
Color wheel: 6 colors + white light;



Fixed GOBO: 11 patterns + white light;



Rotation GOBO: 7 removable gobo wheels + white light;



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.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



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

### 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  $40^\circ\text{C}$ .

#### 5.4.2 ANTI-HIGH TEMPERATURE (Rated maximum ambient

temperature)



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

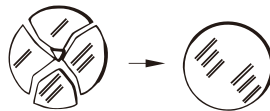
The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is  $90^\circ\text{C}$ .

### 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



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.

### 4.6 PREVENTION OF ELECTRIC 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

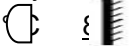


Before starting any maintenance, work or cleaning the projector, cut off power from the mains supply. After switching off, do not remove any parts of the fitting, to avoid getting burnt for at least 30 minutes. After this time the likelihood of the lamp exploding is virtually nil.

The fitting is designed to hold in any splinters produced by a lamp exploding. The lenses must be mounted and, if visibly Damaged, they have to be replaced with genuine spares.

## 5.8 TO PREVENT BURNING OR FIRE



1. The fixture can be mounted directly on the surface of ordinary combustible material.
2. Do not short-circuit temperature protection switch or fuse, use the specified type of fuse.
3. The equipment must be installed away from inflammable and explosive materials.
4. The equipment should be projected range of 8 meters away objects and projectiles temperature less than 60 
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 allows the device to cool for 20 minutes.
8. Do not replace the non-original parts.  
Packed with fly-case of 2in 1 OR 1 in 1 and carton box.

## 6. PACKAGE

### 6.1 ATTACH FOLLOW ACCESSORY

#### ACCESSORY

CONTENT	QUANTITY
USER MANUL	1
Safety Steels(Selection)	1
Clamps(Selection)	2
SIGNAL CABLE	1
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  
Pin2; -ve polarity signal  
Pin3: 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	Frequency	Total Power
AC110~240V~	50/60Hz	400W

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

### 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	COLOR TEMPERATURE
<b>LED 292W</b>	<b>292 W</b>	<b>20000 HOURS</b>	<b>8000 - 8400K</b>

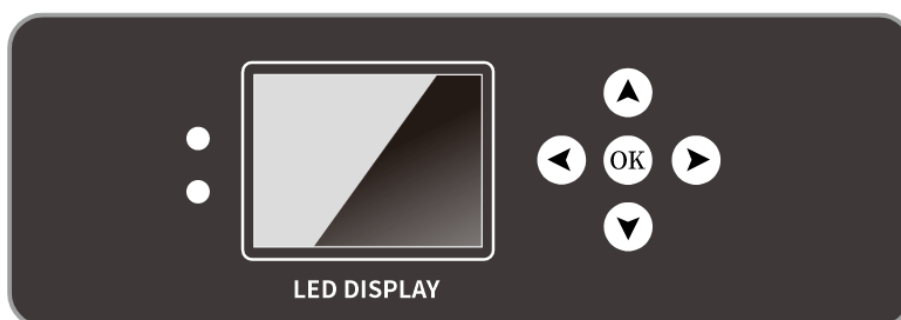
### 9.2 LED LAMP REPLACE



#### WARNING!

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

operating mode

<b>DMX Ctrl</b>	DMX mode, receive DMX signal, RDM signal
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<b>Auto Run</b>	Fixture run automatically according to built-in programs	
<b>Sound Ctrl</b>	When the fixture detects a strong sound, the fixture automatically runs a scene according to the built-in program, otherwise it will stay the last scene	
<b>Scene Mode 01</b>	runs in a set scene, which supports most of the custom editing of 10 scenes.	
	1~10	outputs the specified scene
	Auto	Automatically loops the output scene in the set scene time (non-zero) order, and the scene with time 0 automatically ignore
<b>M/S Choose</b>	Master and slave selection, non-DMX mode takes effect, select the mode of data output, fixture detect DMX cable state automatic switch output, prevent data conflicts	
	Master	fixture runs built-in program. If DMX has no signal, it outputs data (synchronization), otherwise it does not output data.
	Slave	ixture runs built-in program and do not output data
	Auto	If DMX has no signal, the fixture will runs built-in program. Otherwise, the fixture will run in DMX Mode(follow DMX).
<b>Lamp switch</b>	(Lamp light source) pop-up confirmation dialog box, select "SURE" to confirm the current operation, turn on or off the lamp, switch time interval limited to 30 seconds	
	Off	the current lamp output is off
	On	The current lamp output is turned on

Scene mode applies to a single or a small number of fixtures, just output a fixed scene, or need to run a simple program, you no need connect to the console, in the scene page can be edited.

If the light source is lamp, wait for 10 minutes before turning off the lamp.

### 1.Set display

The fixture support Chinese and English, invert display and so on. Enter the corresponding parameter settings as shown in Figure 6-3. The specific menu contents are as follows:

#### DISPLAY SETTING

<b>Language</b>	display language settings	
	English	English display
	Chinese	Chinese display
<b>Screen saver</b>	Set screen 30 seconds without operation, the screen's display content or method.	
	OFF	Keep the last operation page
	Mode1	Black
	Mode2	Black screen, showing the address code of the current fixture in the lower left corner.
	Mode3	Display trademark information, address code and operation mode.
<b>Screen Rot</b>	Set the display direction of the screen.	
	OFF	No reverse display
	ON	Reverse display
<b>DMX Indicate</b>	Set the indication mode of DMX signal indicator.	
	Mode1	When signal is bright, no signal is off.
	Mode2	When signal is off, no signal is bright.
	Mode3	When signal is flash, no signal is off.

<b>Screen Light</b>	Set the screen backlight for 10 seconds without operation	
	1~10	10

## 2.Scene

Enter the page shown in Figure 6-4, and the fixture enters the scene editing mode. Under this page, the fixture does not receive DMX console data, and the edited data will effect on the fixture immediately.

The content of the page depends on the currently selected channel mode, and the channel content and order displayed are consistent with the fixture channel table. Through this page, you can edit 10 scenes, as shown in the following table:

### SCENE MODE

<b>Scene</b>	Select the current operation scenario.	
<b>Select</b>	1~10	The 10 scenes set the format
<b>Scene Time</b>	Sets the retention time of the current scene when it is automatic, unit in 0.1 seconds.	
	0	The current scene is not output in automatic scene output.
	1-255	0..1s-25.5s
<b>1. PAN</b>	0-255	Set up the data of each channel, and the contents and order of the display are one-to-one correspondence with the channel list of fixture.
.....	0-255	
.....	0-255	
<b>N. Function</b>	0-255	

If the reset channel in the scene edits the effective reset data, the fixture will reset, but after reset, the corresponding reset channel value will automatically set 0, preventing multiple consecutive resets.

Looking at this page, you can get the current channel table slot of the fixture. For specific channel data, please refer to the detailed channel description.

## 3.Set light run parameter

Enter the page shown in Figure 6-5, adjust the field parameters of fixture, facilitate the installation of fixture, etc.

### ADVANCED SETTING

<b>Pan Invert</b>	Set the rotation direction of PAN	
	OFF	
	ON	
<b>Tilt Invert</b>	Set the rotation direction of TILT	
	OFF	
	ON	
<b>P/T Rectify</b>	Setting up fixture to detect XY lost step and correct	
	OFF	Uncorrected position after out of step
	ON	After losing step, the position is automatically corrected and the out of step fault is recorded.
<b>Pan Offset</b>	Setting the zero point of the PAN of the fixture	
	4-150	
<b>Tilt Offset</b>	Setting the zero point of the TILT of the fixture	
	4-48	
<b>Data hold</b>	When the fixture is not equipped with DMX signal, the output state of the fixture	

	OFF	No signal, so the motor and light source return to the position and state when reset is completed.
	ON	No signal, keep the last frame DMX data output.
<b>Lamp mode</b>	(lamp light source) Set the way to first open the lamp after power up	
	Power on	Turn on the lamp at power up and reset the lamp after 30 seconds.
	After reset	Reset the fixture after 3 seconds when power-on, and turn on the lamp after reset.
	Manual	After reset, manually turn on the lamp through the menu or console.
<b>Reset</b>	Reset fixture	
<b>Factory Setting</b>	Pop up the confirmation box, select "SURE", and return the lamp parameters to the factory settings.	

When choosing power-on mode, the lamp will wait for 30 seconds after power-on, let the lamp fully start, internal voltage is stable enough, then start the reset program, if the field capacity is stable, recommend power-on mode.

When the fixture cannot calibrate the position, please check whether the "P/T Rectify" is turned off.

When the signal is unplugged, check the Data Hold setting first if the position of the fixture is not output as expected.

When setting the XY offset, after setting up, please control XY with the maximum stroke first to check that XY will not bump into the positioning rod or shell.

#### 4. Status and information

Entering the page shown in Figure 6-6, you can view the information and real-time status of the fixture to get their usage status. If the fixture needs customer service, please provide the status information displayed on the page as a basis for judgment, as shown in the following table:

#### STATUS INFORMATION

<b>Stepper info</b>	Display information status of all motors and signals in fixture.	
	Hall	No display, indicating that the motor has no Hall, 0 indicating that the motor leaves the correction position point, 1 indicating that the motor is in the correction position point
	Status	Display motor reset status
	PAN	Display real-time position value of PAN optocoupler feedback
	TILT	Display real-time position value of TILT optocoupler feedback
	PAN OP	Displays the PAN TILT optocoupler two signal level state, binary
<b>Error Logging</b>	Show the latest 8 error records when the fixture is reset and running. The error records are not saved after power failure. The current power cycle is valid.	
	Error Logging	Total number of failures detected after power on
	12: :03	The time of power failure when the fault occurs is in minutes.
	Hall error	The effective hall signal is not detected when the motor is reset
	Hall short	When the motor is reset, the hall signal of the motor is always effective
	Opti error	No effective optocoupler signal is detected when the motor is reset.

	Lose stop	The corresponding motor is out of step during its operation.
	Hit	Striking the positioning rod when the motor is reset
	Lamp error	Lamp explosion accident
	NTC error	The temperature sensor signal is abnormal
	Fan error	The main fan is not working properly.
<b>Fixture status</b>	Displays the critical state data of the current fixture for reference.	
	Communication prec	0~100%, Communication quality of internal data link of lamps and lanterns
	Error cnt	The number of erroneous frames was detected after power on, and the total number of erroneous frames was detected.
	Light Temperature	Show the temperature of the current light source, "---" means no detection.
	Panel Temperature	Displays the temperature of the current display panel or the ambient temperature.
	Sensor1 Temperature	Display the ambient temperature of the motherboard temperature or the motherboard installation position.
<b>Version</b>	Display the information and version of the current fixture, important reference for after sales maintenance.	
	Device	The name of the fixture is the same as the equipment information of RDM.
	Model	The type of fixture is the same as the model information of RDM.
	Panel	Firmware version and serial number of display panel
	Main Board	Firmware version and serial number of mother board 1
<b>Light time</b>	Record the total cumulative time of light source opening, unit minute, user manual cleaning, as a reference for regular maintenance of light source time	
<b>Total time</b>	The total accumulated time for recording the opening of fixture is not allowed to be removed.	

## 12. DMX Channels

24CH	16CH	function	DMX value	function
1	1	Pan	0 - 255	Pan
2	*	Pan Fine	0 - 255	Pan Fine
3	2	Till	0 - 255	Till
4	*	Till Fine	0 - 255	Till Fine
5	3	Pan/Till Speed Adjust	0 - 255	Pan/Till Speed Adjust
6	4	Macro function	0 - 19	Empty
			20 - 24	Energy Saving Mode (230W)
			25 - 129	Empty
			130 - 139	Console Light On
			140 - 149	Pan/Till Reset
			150 - 159	Empty
			160 - 169	All small motors reset
			170 - 199	Empty

			200 - 209	Whole fixture reset
			210 - 229	Empty
			230 - 239	Console Light Off
			240 - 255	Empty
7	5	Color	0 - 3	Whith
			4 - 17	Dark Red
			18 - 29	Dark Blue
			30 - 42	Yellow
			43 - 55	Green
			56 - 62	Magenta
			69 - 80	Sky Blue
			81 - 93	Red
			94 - 106	Dark Green
			107 - 119	Amber
			120 - 129	White
			130 - 138	Red
			139 - 143	Blue
			144 - 147	Green
			148 - 152	Warm color
			153 - 157	Sky blue
			158 - 161	Magenta
			162 - 166	Dark green
			167 - 189	Amber
			190 - 220	Running water from fast to slow
221 - 250	Running water from slow to fast			
251 - 255	Empty			
8	*	*	*	Empty
9	6	*	*	Empty
10	7	Fixed GOBO	Fixed GOBO	
			0 - 3	Empty
			4-9	Small beam 1
			10-15	Small beam 2
			16 - 21	Small beam 3
			22 - 57	Empty
			58 - 87	Fixed GOBO
			GOBO shake from slow to fast	
			88 - 95	Empty
			96 - 103	Small beam 1
			104 - 111	Small beam 2
			112 - 119	Small beam 3
			120 - 167	Empty
			168 - 199	Water ripples
			200 - 201	Empty
			202 - 255	Fixed GOBO flow from slow to fast
11	8	Rotate GOBO	0 - 9	Empty
			10-19	GOBO 1

			20 - 29	GOBO 2
			30 - 39	GOBO 3
			40 - 49	GOBO 4
			50 - 59	GOBO 5
			60 - 69	GOBO 6
			70 - 79	GOBO 7
			GOBO shake from slow to fast	
			80 - 89	GOBO 1
			90 - 99	GOBO 2
			100 - 109	GOBO 3
			110 - 119	GOBO 4
			120 - 129	GOBO 5
			130 - 139	GOBO 6
			140 - 149	GOBO 7
			150 - 200	Running water from fast to slow
			201 - 255	Running water from slow to fast
12	9		0 - 127	Index
			128 - 177	Water flows clockwise from slow to fast
			178 - 203	Stop
			204 - 255	Counterclockwise flow from fast to slow
13	*	*	0 - 255	Empty
14	10		0 - 19	Empty
			20 - 75	Six-sided linear prism
			76 - 255	Eight-sided circular prism
15	11		0 - 127	Index
			128 - 191	Clockwise flow from fast to slow
			192 - 193	Empty
			194 - 255	Counterclockwise flow from slow to fast
16	12	Frost	0 - 64	Empty
			65 - 255	Frost
17	13	Zoom	0 - 255	linear zoom
18	*	Zoom in and fine-tune	0 - 255	Zoom in and fine-tune
19	14	Zoom	0 - 255	Zoom
20	*	Zoom in and fine-tune	0 - 255	Zoom in and fine-tune
21	*	Empty	0 - 255	Empty
22	15	Strobe	0 - 31	Strobe off
			32 - 63	Strobe on
			64 - 95	Strobe from slow to fast
			96 - 127	Strobe on
			128 - 143	From fast to slow to close to quick to open
			144 - 159	From slow to fast, fast on, slow off
			160 - 191	Strobe on
			192 - 223	Random strobe from slow to fast
			224 - 255	Strobe on
23	16	Dimming	0 - 255	Linear dimming
24	*			Empty

## 13. 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.

## 14. SIMPLE TROUBLESHOOTING

1. The whole device reacts...
  - 1) first check whether the power fuse is normal,
  - 2) check whether the output of switching power supply is normal, and the normal output of switching power supply is 27V.
2. If a one - way function is not normal... First, find the driving plug of the circuit board of this road, and change the two adjacent drive motor plugs to check out the problem of the board or the wiring or the motor.
3. If a one - way function is not normal... First, find the driving plug of the circuit board of this road, and change the two adjacent drive motor plugs to check out the problem of the board or the wiring or the motor.
4. If a few road function work is not normal... In general, a chip controls several drives at the same time, so it is possible that the chip is abnormal.