

# 800W LED Framing Moving Head

## USER MANUAL

(RDM TFT DISPLAY)



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# Chapter 1 Installation and attention

## 1. Maintenance

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Intermittently using will extend this item's service life.
- Please clear the fan, fan net, and optical lens in order to keep good work state.
- Do not use the alcohol or any other organic solvent to wipe the shell.

## 2. Statement

The product has perfect performance and integrity packing. All users should be strictly complying with the warning and operating instructions as stated. Any result by misusing is not within the Company's warranty. Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

**Note:** All information is subject to change without prior notice.

## 3. Safety Precaution

- In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60 degrees.
- Always install this unit in safe and stable matter.
- Install or dismantle should operate by professional engineer.
- Using lamp, the change rate of power voltage should be within  $\pm 10\%$ . If the voltage is too high, it will shorten the light's life; If it's not enough, will influence the effect.
- Please restart it 20 minutes later after turning off light, until full-cooling. Frequent switching will reduce the life span of lamps and bulbs; intermittent using will improve the life of bulbs and lamps.
- In order to make sure the product is used well, please read the Manual carefully.

## 4. Cable connection (DMX)

Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or cables with different specified characteristics. The end connections must be made using XLR type 3 or 5-pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 120Ohm (minimum 1/4 W) between terminals 2 and 3. Figure 1 shows a signal line connection diagram (the fixture in the figure is an example picture and doesn't represent the real exterior of this product).

**IMPORTANT:** The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the shield braid and to pin 1 of the connectors.

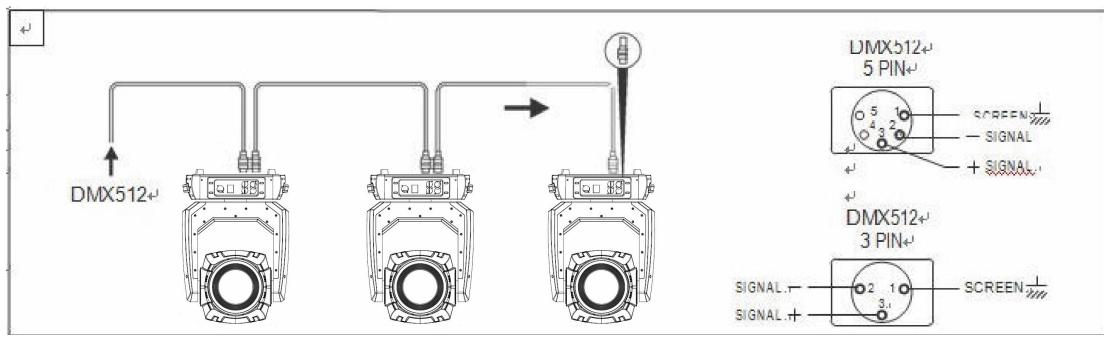


Figure 1 DMX Cable connection

## 5. Rigging (Optional)

As shown in Figure 2 (the fixture in the figure is an example picture and does not represent the real exterior of this product), this equipment can be positioned and fixed by clamp in every direction of the stage. Locking system makes it easy to fasten to the bracket.

Attention! Two clamps are needed to fix the equipment. Every clamp is locked by fastener of 1/4 kind. Fastener can only be locked clockwise.

Attention! Fasten a safety string to the additional hole of side aluminum piece. The secondary accessory can not hang on the delivery handle. Nip the equipment on bracket.

- Check if rigging clamp (not including the one inside) damaged or not? If stand ten times weight as the equipment. Make sure the architecture can stand ten times weight as all the equipments, clamps, wirings and other additional fixtures.
- Screws for clamping must be fixed firmly. Take one M12 screw (Grade 8.8 or higher) to clamp bracket, and then screw the nuts.
- Level the two hanging points at the bottom of clamp. Insert fastener to the bottom, lock the two levers by 1/4 rotating clockwise; then install another clamp.
- Install on safety string which stands at least ten times weight as equipment. Terminal of the accessory is designed for clamps.
- Make sure pan/tilt lock unlocked or not. Keep the distance more than 1M from equipment to flammable material or lighting source.

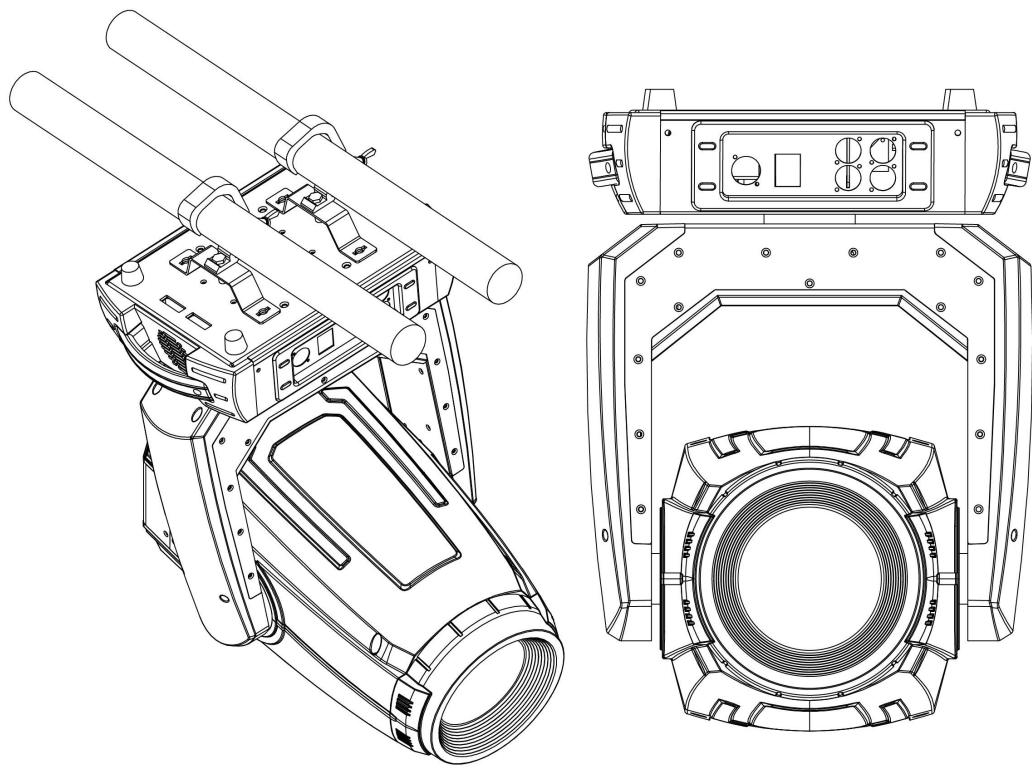


Figure 2 Installation

## 6. RDM Note

RDM is an extended version of DMX512-A protocol. It is a remote device management protocol. Traditional DMX512 protocol communication is one-way communication. The protocol is based on RS-485 bus. RS-485 is a time-sharing multi-point, half-duplex protocol. Only one port is allowed to output at the same time. So, when using RDM, we should pay attention to it. The following points:

- To use console or host device that supports RDM host protocol.
- Use bidirectional signal amplifier, traditional one-way signal amplifier is not suitable for RDM protocol, because the RDM protocol needs feedback data, the use of one-way amplifier will block the return of data, resulting in no search fixture;
- All fixture must be set to DMX mode to ensure only one host on the cable.
- A 120 ohm impedance matching resistor must be inserted between terminals 2 and 3 of the terminal plug. When the signal line is longer, reducing the signal reflection will make the differential signal more stable and beneficial to the quality of communication.
- When the fixture appears to accept DMX control, but can not be searched by RDM host, first check the signal amplifier, and then check whether the signal line 2, 3 lines have bad contact.

## Chapter 2 Panel operation

### 1. Brief

The light panel diagram show as Figure 3, above area is Title for fixture description, the black font in the lower right corner shows the fault status of the fixture (when the fault information is not viewed, it displays "ERR", otherwise it displays "NOR"), and the status bar below shows the signal of the current fixture , lamp status, communication status, etc. (the panel in the figure is an example picture and does not represent the real outside of the product panel, please select a panel of the same type as your product for reference.).

RDM protocol is embed in fixture, user set DMX address via cable using the controller support RDM function. when fixture was search by controller, display will echo 'RDM' indicate this RDM is work.

Note: Prevent damage the touch or TFT display, Can not use sharp objects chick display.

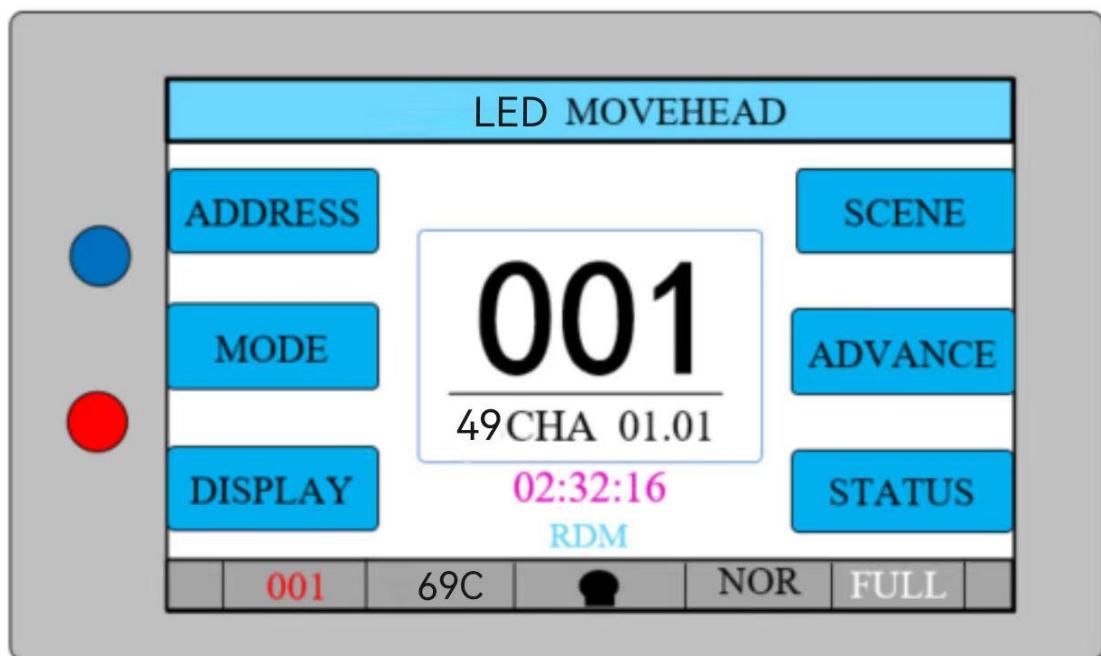


Figure 3 Panel diagram

### 2. Operation

#### 1. Operate fixture with button

- The left area is TFT Display, can view parameters and status.
- There are three operation modes, which are common buttons, touch buttons, and knobs. The operation method of touch buttons is the same as that of common buttons. The up and down button move the cursor to select parameters, press the OK button to confirm, and press the Exit button to return. If a knob is used, rotating in different directions can control the cursor up or down, and pressing the knob can confirm. If you want to go back, rotate the knob to move the cursor to the position of the Escape on the display, press the knob to confirm and return.

## 2. Parameter value setting

When the selected item is value need to be modified, the dialog shown in Figure 4 will popup.

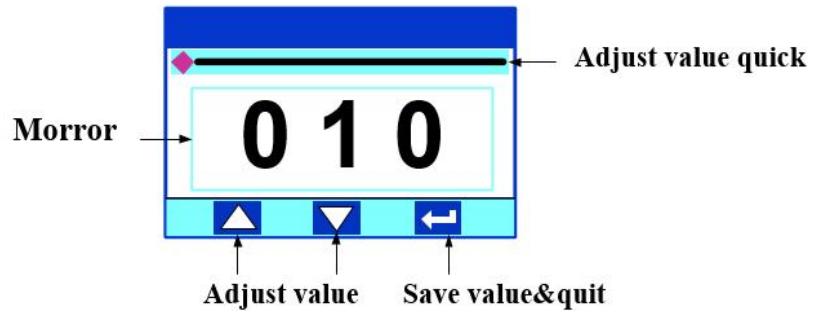


Figure 4 Dialog of value setting

- **Modify value:** Can quickly modify value via pull the slider to the desired position, or click the button of 'up' or 'down' with finger on the right side to set the exact desired value, another way is roll encoder on the right hand side of panel.
- **Save Value:** Any time, click on the lower right corner of the "OK" button, the setting will be saved into internal memory.

## 3. Boolean parameter setting

- when the selected parameters is a Boolean value (such as ON or OFF), can directly modify setting by click corresponding item, the setting will be saved right now.
- When the parameter is a key item, click corresponding item, a dialog shown in Figure 5 will be popup ask for the confirm. Click 'sure' to confirm.

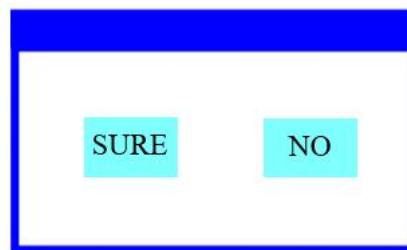


Figure 5 Dialog of confirm

#### 4. Sub Menu (Parameter)

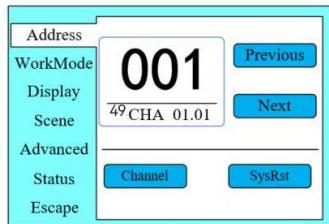


Figure 6-1 Address setting

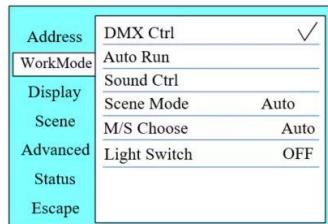


Figure 6-2 Run Settings



Figure 6-3 Display Settings

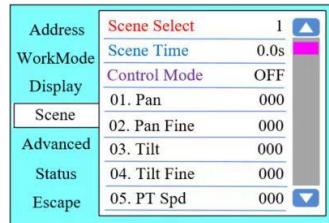


Figure 6-4 Scene Settings

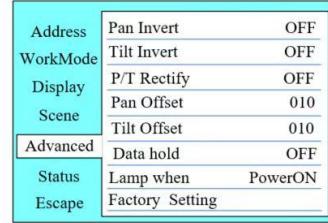


Figure 6-5 Advanced setting

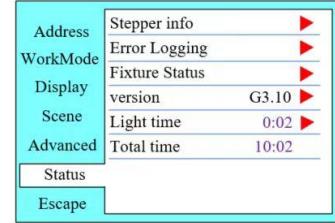


Figure 6-6 Status Settings

Figure 6 Parameter menu

### 3. Operation and parameter instruction

In the main interface, you can enter the corresponding parameter setting interface by selecting six buttons.

#### 1. DMX Address setting

Enter page show in Figure 6-1, can set fixture DMX address, channel mode and so on.

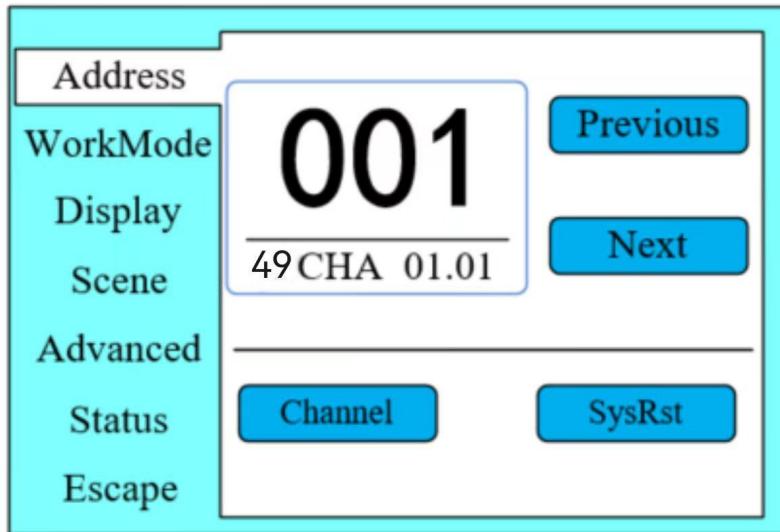


Figure 6-1

The menu settings of fixture have optimized the setting of addresses. Several settings of the address are as follows:

- Select " previous " or "next", the fixture will be based on the current address and channel

mode, automatically calculate the next or last address, make address setting can quickly;

- Click on the addressague, you can enter the numeric editing window, where you can set any valid address, fixture system automatically get the current number of channels, automatically filter the unusable address (512 - the current number of channels).
- Fixture support RDM protocol, remote address can be set through RDM.

Provide two buttons:

- Channel mode: you can choose different channel modes by cycle.
- Fixture reset: reset all motors. Set Light work mode

## 2. Fixture operating mode setting

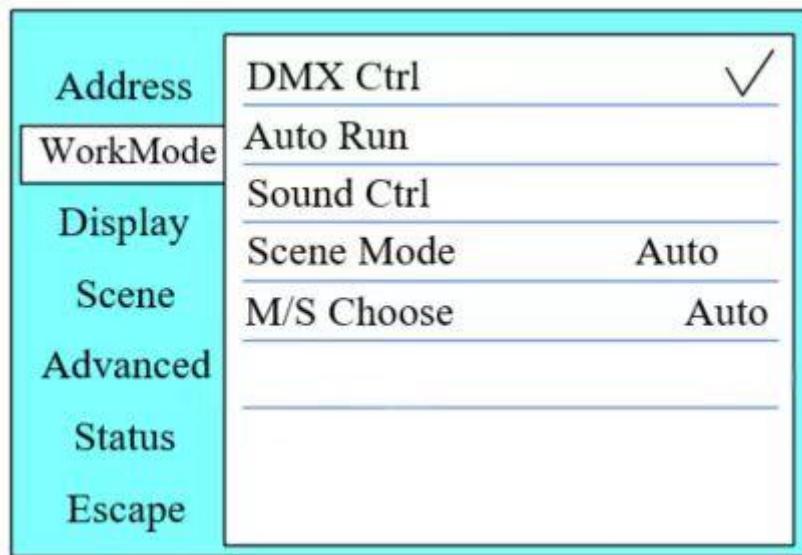


Figure 6-2

Through the page shown in Figure 6-2, the operating mode of the fixture can be set and the lamp can be controlled. The fixture supports four operating modes (DMX mode, auto mode, voice control mode and scene mode). Detailed parameter settings can be refer in the previous section. Specific parameter descriptions are as follows:

### operating mode

<b>DMX Ctrl</b>	DMX mode, receive DMX signal, RDM signal				
<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>	<p>runs in a set scene, which supports most of the custom editing of 10 scenes.</p> <table border="1"> <tr> <td>1~10</td><td>outputs the specified scene</td></tr> <tr> <td>Auto</td><td>Automatically loops the output scene in the set scene time (non-zero) order, and the scene with time 0 automatically ignore</td></tr> </table>	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
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>	<p>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</p> <table border="1"> <tr> <td>Master</td><td>Fixture runs built-in program. If DMX has no signal, it outputs data (synchronization), otherwise it does not output data.</td></tr> <tr> <td>Slave</td><td>Fixture runs built-in program and do not output data</td></tr> </table>	Master	Fixture runs built-in program. If DMX has no signal, it outputs data (synchronization), otherwise it does not output data.	Slave	Fixture runs built-in program and do not output data
Master	Fixture runs built-in program. If DMX has no signal, it outputs data (synchronization), otherwise it does not output data.				
Slave	Fixture runs built-in program and do not output data				

	Auto	If DMX has no signal, the fixture will run 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 fixture, 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.

### 3. Set display

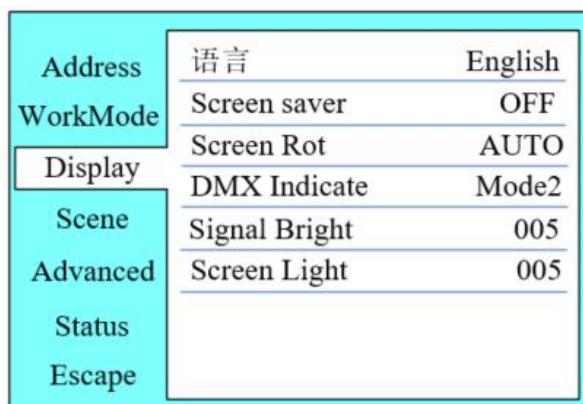


Figure 6-3

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.
	Mode4	Display trademark information, address code and operation mode, which lasts for 30 seconds, black screen.
<b>Screen Rot</b>	Set the display direction of the screen.	
	OFF	No reverse display
	ON	Reverse display
	AUTO	Automatically detect the direction of lamps and automatically switch direction.
<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>Signal Bright</b>	Set the brightness of the signal indicator	
	1~10	10

	Screen Light	Set the screen backlight for 10 seconds without operation
	1~10	10

#### 4. Scene

Enter the page shown in Figure 6-4(The channel shown in the picture is only an example of the function, please refer to the channel table description in the next section for the specific channel table of this product), and the fixture enters the scene editing mode. For example, under this page, when the [Control Mode] option is turned off, the fixture does not receive DMX console data, and the edited data will effect on the fixture immediately. When it turned on, the console signal is received and the console data is read and reflected on the corresponding channel display.

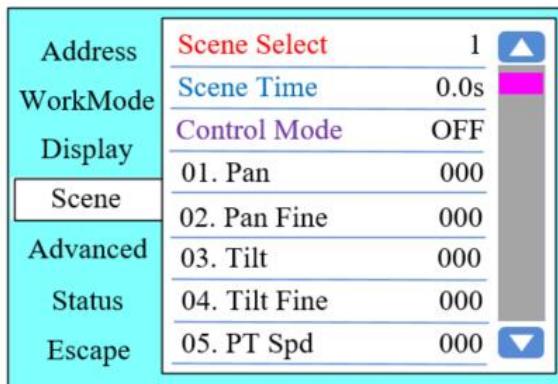


Figure 6-4

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 Select</b>	Select the current operation scenario.	
	1~10 The 10 scenes sets the format	
<b>Scene Time</b>	Sets the retention time of the current scene when it is automatic, the final time is determined by the scene time multiplier, unit in 0.1 seconds.	
	0 The current scene is not output in automatic scene output.	
	1-255	0..1s-25.5s
<b>Control Mode</b>	Choose whether to use the console to manipulate the settings data	
OFF	It is not possible to control the console and set the data directly from the current interface	
ON	Using console control, the console data comes first when setting, and the setting is invalid in the current interface	
<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.

## 5. Set light run parameter

Address	Pan Invert	OFF
WorkMode	Tilt Invert	OFF
Display	P/T Rectify	OFF
Scene	Pan Offset	010
Advanced	Tilt Offset	010
Status	Data hold	OFF
Escape	Lamp when	PowerON
	Factory Setting	

Figure 6-5

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	
<b>Tilt Invert</b>	Set the rotation direction of TILT	
	OFF	
<b>P/T Rectify</b>	Setting up fixture to detect XY lost step and correct	
	OFF	Uncorrected position after out of step
<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.
<b>Scene Time (multiple)</b>	Work with the scene time to determine the scene retention time	
	1-255	Retention time = Scene time * multiple
<b>Lamp mode</b>	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>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 can not 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.

## 6. Status and information

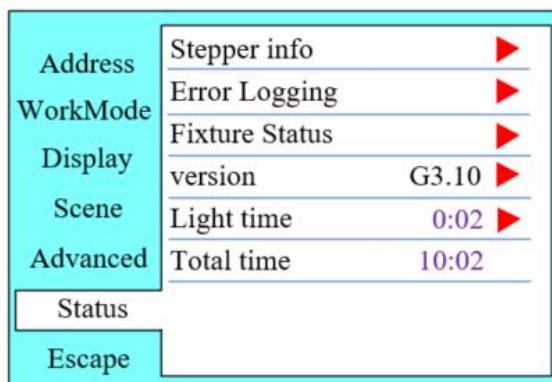


Figure 6-6

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 need 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.	

## Chapter 3 Channel description

### 1. Channel table

This fixture channel can be viewed in scene mode in order, channel mode is set in the "Address Settings" page, specific details of the data as follows:

DMX protocol

Robin Esprite - DMX protocol				
Version: 2.3 Mode 1 - Standard 16 bit, Mode 2 - Reduced 8 bit, Mode 3 -Standard 16 bit + green cone, Mode 4 -Reduced 8 bit + green cone.				
Quick overview of default DMX values for each channel				
Mode/channel			Default DMX Value	Function
1	2	3	4	
1	1	1	1	128 Pan
2	2	2	2	0 Pan Fine
3	3	3	3	128 Tilt
4	4	4	4	0 Tilt fine
5	5	5	5	0 Pan/Tilt speed , Pan/Tilt time
6	6	6	6	0 Power/Special functions
7	7	7	7	10 LED frequency selection
8	8	8	8	128 LED frequency fine adjusting
9	9	9	9	0 Max. light intensity indication and setting
10	10	10	10	0 Colour wheel 1
11	*	11	*	0 Colour wheel 1-fine positioning
12	11	12	11	0 Colour wheel 2
13	*	13	*	0 Colour wheel 2-fine positioning
14	12	14	12	0 Cyan
15	13	15	13	0 Magenta
16	14	16	14	0 Yellow
17	15	17	15	0 CTO
*	*	18	16	128 Green Correction
18	16	19	17	0 Virtual colour wheel
19	17	20	18	0 Effects speed
20	18	21	19	0 CMY+CTO+Colour wheels time
21	19	22	20	0 Static gobo / Framing shutters/Zoom/Focus/Iris/Frost/Prism time
22	20	23	21	0 Effect wheel positioning
23	21	24	22	128 Effect wheel rotation
24	22	25	23	0 Effect wheel animations
25	23	26	24	0 Static gobo wheel
26	24	27	25	0 Rotating gobo wheel
27	25	28	26	128 Rot. gobo indexing and rotation
28	*	29	*	0 Rot. gobo indexing/rotation - fine
29	26	30	27	0 Prism
30	27	31	28	128 Prism indexing/rotation
31	28	32	29	0 Frost
32	29	33	30	0 Iris
33	*	34	*	0 Iris - fine
34	30	35	31	128 Zoom
35	*	36	*	0 Zoom - fine
36	31	37	32	128 Focus
37	*	38	*	0 Focus - fine
38	32	39	33	128 Framing shutters module rotation
39	33	40	34	0 Framing shutter 1- movement
40	34	41	35	128 Framing shutter 1- swivelling
41	35	42	36	0 Framing shutter 2- movement
42	36	43	37	128 Framing shutter 2- swivelling
43	37	44	38	0 Framing shutter 3 movement

DMX protocol

Mode/channel				Default DMX Value	Function
1	2	3	4		
44	38	45	39	128	Framing shutter 3- swivelling
45	39	46	40	0	Framing shutter 4 movement
46	40	47	41	128	Framing shutter 4- swivelling
47	41	48	42	32	Shutter/ strobe
48	42	49	43	0	Dimmer intensity
49	*	50	*	0	Dimmer intensity - fine
Mode/channel				DMX Value	Function
1	2	3	4		Type of control
1	1	1	1		Pan
				0 - 255	Pan movement by 540° (128=default)
2	2	2	2		Pan Fine
					0 - 255 Fine control of pan movement (0=default)
3	3	3	3		Tilt
					0 - 255 Tilt movement by 265° (128=default)
4	4	4	4		Tilt fine
					0 - 255 Fine control of tilt movement (0=default)
5	5	5	5		Pan/Tilt speed , Pan/Tilt time
					0 Standard mode (0=default)
					1 Max. Speed Mode
					Pan/Tilt speed mode
					2 - 255 Speed from max. to min.
					Pan/Tilt time mode
					2 - 255 Time from 0.2 sec. to 25.5 sec.
6	6	6	6	Power/Special functions	
				Factory display menu setting: DMX Input-Wired ,Graphic display- On, Pan/tilt Mode-Speed,Blackout while pan/tilt moving-Off, Blackout while gobo wheels moving-Off,Blackout while colour wheels moving-Off, Fans mode-Auto, High-power mode - Off, Focus Tracking- Off, Gobo transition - Maximum speed and shutter	
				0 - 9 Reserved (0=default) To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. (Channel „Shutter/Strobe“ 47/41/48/42 must be at range: 0-31 DMX). Corresponding menu items are temporarily overwritten.	
				10-14	DMX input: Wired DMX *
				15-19	DMX input: Wireless DMX *
				* function is active only 10 seconds after switching the fixture on	
				20-24	Graphic display: On
				25-29	Graphic display: Off
				30-31	Quiet mode: Fans On at blackout
				32-33	Quiet mode: Fans Off at blackout
				34-35	Dimmer curve: Super Square Law
				36-39	Reserved
				40-44	Pan/Tilt mode: Speed
				45-49	Pan/Tilt mode: Time

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				50-54	Blackout while pan/tilt moving: On	step
				55-59	Blackout while pan/tilt moving: Off	step
				60-64	Blackout while gobo wheels moving: On	step
				65-69	Blackout while gobo wheels moving: Off	step
				70-74	Blackout while colour wheels moving: On	step
				75-79	Blackout while colour wheels moving: Off	step
				80-84	Fans mode: Auto	step
				85-89	Fans mode: High	step
				90-94	High-power mode: On	step
				95-99	High power mode: Off	step
				100-104	Focus Tracking: On	step
				105-109	Focus Tracking: Off	step
				110-114	Dimmer curve: Square law	step
				115-119	Dimmer curve: Linear	step
				120-124	Parking position: On	step
				125-129	Parking position: Off	step
				To activate following functions, stop in DMX value for at least 3 seconds.		
				130 - 139	Total fixture reset (without pan/tilt)	step
				140 - 149	Pan and Tilt reset	step
				150 - 159	Colour system reset	step
				160 - 169	Gobo wheels/effect wheel reset	step
				170-174	Pan reset	step
				175-179	Tilt reset	step
				180 - 189	Zoom/focus/frost/prism reset	step
				190 - 199	Iris /framing shutters reset	step
				200 - 209	Total fixture reset (including pan/tilt)	step
				210 - 218	Reserved	
				The following three commands define transition from gobo rotation to gobo indexing:		
				219 - 220	Gobo indexing: Maximum speed and shortcut	step
				221 - 222	Gobo indexing: Follow speed and direction	step
				223 - 224	Gobo indexing: Maximum speed and follow direction	step
				The following RoboSpot related commands are only applicable when the RoboSpot is connected:		
				225 - 229	RoboSpot enabled	step
				230 - 234	RoboSpot disabled - except handle faders and pan/tilt	step
				235 - 239	RoboSpot fully disabled	step
				240	Disabled "Quiet mode"	step
				241 - 255	Quiet mode - fan noise control from min. to max.	proportional
7	7	7	7	<b>LED frequency selection</b> Factory display menu setting: 600Hz Select PWM output frequency of LEDs. Selected PWM frequency can be fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item (Frequency Setup) is temporarily overridden.		
				0-4	PWM frequency from Display menu (fixture utilizes PWM frequency set in the display menu item Frequency Setup).	step
				5-9	300 Hz	step
				10-14	600 Hz (10=default)	step

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				15-19	1200 Hz	step
				20-24	2400 Hz	step
				25-255	Reserved (fixture utilizes PWM frequency set in the display menu item Frequency Setup).	
8	8	8	8		<b>LED frequency fine adjusting</b> Factory display menu setting: 600Hz <i>Select desired PWM output frequency of LEDs on the channel above.</i>	
				0-1	Selected LED Frequency	step
				2	LED Frequency (step -126)	step
				3	LED Frequency (step -125)	step
				4	LED Frequency (step -124)	step
				:		
				125	LED Frequency (step -3)	step
				126	LED Frequency (step -2)	step
				127	LED Frequency (step -1)	step
				128	Selected LED Frequency (128=default)	step
				129	LED Frequency (step +1)	step
				130	LED Frequency (step +2)	step
				131	LED Frequency (step +3)	step
				:		
				252	LED Frequency (step +124)	step
				253	LED Frequency (step +125)	step
				254	LED Frequency (step +126)	step
				255	Selected LED Frequency	step
9	9	9	9		<b>Max. light intensity indication and setting</b>	
				0-10	No function (0=default)	
				11-20	Indication of drop of max. light intensity  <i>A drop of max. light intensity of the fixture (compared to its original intensity) is indicated by a corresponding colour output: 0-5% (WHITE /new LED module/) 6-10% (RED) 11-15% (GREEN) 16-20% (BLUE) 21-25% (CYAN) 26-30% (MAGENTA) 31-35% (YELLOW) 36-40% (ORANGE) Pan/tilt/zoom is set at 128 DMX (50%), Dimmer is open at 255 DMX (100%).</i>	step
					<i>To set a drop of max. light intensity (compared to original light intensity), stay at DMX value for at least 3 sec. and shutter must be closed at least 3 sec. (Channel „Shutter/ Strobe“ 47/41 must be at range: 0-31 DMX). Corresponding menu items are permanently overwritten.</i>	
				21-30	Set drop by 6-10% (RED)	step
				31-40	Set drop by 11-15% (GREEN)	step
				41-50	Set Drop by 16-20% (BLUE)	step
				51-60	Set drop by 21-25% (CYAN)	step

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				61-70	Set drop by 26-30% (MAGENTA)	step
				71-80	Set drop by 31-35% (YELLOW)	step
				81-90	Set drop by 36-40% (ORANGE)	step
				91-100	Original intensity (WHITE)	step
				101-255	Reserved	
10	10	10	10		<b>Colour wheel 1</b>	
					<i>Continual positioning</i>	
				0	Open/white (0=default)	proportional
				21	Deep red	proportional
				43	Deep blue	proportional
				64	Orange	proportional
				86	Green	proportional
				107	Congo blue	proportional
				128-129	Open/White	step
					<i>Positioning</i>	
				130-141	Deep red	step
				142-153	Deep blue	step
				154-165	Orange	step
				166-177	Green	step
				178-189	Congo blue	step
				190 - 215	Forwards rainbow effect from fast to slow	proportional
				216 - 217	No rotation	step
				218 - 243	Backwards rainbow effect from slow to fast	proportional
				244 - 249	Random colour selection by audio control	step
					(Set microphone sensitivity in menu „Personality”)	
				250 - 255	Auto random colour selection from fast to slow	proportional
11	*	11	*		<b>Colour wheel 1 - fine positioning</b>	
				0 - 255	Fine positioning (0=default)	proportional
12	11	12	11		<b>Colour wheel 2</b>	
					<i>Continual positioning</i>	
				0	Open/white (0=default)	proportional
				21	Multicolour	proportional
				43	Laser green	proportional
				64	Lavender	proportional
				86	Filter CRI 80	proportional
				107	Filter CRI 90	proportional
				128-129	Open/White	step
					<i>Positioning</i>	
				130-141	Multicolour	step
				142-153	Laser green	step
				154-165	Lavender	step
				166-177	Filter CRI 80	step
				178-189	Filter CRI 90	step
				190 - 215	Forwards rainbow effect from fast to slow	proportional
				216 - 217	No rotation	step
				218 - 243	Backwards rainbow effect from slow to fast	proportional
				244 - 249	Random colour selection by audio control	step
					(Set microphone sensitivity in menu „Personality”)	

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				53-54	Filter 131 (Marine Blue)	step
				55-56	Filter 132 (Medium Blue)	step
				57-58	Filter 134 (Golden Amber)	step
				59-60	Filter 135 (Deep Golden Amber)	step
				61-62	Filter 136 (Pale Lavender)	step
				63-64	Filter 137 (Special Lavender)	step
				65-66	Filter 138 (Pale Green)	step
				67-68	Filter 139 (Primary Green)	step
				69-70	Filter 141 (Bright Blue)	step
				71-72	Filter 147 (Apricot)	step
				73-74	Filter 148 (Bright Rose)	step
				75-76	Filter 152 (Pale Gold)	step
				77-78	Filter 154 (Pale Rose)	step
				79-80	Filter 157 (Pink)	step
				81-82	Filter 158 (Deep Orange)	step
				83-84	Filter 162 (Bastard Amber)	step
				85-86	Filter 164 (Flame Red)	step
				87-88	Filter 165 (Daylight Blue)	step
				89-90	Filter 169 (Lilac Tint)	step
				91-92	Filter 170 (Deep Lavender)	step
				93-94	Filter 172 (Lagoon Blue)	step
				95-96	Filter 179 (Chrome Orange)	step
				97-98	Filter 180 (Dark Lavender)	step
				99-100	Filter 181 (Congo Blue)	step
				101-102	Filter 197 (Alice Blue)	step
				103-104	Filter 201 (Full C.T. Blue)	step
				105-106	Filter 202 (Half C.T. Blue)	step
				107-108	Filter 203 (Quarter C.T. Blue)	step
				109-110	Filter 204 (Full C.T. Orange)	step
				111-112	Filter 205 (Half C.T. Orange)	step
				113-114	Filter 206 (Quarter C.T. Orange)	step
				115-116	Filter 247 (Filter Minus Green)	step
				117-118	Filter 248 (Half Minus Green)	step
				119-120	Filter 281 (Three Quarter C.T. Blue)	step
				121-122	Filter 285 (Three Quarter C.T. Orange)	step
				123-124	Filter 352 (Glacier Blue)	step
				125-126	Filter 353 (Lighter Blue)	step
				127-128	Filter 715 (Cabana Blue)	step
				129-130	Filter 778 (Millennium Gold)	step
				131-132	Filter 793 (Vanity Fair)	step
				133-255	Reserved	
19	17	20	18		<b>Effects Speed</b> <i>Speed of CMY&amp;CTO movement and Rot. Gobo/Static Gobo selection</i>	
				0-255	Speed of CMY+CTO movement from max. to min. (0=default)	proportional
				0-255	Speed of Rot. Gobo/Stat. Gobo selection from max. to min.	proportional
20	18	21	19		<b>CMY+CTO+Colour wheels time</b>	
				0	Function is off (0=default)	step

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				1 - 255	Time of CMY, CTO and Colour wheels movement (0.1sec-->25.5sec.)	proportional
21	19	22	20		<b>Static gobo wheel/ Framing shutters/Zoom/Focus/Iris/Frost/Prism time</b>	
				0	Function is off (0=default)	step
				1-255	Time of Static gobo movement (0.1 sec-->25.5 sec.)	proportional
				1 - 255	Time of framing shutters, zoom, focus, iris and frost movement (0.1 sec-->25.5 sec.)	proportional
				1-50	Time of prism movement (0.1 sec-->5 sec.)	proportional
22	20	23	21		<b>Effect wheel positioning</b>	
				0-19	No function (0=default)	step
				20-127	Proportional indexing (73-center)	proportional
				128-170	Ramping from open to full position ( max-->min. speed)	proportional
				171-213	Ramping from open to half position ( max. -->min. speed)	proportional
				214-255	Ramp. from half position to full position ( max. -->min. speed)	proportional
23	21	24	22		<b>Effect wheel rotation</b>	
				0	No rotation	step
				1 - 127	Forwards rotation from fast to slow	proportional
				128	No rotation (128=default)	step
				129 - 255	Backwards rotation from slow to fast	proportional
24	22	25	23		<b>Effect wheel animations</b>	
				0-7	No animation (0=default)	
					<i>Note : Set suitable DMX value at Focus channel to get desired animation. All animations were created at distance of 5 m from screen with zoom=128 DMX. Focus value is different for each effect (focus value is stated in parentheses for this distance)</i>	
					<i>The following channels are blocked: Effect wheel positioning, Effect wheel rotation, Static gobo wheel. Rotating gobo wheel, Rot. Gobo indexing and rotation, Rot. Gobo wheel fine rotation.</i>	
				8-9	Macro 1 (Focus=159)	step
				10-11	Macro 2 (Focus=144)	step
				12-13	Macro 3 (Focus=146)	step
				14-15	Macro 4 (Focus=160)	step
				16-17	Macro 5 (Focus=181)	step
				18-19	Macro 6 (Focus=181)	step
				20-21	Macro 7 (Focus=166)	step
				22-23	Macro 8 (Focus=142)	step
				24-25	Macro 9 (Focus=151)	step
				26-27	Macro 10 (Focus=152)	step
				28-255	Reserved	
25	23	26	24		<b>Static gobo wheel</b>	
				0-8	Open/hole (0=default)	step
				9-17	Gobo 1	step
				18-26	Gobo 2	step
				27-35	Gobo 3	step
				36-44	Gobo 4	step
				45-53	Gobo 5	step
				54-62	Gobo 6	step
				63-71	Gobo 7	step
				72-80	Gobo 8	step

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				81-91	Gobo 9 <i>Shaking gobos from slow to fast</i>	step
				92-103	Gobo 1	proportional
				104-115	Gobo 2	proportional
				116-127	Gobo 3	proportional
				128-139	Gobo 4	proportional
				140-151	Gobo 5	proportional
				152-163	Gobo 6	proportional
				164-175	Gobo 7	proportional
				176-187	Gobo 8	proportional
				188-199	Gobo 9	proportional
				200 - 201	Open/hole	step
				202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
				223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
				244 - 249	Random gobo selection by audio control <i>(Set microphone sensitivity in menu „Personality”)</i>	step
				250 - 255	Auto random gobo selection from fast to slow	proportional
<b>26</b>	<b>24</b>	<b>27</b>	<b>25</b>	<b>Rotating gobo wheel</b> <i>Index - set indexing on channel 27/25/28/26</i>		
				0-3	Open/hole (0=default)	step
				4-7	Gobo 1	step
				8-11	Gobo 2	step
				12-15	Gobo 3	step
				16-19	Gobo 4	step
				20-23	Gobo 5	step
				24-27	Gobo 6	step
				28-31	Gobo 7	step
				<i>Rotation - set rotation on channel 27/25/28/26</i>		
				32-35	Gobo 1	step
				36-39	Gobo 2	step
				40-43	Gobo 3	step
				44-47	Gobo 4	step
				48-51	Gobo 5	step
				52-55	Gobo 6	step
				56-59	Gobo 7	step
				<b>Shaking gobos from slow to fast</b> <i>Index - set indexing on channel 27/25/28/26</i>		
				60 - 69	Gobo 1	proportional
				70 - 79	Gobo 2	proportional
				80 - 89	Gobo 3	proportional
				90 - 99	Gobo 4	proportional
				100 - 109	Gobo 5	proportional
				110 - 119	Gobo 6	proportional
				120 - 129	Gobo 7	proportional
				<b>Shaking gobos from slow to fast</b> <i>Rotation - set rotation on channel 27/25/28/26</i>		
				130 - 139	Gobo 1	proportional
				140 - 149	Gobo 2	proportional

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				150 - 159	Gobo 3	proportional
				160 - 169	Gobo 4	proportional
				170 - 179	Gobo 5	proportional
				180 - 189	Gobo 6	proportional
				190 - 199	Gobo 7	proportional
				200 - 201	Open/hole	step
				202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
				223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
				244 - 249	Random gobo selection by audio control	step
					{Set microphone sensitivity in menu „Personality”}	
				250 - 255	Auto random gobo selection from fast to slow	proportional
27	25	28	26	<b>Rot. gobo indexing and rotation</b>		
				<i>Gobo indexing - set position on channel 26/24/27/25</i>		
				0 - 255	Gobo indexing (128=default)	proportional
				<i>Gobo rotation - set position on channel 26/24/27/25</i>		
				0	No rotation	step
				1 - 127	Forwards gobo rotation from fast to slow	proportional
				128	No rotation (128=default)	step
				129 - 255	Backwards gobo rotation from slow to fast	proportional
28	*	29	*	<b>Rot. gobo indexing/rotation - fine</b>		
				0-255		
				Fine indexing/rotation (0=default)		
29	26	30	27	<b>Prism</b>		
				0 - 19	Open position - hole (0=default)	step
				20 - 73	Prism indexing	step
				74-127	Prism rotation	step
				<b>Prism/gobo macros</b>		
				<i>The following channels are blocked: Prism, Prism rotation, Static gobo wheel, Rotating gobo wheel, Rot. Gobo indexing and rotation, Rot. Gobo wheel fine rotation.</i>		
				128 - 135	Macro 1	step
				136 - 143	Macro 2	step
				144 - 151	Macro 3	step
				152 - 159	Macro 4	step
				160 - 167	Macro 5	step
				168 - 175	Macro 6	step
				176 - 183	Macro 7	step
				184 - 191	Macro 8	step
				192 - 199	Macro 9	step
				200 - 207	Macro 10	step
				208 - 215	Macro 11	step
				216 - 223	Macro 12	step
				224 - 231	Macro 13	step
				232 - 239	Macro 14	step
				240 - 247	Macro 15	step
				248 - 255	Macro 16	step
30	27	31	28	<b>Prism indexing/rotation</b>		
				<i>Prism indexing - set position on channel 29/26/30/27</i>		
				0 - 255	Prism 1 indexing	proportional

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
					<i>Prism rotation - set position on channel 29/26/30/27</i>	
				0	No rotation	step
				1 - 127	Forwards prism rotation from fast to slow	proportional
				128	No rotation (128=default)	step
				129-255	Backwards prism rotation from slow to fast	proportional
<b>31</b>	<b>28</b>	<b>32</b>	<b>29</b>		<b>Frost</b>	
				0	Open (0=default)	step
					<i>Light Frost</i>	
				1-50	Light Frost from 0% to 100%	proportional
				51-53	100% Light Frost	step
				54-63	Pulse closing from slow to fast	proportional
				64-73	Pulse opening from fast to slow	proportional
				74-83	Ramping from fast to slow	proportional
				84-86	Open	step
					<i>Medium Frost</i>	
				87-136	Medium Frost from 0% to 100%	proportional
				137-139	100% Medium Frost	step
				140-149	Pulse closing from slow to fast	proportional
				150-159	Pulse opening from fast to slow	proportional
				160-169	Ramping from fast to slow	proportional
				170-172	Open	step
					<i>Combined Frost</i>	
				173-222	Medium Frost from 0% to 100% (Light Frost inserted)	proportional
				223-225	100% Medium Frost (Light Frost inserted)	step
				226-235	Pulse closing from slow to fast	proportional
				236-245	Pulse opening from fast to slow	proportional
				246-255	Ramping from fast to slow	proportional
<b>32</b>	<b>29</b>	<b>33</b>	<b>30</b>		<b>Iris</b>	
				0	Open (0=default)	step
				1 - 179	From max. diameter to min. diameter	proportional
				180 - 191	Closed	step
					<i>Pulse effects with Iris blackout</i>	
				192 - 219	Pulse opening from slow to fast	proportional
				220 - 247	Pulse closing from fast to slow	proportional
				248 - 249	Random pulse opening (fast)	step
				250 - 251	Random pulse opening (slow)	step
				252 - 253	Random pulse closing (fast)	step
				254 - 255	Random pulse closing (slow)	step
<b>33</b>	*	<b>34</b>	*		<b>Iris - fine</b>	
				0 - 255	Fine iris movement (0=default)	proportional
<b>34</b>	<b>30</b>	<b>35</b>	<b>31</b>		<b>Zoom</b>	
				0 - 255	Zoom from max. to min. beam angle (128=default)	proportional
<b>35</b>	*	<b>36</b>	*		<b>Zoom - fine</b>	
				0-255	Fine zooming (0=default)	proportional
<b>36</b>	<b>31</b>	<b>37</b>	<b>32</b>		<b>Focus</b>	
				0 - 255	Continuous adjustment from far to near (128=default)	proportional
<b>37</b>	*	<b>38</b>	*		<b>Focus - fine</b>	
				0-255	Fine focusing (0=default)	proportional

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
38	32	39	33		<b>Framing shutters module rotation</b>	
				0-127	Rotation from right (0°) to 60°	proportional
				128	Centre (128=default)	step
				129-255	Rotation from 60° to left (120°)	proportional
39	33	40	34		<b>Framing shutter 1- movement</b>	
				0-255	Movement from Outward to Inward (0=default)	proportional
40	34	41	35		<b>Framing shutter 1- swivelling</b>	
				0-127	Swivelling from -30 degrees towards 0 degrees	proportional
				128	0 degrees (128=default)	step
				129-255	Swivelling from 0 degrees to +30 degrees	proportional
41	35	42	36		<b>Framing shutter 2- movement</b>	
				0-255	Movement from Outward to Inward (0=default)	proportional
42	36	43	37		<b>Framing shutter 2- swivelling</b>	
				0-127	Swivelling from -30 degrees towards 0 degrees	proportional
				128	0 degrees (128=default)	step
				129-255	Swivelling from 0 degrees to +30 degrees	proportional
43	37	44	38		<b>Framing shutter 3 movement</b>	
				0-255	Movement from Outward to Inward (0=default)	proportional
44	38	45	39		<b>Framing shutter 3- swivelling</b>	
				0-127	Swivelling from -30 degrees towards 0 degrees	proportional
				128	0 degrees (128=default)	step
				129-255	Swivelling from 0 degrees to +30 degrees	proportional
45	39	46	40		<b>Framing shutter 4 movement</b>	
				0-255	Movement from Outward to Inward (0=default)	proportional
46	40	47	41		<b>Framing shutter 4- swivelling</b>	
				0-127	Swivelling from -30 degrees towards 0 degrees	proportional
				128	0 degrees (128=default)	step
				129-255	Swivelling from 0 degrees to +30 degrees	proportional
47	41	48	42		<b>Shutter/ strobe</b>	
				0 - 31	Shutter closed	step
				32 - 63	Shutter open (32=default)	step
				64 - 95	Strobe-effect from slow to fast	proportional
				96 - 127	Shutter open	step
				128 - 143	Opening pulse in sequences from slow to fast	proportional
				144 - 159	Closing pulse in sequences from fast to slow	proportional
				160 - 191	Shutter open	step
				192 - 223	Random strobe-effect from slow to fast	proportional
				224 - 255	Shutter open	step
48	42	49	43		<b>Dimmer intensity</b>	
				0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
49	*	50	*		<b>Dimmer intensity - fine</b>	
				0 - 255	Fine dimming (0=default)	proportional

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All Specifications subject to change without notice

Robin Esprite - Colours on Virtual Colour Wheel						
Colour name	Col. Wheel 1 DMX	Col. Wheel 2 DMX	Cyan DMX	Magenta DMX	Yellow DMX	CTO DMX
Filter 4 (Medium Bastard Amber)	0	0	0	134	150	225
Filter 10 (Medium Yellow)	0	0	0	45	210	255
Filter 19 (Fire)	154	0	0	210	0	0
Filter 26 (Bright Red)	130	0	0	45	255	90
Filter 58 (Lavender)	0	0	10	205	93	101
Filter 68 (Sky Blue)	0	154	165	120	0	0
Filter 71 (Tokyo Blue)	144	0	0	0	0	0
Filter 79 (Just Blue)	0	154	165	135	0	0
Filter 88 (Lime Green)	0	142	0	90	0	225
Filter 90 (Dark Yellow Green)	0	142	201	0	147	0
Filter 100 (Spring Yellow)	0	0	0	0	210	165
Filter 101 (Yellow)	0	0	0	75	210	255
Filter 102 (Light Amber)	0	0	0	60	165	240
Filter 103 (Straw)	0	0	0	0	150	240
Filter 104 (Deep Amber)	0	0	0	150	225	210
Filter 105 (Orange)	0	0	0	195	240	150
Filter 106 (Primary Red)	154	0	0	240	0	15
Filter 111 (Dark Pink)	0	0	0	182	164	255
Filter 115 (Peacock Blue)	0	0	246	0	185	0
Filter 116 (Medium Blue-Green)	0	0	239	0	193	0
Filter 117 (Steel Blue)	0	0	180	90	165	15
Filter 118 (Light Blue)	0	0	225	0	165	30
Filter 119 (Dark Blue)	0	0	255	120	0	0
Filter 120 (Deep Blue)	0	154	255	30	0	105
Filter 121 (Filter Green)	0	142	135	0	210	0
Filter 128 (Bright Pink)	0	0	52	235	194	113
Filter 131 (Marine Blue)	0	0	210	15	135	30
Filter 132 (Medium Blue)	0	0	240	0	15	105
Filter 134 (Golden Amber)	0	0	49	201	237	28
Filter 135 (Deep Golden Amber)	0	0	49	223	254	40
Filter 136 (Pale Lavender)	0	0	64	198	131	0
Filter 137 (Special Lavender)	0	0	34	159	112	0
Filter 138 (Pale Green)	0	0	120	81	201	50
Filter 139 (Primary Green)	166	0	0	0	0	240
Filter 141 (Bright Blue)	0	0	240	0	45	195
Filter 147 (Apricot)	0	0	0	182	221	0
Filter 148 (Bright Rose)	0	0	0	225	217	0
Filter 152 (Pale Gold)	0	0	57	190	204	0
Filter 154 (Pale Rose)	0	0	57	185	189	67
Filter 157 (Pink)	0	0	59	224	223	0
Filter 158 (Deep Orange)	0	0	0	220	255	0
Filter 162 (Bastard Amber)	0	0	0	165	195	0
Filter 164 (Flame Red)	154	0	0	240	30	195
Filter 165 (Daylight Blue)	0	0	210	0	0	75
Filter 169 (Lilac Tint)	0	0	87	202	169	0

Colour name	Col. Wheel 1 DMX	Col. Wheel 2 DMX	Cyan DMX	Magenta DMX	Yellow DMX	CTO DMX
Filter 170 (Deep Lavender)	0	0	98	200	133	0
Filter 172 (Lagoon Blue)	0	0	225	30	135	15
Filter 179 (Chrome Orange)	0	0	57	190	240	0
Filter 180 (Dark Lavender)	0	0	175	185	0	0
Filter 181 (Congo Blue)	0	0	195	225	0	15
Filter 197 (Alice Blue)	0	154	225	0	0	60
Filter 201 (Full C.T. Blue)	0	0	180	0	105	60
Filter 202 (Half C.T. Blue)	0	0	168	0	37	118
Filter 203 (Quarter C.T. Blue)	0	0	135	45	120	0
Filter 204 (Full C.T. Orange)	0	0	0	195	240	30
Filter 205 (Half C.T. Orange)	0	0	90	180	210	0
Filter 206 (Quarter C.T. Orange)	0	0	0	165	163	30
Filter 247 (Filter Minus Green)	0	0	0	184	131	20
Filter 248 (Half Minus Green)	0	0	48	134	110	24
Filter 281 (Three Quarter C.T. Blue)	0	0	180	0	105	120
Filter 285 (Three Quarter C.T. Orange)	0	0	0	173	234	90
Filter 352 (Glacier Blue)	0	0	210	0	105	60
Filter 353 (Lighter Blue)	0	0	220	0	144	0
Filter 715 (Cabana Blue)	0	154	255	0	0	105
Filter 778 (Millennium Gold)	0	0	0	215	255	0
Filter 793 (Vanity Fair)	0	0	15	225	0	255

**Robin Esprite - CTO DMX values**

Colour temperature (K)	DMX value	
	HP module	HCF module
2200	*	255
2800	*	224
3000	255	208
3200	213	197
3600	182	183
4000	160	131
4500	131	95
4800	115	73
5000	103	59
5600	67	17
5800	54	0
6000	41	*
6500	0	*

Note: zoom 128DMX