

Magnesium Alloy IP Waterproof 800w Framing Beam Spot Wash 4in1 Led Moving Head



USER MANUAL

(TFT DISPLAY)

Chapter 1 Panel operation

1. Brief

The diagram of the display panel show as Figure 3, above area is title for fixture description, the white 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 , fixture status, communication status, etc. (the panel in the figure is an example picture and does not represent the real appearance of the product panel, please select the 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, displayer will echo 'RDM' indicate this RDM is work.

Note: Prevent damage the TFT displayer, Can not use sharp objects chick displayer.

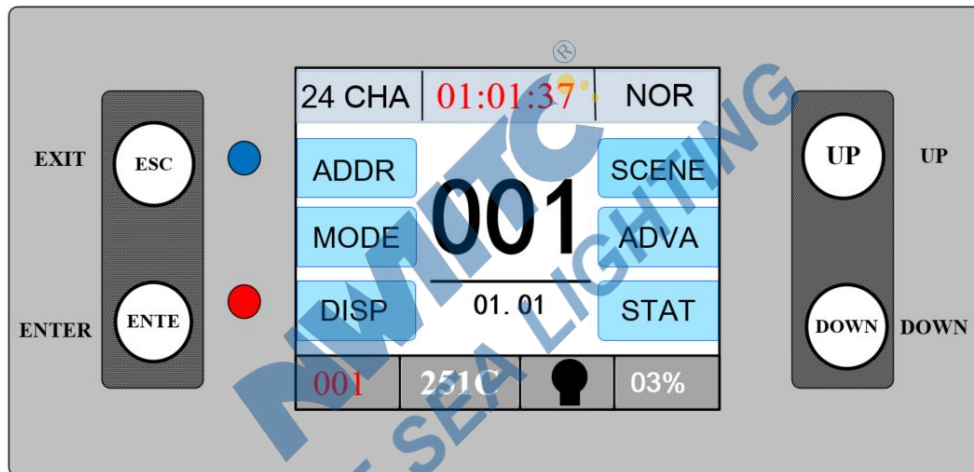


Figure 3 Diagram of the Spring button display panel

2. Operation

1. Operate fixture with touch button

- The middle area is the display area, both sides of the area is the input area, you can use the touch key to control the cursor to select the item that needs to be set or viewed, and press the "ENTE" button to complete the operation.

2. Parameter value setting

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



Figure 4 Dialog of value setting

- **Modify value:** The desired value can be set by pressing the "Up" and "Down" buttons.
- **Save Value:** After setting the data by pressing the button, press the "ENTE" button, the values are immediately saved to the internal memory, and the saved values are applied to the fixture the next time the machine is turned on.

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 been saved right now.
- When the parameter is a key item, click corresponding item, a dialog shown in Figure 5 will been popup ask for the confirm. Click 'sure' to confirm.

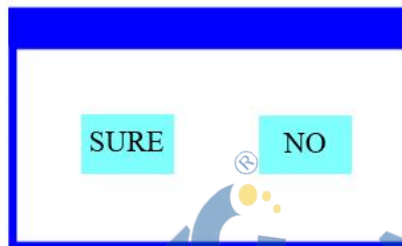


Figure 5 Dialog of confirm

4. Sub Menu (Parameter)



Figure 6-1 Address setting



Figure 6-2 Run Settings

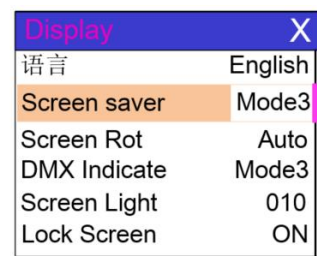


Figure 6-3 Display Settings

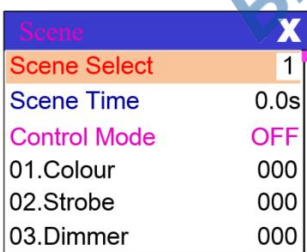


Figure 6-4 Scene Settings

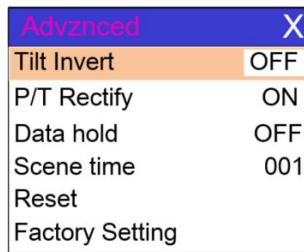


Figure 6-5 Advanced setting

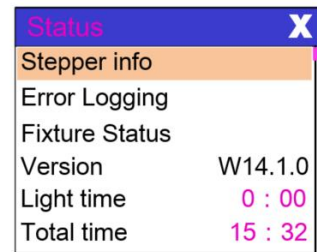


Figure 6-6 Status Settings

Figure 6 Diagram of the Parameter menu

5. Anti-false touch operation of key

If the product chooses the operation mode of the touch button, because the touch button is non-mechanical pressing (capacitive induction mode), in order to prevent accidental False touch, the operation menu mode or data of the fixture equipment will be accidentally changed. The product has added the anti-accidental button of the operation menu to unlock the confirmation page. You need to enter the menu to modify the mode or data of the fixture , and you can click the

corresponding button in turn according to the prompts on the display.

- After a period of time, the display screen will enter the button anti touch locking interface, There are two types of screens (please select the interface that matches the product you hold),as shown in Figure 7 below.

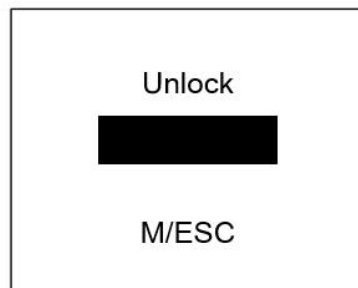


Figure 7-1

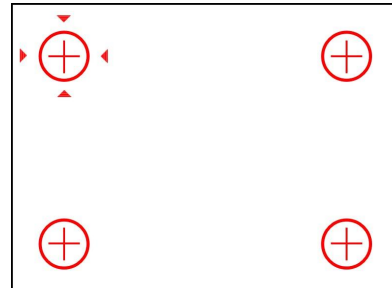


Figure7-2

- For the interface shown in Figure 7-1, press "ESC", "ENTER", "UP", and "DOWN" corresponding to the text that appears at the bottom of the screen to unlock it.
- For the interface shown in Figure 7-2, if you press a button when prompted, the red icon of the corresponding button will turn black. After that, the red logo will move to the next button position, after pressing the four corresponding buttons in order, you can exit the anti touch locking interface. If the corresponding position button icon is still red after pressing the key, it means that the wrong button was pressed.
- After power-on, when you edit the fixture parameters, it will trigger to enter the anti touch locking interface. If you just browse the parameters, it won't trigger entry; When the "lock screen" function is turned on, after not operating for a period of time, the anti touch locking interface will be entered when editing the fixture parameters; When the "lock screen" function is turned off, it only enters the anti touch locking interface when editing the fixture parameters after power-on. When you unlock the anti touch locking interface, you will not enter again during the current power-on cycle.
- In order to prevent the "lock screen" function from being turned off due to false touch. When the "lock screen" function is turned on, after pressing the "ENTER" button for the "lock screen" option, the anti touch locking interface will be entered, which will prompt that the "lock screen" function will be turned off; And when the "lock screen" function is turned off, you can turn on the function directly.

3. Operation and parameter instruction

Click item of main menu, enter corresponding sub menu shown in Figure 6, In main menu, click 1/6 function button into corresponding parameter menu.

1. DMX Address setting

Enter page show in Figure6-1, 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 " Prev " 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 address value, 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 one buttons:

- Channel mode:: you can choose different channel modes by cycle.

2. Fixture operating mode setting

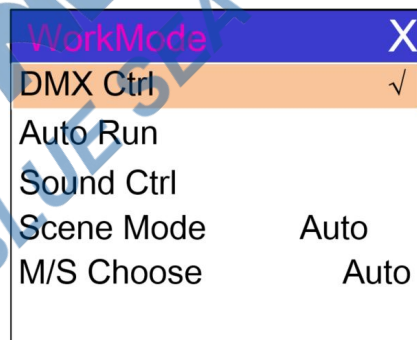


Figure 6-2

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

DMX Ctrl	DMX mode, receive DMX signal, RDM signal	
Auto Run	Fixture run automatically according to built-in programs	
Sound Ctrl	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	
Scene Mode 01	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
M/S Choose	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	fixture 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).

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.

3. Set display

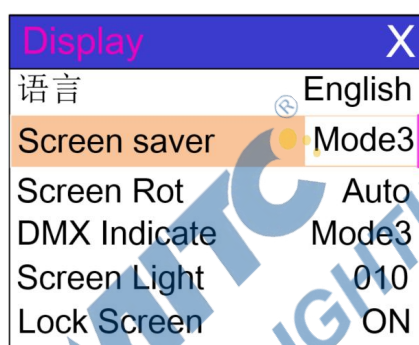


Figure 6-3

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

Language	display language settings	
	English	English display
	Chinese	Chinese display
Screen saver	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.
Screen Rot	Set the display direction of the screen.	
	OFF	No reverse display
	ON	Reverse display
DMX Indicate	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.
Screen Light	Set the screen backlight for 10 seconds without operation	
	1~10	10
Lock Screen	Set whether to open the anti touch locking interface.	
	OFF	Only after power-on,editing the fixture parameters will enter the anti touch locking interface once.
	ON	After a period of no operation, editing the fixture parameters will enter the anti touch locking interface.

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.

Scene		X
Scene Select	1	
Scene Time	0.0s	
Control Mode	OFF	
01.Colour	000	
02.Strobe	000	
03.Dimmer	000	

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

Scene Select	Select the current operation scenario.	
	1~10	The 10 scenes sets the format
Scene Time	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
Control Mode	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
1. PAN	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
.....	0-255	

.....	0-255	fixture.
N. Function	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

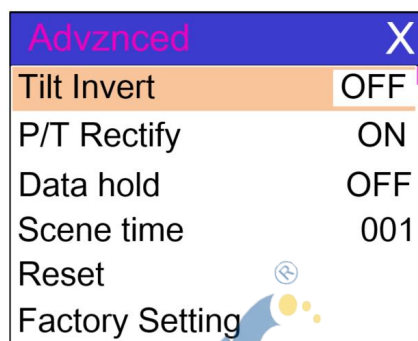


Figure 6-5

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

ADVANCED SETTING

Tilt Invert	Set the rotation direction of TILT	
	OFF	
	ON	
P/T Rectify	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.
Data hold	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.
	NO	No signal, keep the last frame DMX data output.
Scene Time (multiple)	Work with the scene time to determine the scene retention time	
	1-255	Retention time = Scene time * multiple
Reset	Pop up the confirmation box, select "SURE", and reset the fixture.	
Factory Setting	Pop up the confirmation box, select "SURE", and return the lamp parameters to the factory settings.	

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.

6. Status and information

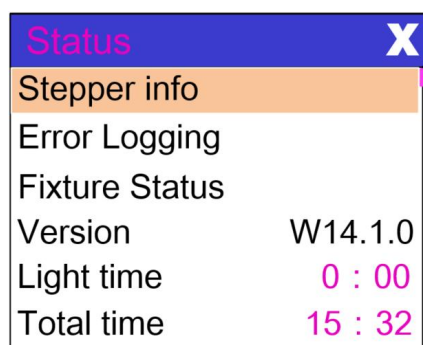


Figure 6-6

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

Stepper info	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
Error Logging	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.
Fixture status	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.
Version	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
Light time	Record the total cumulative time of light source opening, unit minute, user manual cleaning, as a reference for regular maintenance of light source time.	
Total time	The total accumulated time for recording the opening of fixture is not allowed to be removed.	



 NWITC[®]

 BLUE SEA LIGHTING

Chapter 2 Channel description

1. Channel table

Note: the channel tables of different lamps are different. The following channel tables are for reference only

This luminance 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:

CHANNEL TABLE

LIST-1	NAME	VALUE	BRIEF
[CH1]	Pan	0-255	0-540 (degree)
[CH2]	Pan Fine	0-255	0-2 (degree)
[CH3]	Tilt	0-255	0-270 (degree)
[CH4]	Tilt Fine	0-255	0-1 (degree)
[CH5]	PT Spd	0-255	Fast to slow
[CH6]	Strobe		
		0-3	Dark
		4-103	Pluse strobe slow to fast
		104-107	Open
		108-207	Fade strobe slow to fast
		208-212	Open
		213-251	Rand strobe slow to fast
		252-255	Open
[CH7]	Dimmer	0-255	0-100% dimmer
[CH8]	Cyan	0-255	
[CH9]	Magenta	0-255	
[CH10]	Yellow	0-255	
[CH11]	CTO	0-255	
[CH12]	Colour		
		0-4	White
		5-9	White+colour1
		10-14	Colour1
		15-19	Colour1+Colour2
		20-24	Colour2
		25-29	Colour2+Colour3
		30-34	Colour3
		35-39	Colour3+Colour4
		40-44	Colour4
		45-49	Colour4+Colour5
		50-54	Colour5

		55-59	Colour5+Colour6
		60-64	Colour6
		65-255	Rotate reverse (slow to fast)
[CH13]	CRI	0-255	
[CH14]	Gobo		
		0-9	White
		10-19	Gobo1
		20-29	Gobo2
		30-39	Gobo3
		40-49	Gobo4
		50-59	Gobo5
		60-69	Gobo6
		70-79	Shake slow to fast Gobo1
		80-89	Shake slow to fast Gobo2
		90-99	Shake slow to fast Gobo3
		100-109	Shake slow to fast Gobo4
		110-119	Shake slow to fast Gobo5
		120-129	Shake slow to fast Gobo6
		130-191	Rotate reverse (fast to slow)
		192-255	Rotate forward (slow to fast)
[CH15]	Rot Gobo		
		0-9	White
		10-19	Gobo1
		20-29	Gobo2
		30-39	Gobo3
		40-49	Gobo4
		50-59	Gobo5
		60-69	Gobo6
		70-79	Gobo7
		80-89	Shake slow to fast Gobo1
		90-99	Shake slow to fast Gobo2
		100-109	Shake slow to fast Gobo3
		110-119	Shake slow to fast Gobo4
		120-129	Shake slow to fast Gobo5
		130-139	Shake slow to fast Gobo6
		140-149	Shake slow to fast Gobo7
		150-190	Rotate reverse (fast to slow)
		191-192	Stop
		193-255	Rotate forward (slow to fast)

[CH16]	Gobo. Rot		
		0-127	0-360 (degree)
		128-190	Rotate reverse (fast to slow)
		191-192	Stop
		193-255	Rotate forward (slow to fast)
[CH17]	Eft Gobo	0-255	
[CH18]	Zoom	0-255	Large to small
[CH19]	Focus	0-255	Far to near
[CH20]	Focus F	0-255	
[CH21]	Prism1		
		0-127	None
		128-255	Inert prism1
[CH22]	Prism1. R		
		0-127	0-360 (degree)
		128-187	Rotate forward (fast to slow)
		188-195	Stop
		196-255	Rotate reverse (slow to fast)
[CH23]	Frost1		
		0-3	None
		4-255	Linear frost
[CH24]	CUT1	0-255	
[CH25]	CUT2	0-255	
[CH26]	CUT3	0-255	
[CH27]	CUT4	0-255	
[CH28]	CUT5	0-255	
[CH29]	CUT6	0-255	
[CH30]	CUT7	0-255	
[CH31]	CUT8	0-255	
[CH32]	Cut Rot	0-255	
[CH33]	Iris	0-255	
[CH34]	Reset		
		0-209	None
		210-215	Reset XY motor over 3 second
		216-219	None
		220-235	Reset Effect motor over 3 second
		236-239	None
		240-255	Reset fxiture over 3 second

2. Specification

Input voltage: AC100-240V, 50/60Hz

Rated power: 950W

Light source: 800W LED module

LED life: 50,000 hours

Color temperature: 8000K

Color rendering index: Standard mode Ra>75, high rendering mode Ra>90

Control mode: DMX512, RDM

Channel mode: 34CH

Display system: LCD display, Chinese and English display, 180 degree rotation

Color: 5 colors + White light

Color mixing system: independent CMY color mixing system

Color temperature adjustment: independent CTO2800-6000K linear adjustment

Prism disk: bidirectional rotating 5 prisms

Effect disk: super cool simulation of dynamic flames, gurgling water and other dynamic effects

Fixed pattern: 6 fixed pattern pieces + white circle

Rotating pattern: 7 pattern pieces (pluggable) + 1

Cutting system: 4 independent cutting pieces, each piece can be closed separately and can be rotated 180°

Atomization system

Aperture system: 5%~100% smooth adjustment

Four-in-one optical lens design: (BEAM beam mode): 2°~6°; (SPOT pattern mode): 10°~48°; (WASH dyeing mode): 0°~52° Four modes can be switched arbitrarily to realize the four-in-one functions of beam, dyeing, pattern and cutting.

Adopting international die-cast aluminum + aviation die-cast magnesium alloy high-end materials, flame retardant, high temperature resistant, folding integrated lamp hook

Dimming system: 0-100% linear adjustment

Strobe system: The maximum frequency can reach 25Hz, and random strobe and pulse strobe can be selected

Horizontal scan: 540° (16 bit precision scan)

Vertical scan: 270° (16 bit precision scan)

Protection level: IP65

Working environment: 0-45°C

Product size: 42*28*68 (cm)

Product net weight: 26.7kgs

3. Size

