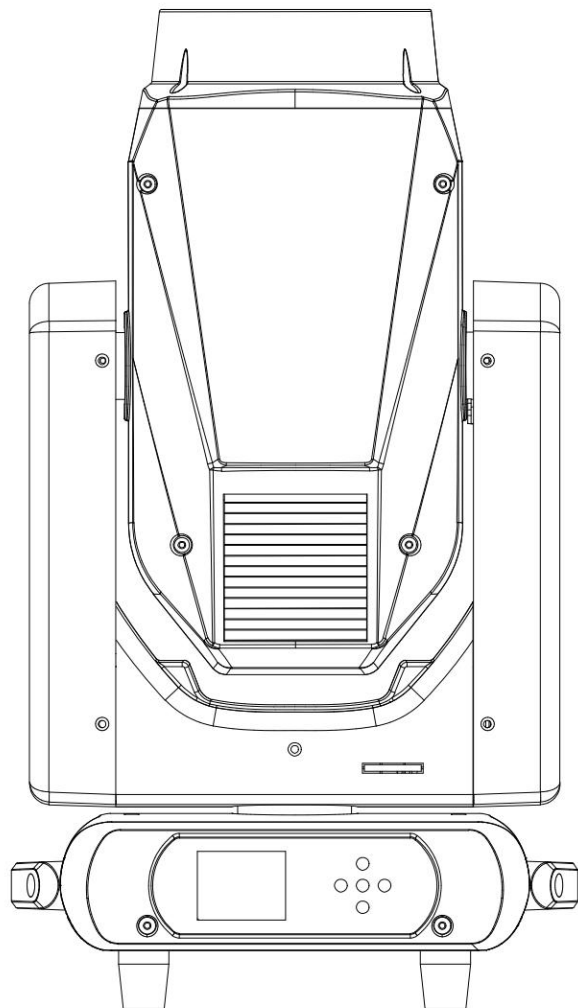


BSW 380 Mini



USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS

Thank you for your patronage!

We are confident that our excellent products and service can satisfy you.

For your own safety, please read this user manual carefully before installing the device.

In order to install, operate, and maintain the lighting safety correctly.

We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



CAUTION!

Keep this device away from rain and moisture!



CAUTION!

Unplug mains lead before device's installation, cleaning and maintenance!

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow carefully the instructions of this manual

INTRODUCTION

Thank you for having chosen this professional moving head.

You will see you have acquired a powerful and versatile device.

Unpack the device. Inside the carton box you should find:

1. One power in cable
2. One 3 Pin DMX cable(5 Pin optional)
3. Two mounted brackets
4. One safety rope
5. One English user manual

(Flight case, Clamps are optional, please contact your dealer)

Please check carefully that there is no damage caused by transportation. Should there be any questions, please consult your dealer and don't install this device.

GENERAL GUIDELINES

This device is a lighting effect for a professional use on stages, TV, in discotheques, theaters, etc., The device was designed for indoor use only.

This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in 6th page of this manual.

Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.

Do not shake the device. Avoid brute force when installing or operating the device.

While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output from the projector and the illuminated surface must be more than 0,5 meter.

If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Please use the original packaging if the device is to be transported.

For safety reasons, please be aware that all modifications on the device are forbidden. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, crash, etc.

SAFETY INSTRUCTIONS



CAUTION!

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

1. In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degrees.
2. Always mount this unit in safe and stable matter.

The qualified professionals are allowed to carry out the lamp installation, operation and maintenance, but they must guarantee to operate in strict accordance with the instructions referred to.

▲ Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperatures.

This device falls under protection-class I . Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord. During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to

avoid a hazard.



CAUTION!

Never touch the device during operation!
The housing may heat up!



CAUTION!

Never look directly into the light source,
As sensitive persons may suffer an epileptic shock.

Please be aware that damages caused by manual modifications to be the device are not subject to warranty. Keep away from children and non-professionals.

CLEANING AND MAINTENANCE

1. To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
2. Do not spill water or other liquids into or on to your unit.
3. During long periods of non-use, disconnect the unit's main power.
4. It should be installed in a well-ventilated place, at a distance of 50 centimeters or more with the walls. At the same time, please check if the fan and ventilation holes are unobstructed.

The following points have to be considered during the inspection

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing. Fixations and installations spots(ceiling, suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION!

Disconnect from mains before starting maintenance operation!

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents !

FEATURES

The Mini BSW 3in1 is an advanced hybrid light, 16.8kg only, uses 4 combined groups lens to be a very powerful beam light, the light beam is sharp and the minimum beam angle is just 2 degree.

The narrow and dense light beam remains parallel even at very long distance. It is also a professional high power spotlight with a zoom from 2° to 40°, rotating gobos and fixed gobos, color wheel, 2 prisms(16+80 faccetl) and smooth, fast and quiet movement.

By using the separate frost filter in zoom mode, it's a nice wash light too.

With Osram Platinum 371W long life bulb.

Modular design for the easier repairing and maintenance.

It is a versatile fixture and can be used in any situation.

TECHNICAL PARAMETERS

POWER SUPPLY

AC100-250V, 50/60HZ

Power consumption: 450W

OPTIC

Light source: Osram Sirius HRI 371W+

Color Temperature: 7000K, bulb Life: 3000hrs

Beam angle: 2-40 degree

Electronic focusing

COLOR SYSTEM

1 color wheels with 14 color filters + white with CTO and CTB

Half color and continuing color, Pre-set Macros

GOBOS

1 wheel with 8 dichroic and interchangeable glass rotating gobos

1 wheel with 13+1 fixed gobos (6 glass+7 metal)

EFFECTS SECTION

2 indexable and interchangeable rotating prisms(16 + 80 facet)

Prisms can be overlaid

2 to 40 degree Zooming

Independent frost filter

0-100% linear dimmer

Adjustable speed strobe effect with strobe macro

PAN/TILT MOVEMENT

Angle: Pan 540°, Tilt 270°, 16 bit

Fine resolution

Pan/Tilt three-phase motor driving

Automatic repositioning of Pan and Tilt after accidental movement

CONTROL AND PROGRAMMING

LED screen

DMX Channel: 17/24

Auto test function from MENU

DMX Signal connection: 5 or 3 pin XLR input and output

Powercon connect: Input and output

ELECTRONICS

Self-charging battery(optional) MENU edit available without main power connection

ON/OFF lamp control from light desk

Electronic monitoring with status error

BODY

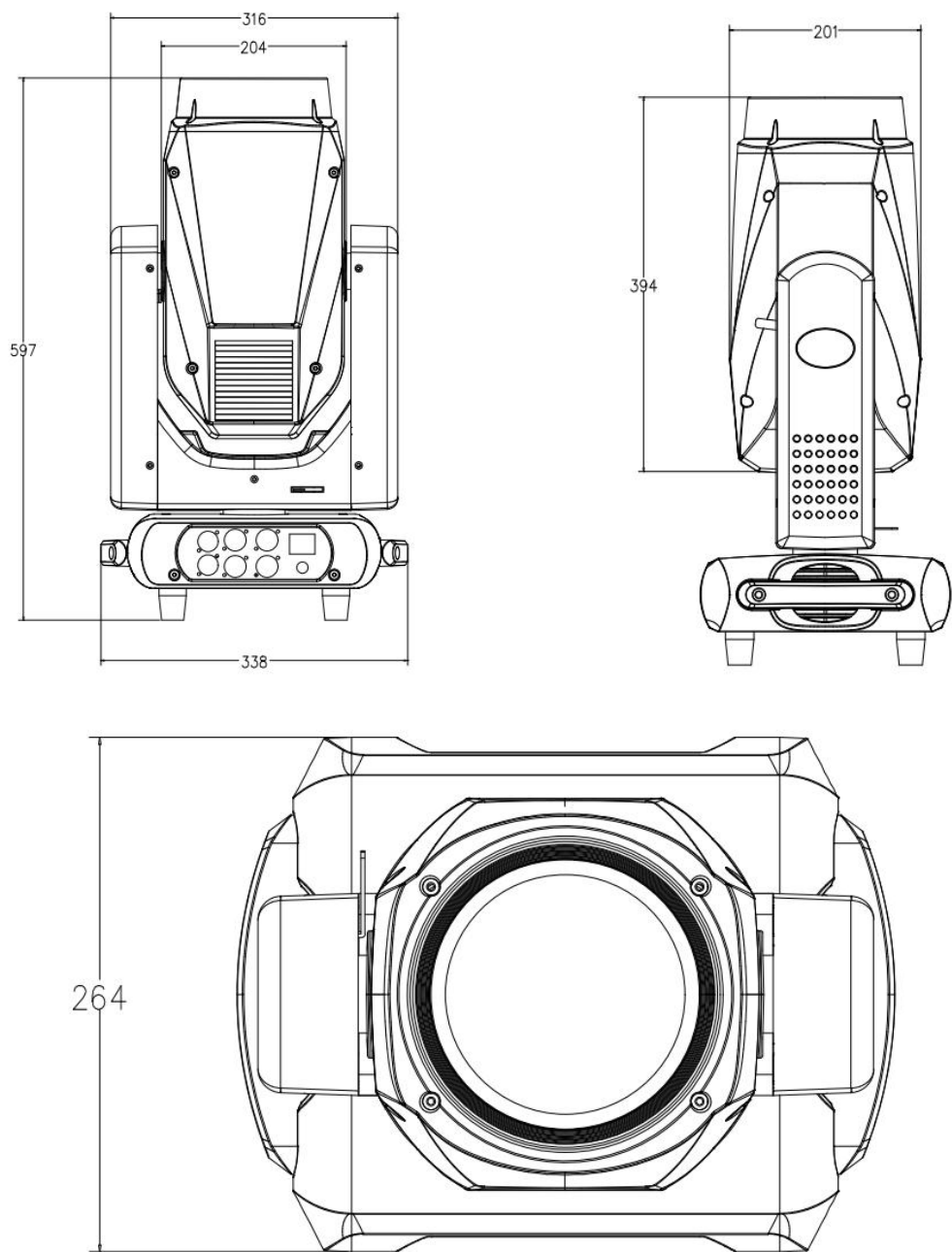
Smart cooling system monitoring: Wind guidance to the module in high temperature

Fixture weight: 16.8kg

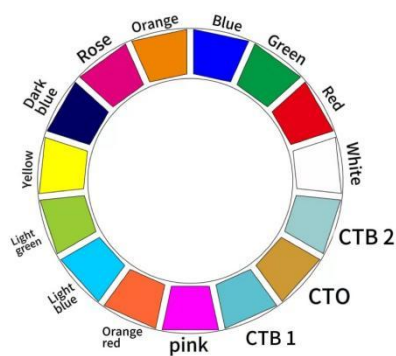
Fixture size: 597*338*264mm

Gobo size: 14.3*8mm

SIZE DRAWING



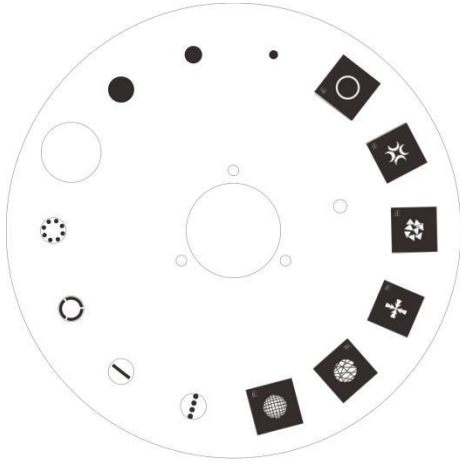
COLOR WHEEL



ROTATING GOBO WHEEL



FIXED GOBO WHEEL



MENU FUNCTION

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.

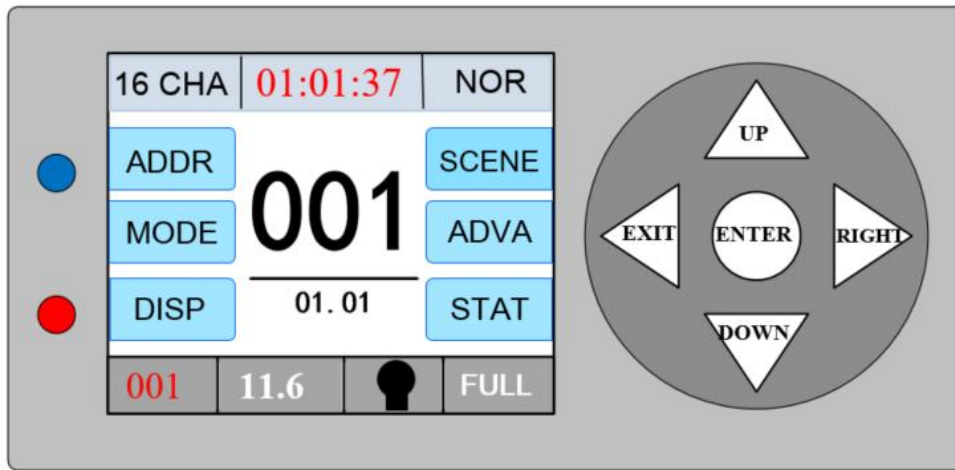


Figure 1-1 Diagram of the Five-buttons display panel

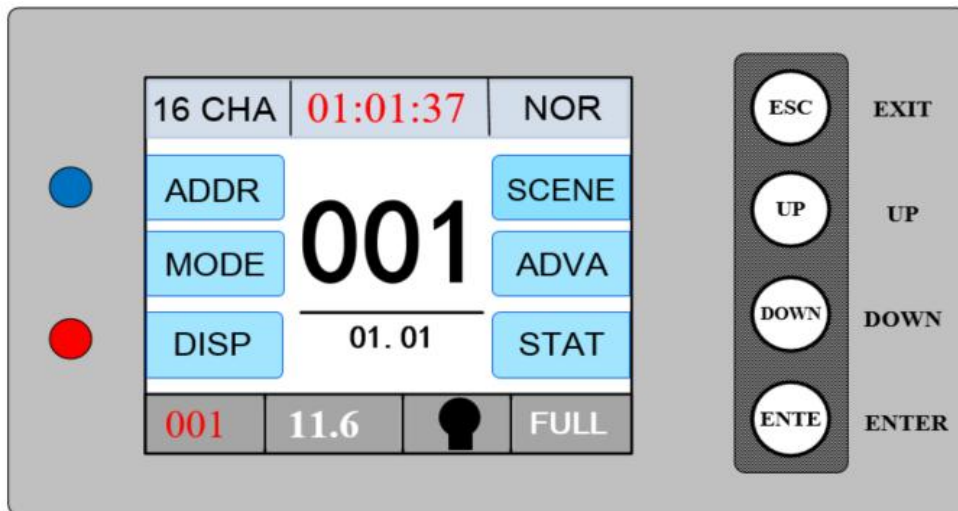


Figure 1-2 Diagram of the Four-buttons display panel

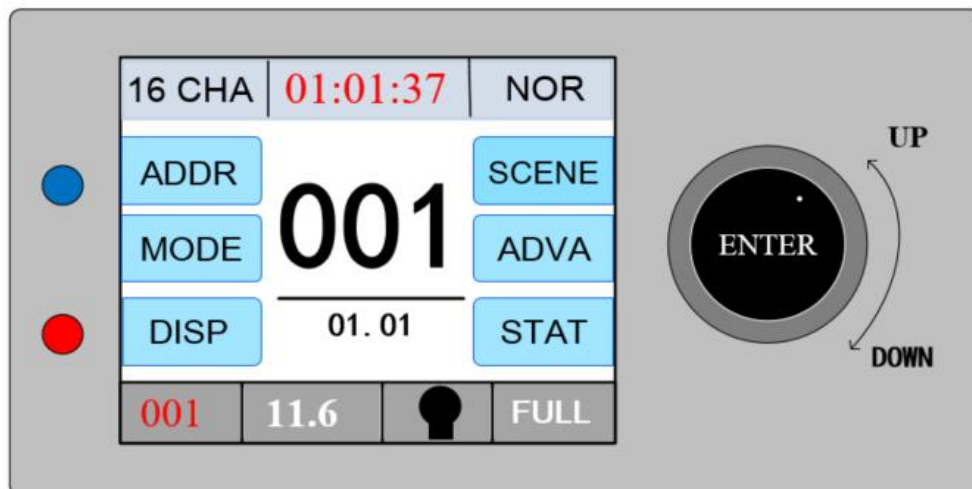


Figure 1-3 Panel diagram

Operation

1. Operate fixture with knob or button

- The left area is the display area, the right area is the input area, you can use the key or knob to control the cursor to select the item that needs to be set or viewed, and press the "ENTE"

button to complete the operation.

- For the knob shown in Figure 3-3, the cursor can be controlled up or down by rotating in different directions, and pressing the knob can confirm it. If you want to go back, turn the knob to move the cursor to the back button 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.

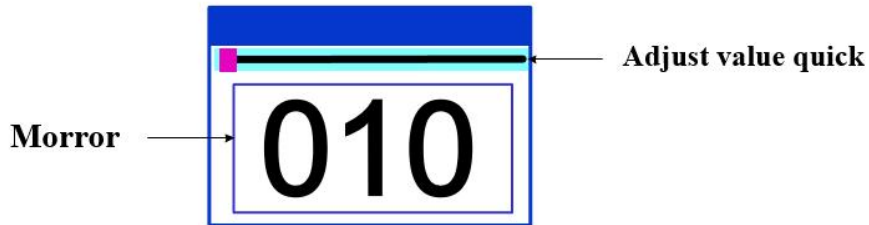


Figure 2 Dialog of value setting

- **Modify value:** The desired value can be set by pressing the "Up" and "Down" buttons or by turning the knob.
- **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 chick corresponding item, the setting will been saved right now.
- When the parameter is a key item, chick corresponding item, a dialog shown in Figure 5 will been popup ask for the confirm. Chick 'sure' to confirm.

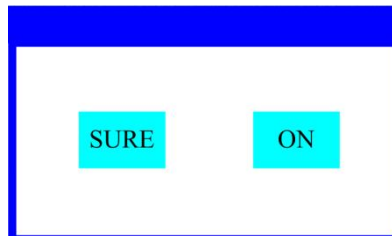


Figure 3 Dialog of confirm

4. Sub Menu (Parameter)



Figure 6-1 Address setting

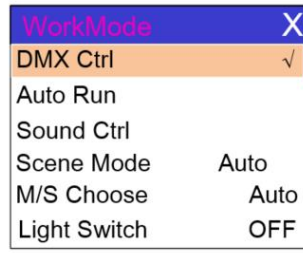


Figure 6-2 Run Settings

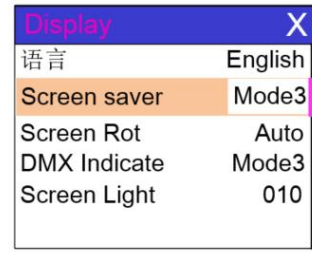


Figure 6-3 Display Settings

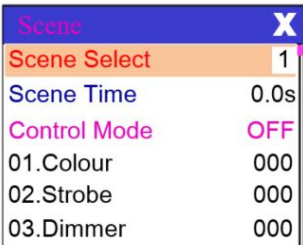


Figure 6-4 Scene Settings

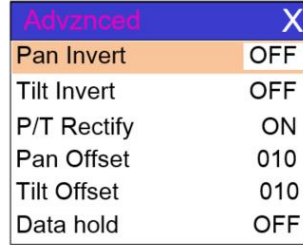


Figure 6-5 Advanced setting

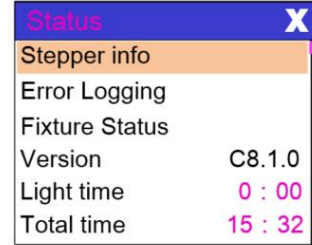


Figure 6-6 Status Settings

Figure 4 Parameter menu

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 4-1

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

2. Fixture operating mode setting

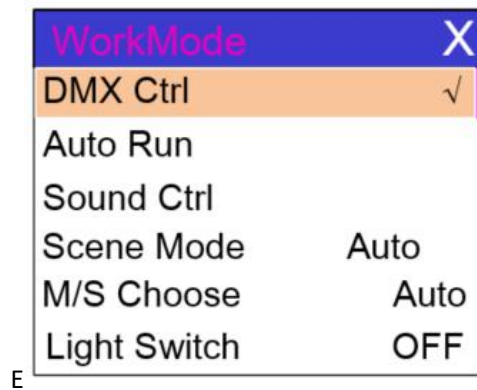


Figure 4-2

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).
Light switch	(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

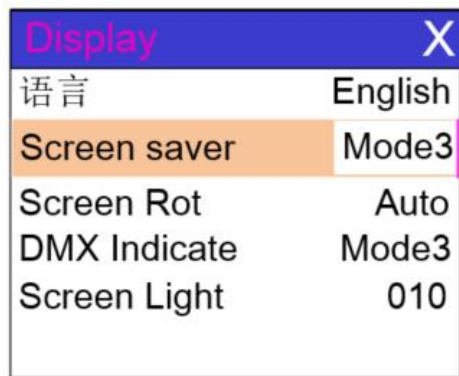


Figure 4-3

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

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,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 4-4

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 fixture.
.....	0-255	
.....	0-255	
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

Advznced X	
Pan Invert	OFF
Tilt Invert	OFF
P/T Rectify	ON
Pan Offset	010
Tilt Offset	010
Data hold	OFF

Figure 4-5

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

ADVANCED SETTING

Pan Invert	Set the rotation direction of PAN	
	OFF	
	ON	
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.
Pan Offset	Setting the zero point of the PAN of the fixture	
	4-150	
Tilt Offset	Setting the zero point of the TILT of the fixture	
	4-48	
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
Lamp mode	(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.
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 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

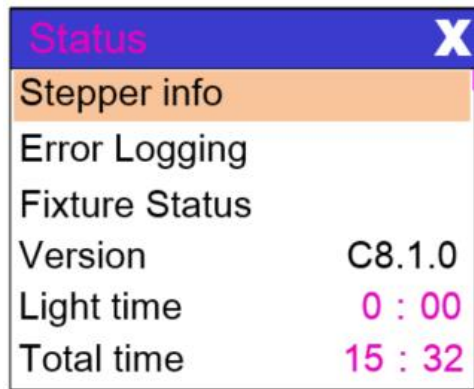


Figure 4-6

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	Displays the temperature of the current display panel or the

	Temperature	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.	

CHANNEL LIST

LIST-1	LIST-2	FUNCTION	VALUE	DESCRIPTION
[CH1]	[CH1]	Pan	0-255	0-540(degree)
[CH2]		Pan Fine	0-255	0-2(degree)
[CH3]	[CH2]	Tilt	0-255	0-270(degree)
[CH4]		Tilt Fine	0-255	0-1(degree)
[CH5]	[CH3]	PT Spd	0-255	Fast to slow
[CH6]	[CH4]	Reset		
			0-99	None
			100-105	Turn off lamp over 3 second
			106-199	None
			200-205	Turn on over 3 second
			206-209	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 fixture over 3 second
[CH7]	[CH5]	Colour		
			0-129	Linear colour
			130-133	Colour1
			134-137	Colour2
			138-141	Colour3
			142-146	Colour4
			147-150	Colour5
			151-154	Colour6
			155-159	Colour7
			160-163	Colour8
			164-167	Colour9
			168-171	Colour10
			172-176	Colour11
			177-180	Colour12
			181-184	Colour13
			185-189	Colour14
			190-220	Rotate forward (fast to slow)
			221-224	Stop
			225-255	Rotate reverse (slow to fast)
[CH8]		Colour F	0-255	
[CH9]	[CH6]	Gobo		
			0-3	White
			4-9	Gobo1
			10-15	Gobo2
			16-21	Gobo3
			22-27	Gobo4
			28-33	Gobo5
			34-39	Gobo6
			40-45	Gobo7
			46-51	Gobo8
			52-57	Gobo9
			58-63	Gobo10
			64-69	Gobo11
			70-75	Gobo12
			76-87	Gobo13
			88-95	Shake slow to fast Gobo1
			96-103	Shake slow to fast Gobo2
			104-111	Shake slow to fast Gobo3
			112-119	Shake slow to fast Gobo4
			120-127	Shake slow to fast Gobo5
			128-135	Shake slow to fast Gobo6
			136-143	Shake slow to fast Gobo7

			144-151	Shake slow to fast Gobo8
			152-159	Shake slow to fast Gobo9
			160-167	Shake slow to fast Gobo10
			168-175	Shake slow to fast Gobo11
			176-183	Shake slow to fast Gobo12
			184-199	Shake slow to fast white
			200-201	White
			202-227	Rotate reverse (fast to slow)
			228-229	Stop
			230-255	Rotate forward (slow to fast)
[CH10]	[CH7]	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	Gobo8
			90-99	Shake slow to fast Gobo1
			100-109	Shake slow to fast Gobo2
			110-119	Shake slow to fast Gobo3
			120-129	Shake slow to fast Gobo4
			130-139	Shake slow to fast Gobo5
			140-149	Shake slow to fast Gobo6
			150-159	Shake slow to fast Gobo7
			160-169	Shake slow to fast Gobo8
			170-179	Shake slow to fast Gobo9
			180-215	Rotate forward (fast to slow)
			216-255	Rotate reverse (slow to fast)
[CH11]	[CH8]	Gobo.Rot		
			0-127	0-360(degree)
			128-190	Rotate reverse (fast to slow)
			191-192	Stop
			193-255	Rotate forward (slow to fast)
[CH12]		Gobo.R F	0-255	
[CH13]	[CH9]	Prism1		
			0-63	None
			64-127	Inert prism1
			128-191	Insert prism2
			192-255	Prism1+prism2
[CH14]	[CH10]	Prism1.R		
			0-127	0-360(degree)
			128-187	Rotate forward (fast to slow)
			188-195	Stop

			196-255	Rotate reverse (slow to fast)
[CH15]	[CH11]	Prism2.R		
			0-127	0-360(degree)
			128-187	Rotate forward (fast to slow)
			188-195	Stop
			196-255	Rotate reverse (slow to fast)
[CH16]	[CH12]	Frost		
			0-127	None
			128-255	Insert frost
[CH17]	[CH13]	Zoom	0-255	Large to small
[CH18]		Zoom F	0-255	
[CH19]	[CH14]	Focus	0-255	Far to near
[CH20]		Focus F	0-255	
[CH21]	[CH15]	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
[CH22]	[CH16]	Dimmer	0-255	0-100% dimmer
[CH23]		Dimmer Spd	0-255	
[CH24]	[CH17]	Color1	0-255	

REMARK

The product has perfect performance and integrity packing. All users should be strictly comply with the warning

and operating instructions as stated. Or we aren't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.

Thank you again for your patronage!

We will be offering sincere service as always, wish you have a good lighting journey!

Innovation, Quality, Performance