LED250W Beam Spot Wash 3 in 1 with 2 Circles of Fill light

USER MANUAL

(TFT DISPLAY)



CONTENTS

Chapter 1 Installation and attention	1
1. Maintenance	2
2. Statement	2
3. Safety Precaution	2
4. Cable connection (DMX)	2
5. Rigging (Optional)	3
6. RDM Note	4
Chapter 2 Panel operation	5
1. Brief	5
2. Operation	5
1. Operate fixture with touch knob or button	5
2. Parameter value setting	6
3. Boolean parameter setting	6
4. Sub Menu (Parameter)	7
3. Operation and parameter instruction	7
1. DMX Address setting	7
2. Fixture operating mode setting	8
3. Set display	9
4. Scene	9
5. Set light run parameter	11
6. Status and information	12
Chapter 3 Channel description	14
1 Channel table	14

Voltage: AC100-240V 50/60HZ

◆ Total power: 350W

◆ Light source: a single high-brightness 250W LED lamp bead

♦ Channel: 24CH

◆ Rotating pattern plate: can rotate the pattern 7 plus white light, each pattern can be rotated separately, can be customized

◆ Fixed pattern: 8 patterns plus white light

◆ Color plate: 9 colors plus white light

◆ Double prism: four square mirror + six row mirror, can be superimposed

◆ Auxiliary light effect: two circles of 51 5050 lamp beads, can walk, horse effect

◆ Atomization: with atomization effect

• Focusing: electronic single slider focusing, more smooth, no delay.

◆ Dimming: 0-100% linear dimming

◆ Aperture: Zoom out function Angle: 9-30 degrees.

◆ X axis: 540 degrees, Y axis 270 degrees

◆ Shell: high temperature and flame retardant plastic

◆ Applicable places: banquet hall, multi-function hall, party room

◆ Size: 34*24*57CM

♦ Weight: 13.5KG

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. 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.

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 60degress.
- Always mount 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±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, 1200hm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. 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 1200hm (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 does not represent the real appearance 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.

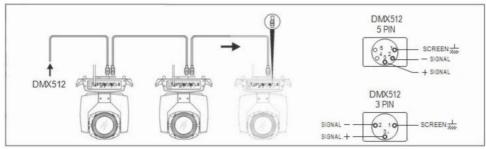


Figure 1 Diagram of the DMX Cable connection

5. Rigging (Optional)

As shown in Figure 2 (the fixture in the figure is an example picture and does not represent the real appearance 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 is 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.

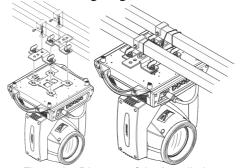


Figure 2 Diagram of the Installation

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 RMD 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 been search by RDM host, first check the signal amplifier, and then check whether the signal line 2, 3 lines have had contact

Chapter 2 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.

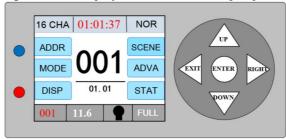


Figure 3-1 Diagram of the Five-buttons display panel

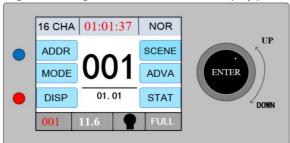


Figure 3-2 Diagram of the knob display panel

2. Operation

1. Operate fixture with touch 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 3-2, 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 been modified, the dialog shown in Figure 4 will popup.

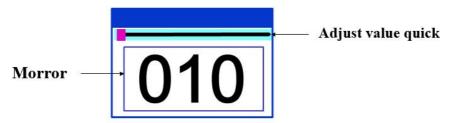


Figure 4 Dialog of value setting

- **Modify value:** The desired value can be set by pressing the "Up" and "Down" buttons 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 5 Dialog of confirm

4. Sub Menu (Parameter)



Figure 6-1 Address setting



Figure 6-2 Run Settings



Figure 6-3 Display Settings

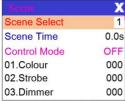


Figure 6-4 Scene Settings



Figure 6-5 Advanced setting

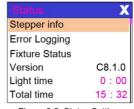


Figure 6-6 Status Settings

Figure 6 Diagram of the Parameter menu

3. Operation and parameter instruction

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

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 "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

		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		
	runs in a	set scene, which supports most of the custom editing of 10 scenes.	
Scene	1~10	outputs the specified scene	
Mode 01	Auto	Automatically loops the output scene in the set scene time (non-zero) order, and the scene with time 0 automatically ignore	
		and slave selection, non-DMX mode takes effect, select the mode of data fixture detect DMX cable state automatic switch output, prevent data	
M/S Choose	Master fixture runs built-in program. If DMX has no signal, it output (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).	
	(Lamp light source) pop-up confirmation dialog box, select "SURE" to confirm the		
Lamp	current o	operation, turn on or off the lamp, switch time interval limited to 30 seconds	
switch	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

	display language settings		
Language	English	English display	
	Chinese	Chinese display	
	Set screen 30 seconds without operation, the screen's display content or method.		
	OFF	Keep the last operation page	
	Mode1	Black	
Screen	Mode2	Black screen, showing the address code of the current fixture in the	
saver	Modez	lower left corner.	
	Mode3	Display trademark information, address code and operation mode.	
	Mode4	Display trademark information, address code and operation mode, which	
	Mode4	lasts for 30 seconds ,black screen.	
Screen	Set the display direction of the screen.		
Rot	OFF	No reverse display	
Kot	ON	Reverse display	
	Set the indica	tion mode of DMX signal indicator.	
DMX	Model When signal is bright, no signal is off.		
Indicate	Mode2	When signal is off, no signal is bright.	
	Mode3	When signal is flash, no signal is off.	
Screen	Set the screen	the screen backlight for 10 seconds without operation	
Light	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.

Scene	Х
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 curre	nt operation scenario. The 10 scenes sets the format		
Scelle Select	1~10			
	Sets the retention	on time of the current scene when it is automatic, the final time is		
Scene Time	determined by t	he scene time multiplier, unit in 0.1 seconds.		
Scene Time	0	The current scene is not output in automatic scene output.		
	1-255	01s-25.5s		
	Choose whether to use the console to manipulate the settings data			
Control	OFF	It is not possible to control the console and set the data directly from the current interface		
Mode	ON	Using console control, the console data comes first when setting, and the setting is invalid in the current interface		
1. PAN	0-255			
•••••	0-255	Set up the data of each channel, and the contents and order of the		
•••••	0-255	display are one-to-one correspondence with the channel list of fixture.		
N. Function	0-255	Tixture.		

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

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

	Sat the rotat	ion direction of PAN		
D T		ION GIRCCION OF FAIN		
Pan Invert	OFF			
	ON			
	Set the rotation direction of TILT			
Tilt Invert	OFF			
	ON			
	Setting up f	ixture to detect XY lost step and correct		
D/T D 4°C	OFF	Uncorrected position after out of step		
P/T Rectify	ON	After losing step, the position is automatically corrected and the out of step fault is recorded.		
D. O.CC.	Setting the	zero point of the PAN of the fixture		
Pan Offset	4-150			
T14 Off4	Setting the	zero point of the TILT of the fixture		
Tilt Offset 4-48				
	When the fixture is not equipped with DMX signal, the output state of the fixture			
D (1 11	OFF	No signal, so the motor and light source return to the position and state		
Data hold	OFF	when reset is completed.		
	NO	No signal, keep the last frame DMX data output.		
Scene Time	Work with the scene time to determine the scene retention time			
(multiple)	1-255	Retention time = Scene time * multiple		
	(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.		
Lamp	After	Reset the fixture after 3 seconds when power-on, and turn on the lamp		
mode	reset	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.		
	Pop up the confirmation box, select "SURE", and return the lamp parameters to the			
Factory	factory settings.			
Setting	lactory setti	ngs.		

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

Status	Х
Stepper info	
Error Logging	
Fixture Status	
Version	C8.1.0
Light time	0:00
Total time	15:32

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

Display information status of all motors and signals in fixture. 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, 1 indicating that the motor is in the correction position point					
Hall		Display information			
Status Display motor reset status					
Status Display motor reset status		Hall	the motor leaves the correction position point, 1 indicating that the		
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 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 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. Displays the critical state data of the current fixture for reference. Communication prec and lanterns The number of erroneous frames was detected after power on, and	Stepper		motor is in the correction position point		
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Fixture status Communication 0~100%, Communication quality of internal data link of lamps and lanterns The number of erroneous frames was detected after power on, and		Fan error	The main fan is not working properly.		
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status prec and lanterns From Cut The number of erroneous frames was detected after power on, and	Firtumo	Communication	0~100%, Communication quality of internal data link of lamps		
Error Cnt The number of erroneous frames was detected after power on, and		prec	and lanterns		
the total number of erroneous frames was detected.	Status	Error Cnt			
		Enoi Cit	the total number of erroneous frames was detected.		

	Light	Show the temperature of the current light source, "" means no		
	Temperature	detection.		
	Panel	Displays the temperature of the current display panel or the		
	Temperature	ambient temperature.		
	Sensor1	Display the ambient temperature of the motherboard temperature		
	Temperature	or the motherboard installation position.		
	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		
Version		of RDM.		
	Model The type of fixture is the same as the model information of RD 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			
Light time	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.			
Total time				

Chapter 3 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 Pan	0-255	BRIEF 0-540(degree)
[CH2]	Pan Fine	0-255	0-2(degree)
[CH3]	Tilt	0-255	0-2(degree)
[CH4]	Tilt Fine	0-255	0-1(degree)
[CH5]	PT Spd	0-255	Fast to slow
[CH6]	Strobe	0-233	1 ast to slow
[CHO]	Strobe	0-3	Dark
		4-127	Pluse strobe slow to fast
		128-191	Fade strobe slow to fast
		192-251	Rand strobe slow to fast
		252-255	Open
[CH7]	Dimmer	0-255	0-100% dimmer
[CH8]	Colour	0 233	0 10070 diffinites
[CHO]	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
		65-69	Colour6+Colour7
		70-74	Colour7
		75-79	Colour7+Colour8
		80-84	Colour8
		85-89	Colour8+Colour9
		90-94	Colour9
		95-99	Colour9+Colour10
		100-180	Rotate forward (fast to slow)
		181-185	Stop
		186-255	Rotate reverse (slow to fast)
[CH9]	Gobo		
1		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	Gobo8
		100-109	Shake slow to fast white
		110-119	Shake slow to fast Gobo1
		120-129	Shake slow to fast Gobo2
		130-139	Shake slow to fast Gobo3
		140-149	Shake slow to fast Gobo4
		150-159	Shake slow to fast Gobo5
		160-169	Shake slow to fast Gobo6
		170-179	Shake slow to fast Gobo7
		180-189	Shake slow to fast Gobo8
		190-223	Rotate reverse (fast to slow)
		224-255	Rotate forward (slow to fast)
[CH10]	Rot Gobo		Trouble 101 Ward (010 W to 1400)
[00000]		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
		150-200	Rotate forward (fast to slow)
		201-255	Rotate reverse (slow to fast)
[CH11]	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]	Zoom	0-255	Large to small
[CH13]	Focus	0-255	Far to near
[CH14]	Focus F	0-255	
[CH15]	Prism1		
		0-127	None
		128-255	Inert prism1
[CH16]	Prism2	15	

		0-127	None
		128-255	Insert prism2
[CH17]	Prism1.R	120 233	Insert prisin2
[CIII7]	THSHIT.R	0-127	0-360(degree)
		128-187	· - ·
			Rotate forward (fast to slow)
		188-195	Stop
		196-255	Rotate reverse (slow to fast)
[CH18]	Frost		
		0-127	None
		128-255	Insert frost
[CH19]	LED.Dim	0-255	
[CH20]	LED.Str	0-255	
[CH21]	LED.Col	0-255	
[CH22]	LED.Eft	0-255	
[CH23]	LED.Spd	0-255	
[CH24]	Reset		
		0-209	None
		210-215	Reset XY motor over 3 second
		216-219	None
		220-235	Reset Effect motor over 3 second
		236-249	None
		250-255	Reset fxiture over 3 second