

280W 3NI1 BSW LED MOVE HEAD LIGHT

USER MANUAL

(TFT DISPLAY & TOUCH)



Please read over this manual before operation the light

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Chapter 1 Installation and attention

1.1 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.

1.2 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.

1.3 Safety Precaution

- In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degrees.
- 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 $\pm 10\%$, 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.

1.4 Product Instruction

- Light Source: 1 piece 280W white LED Module
- Color temperature: 7500K
- Linear motorized zoom : $7^{\circ} - 35^{\circ}$
- Focus: motorized focus
- Color wheel: 10 color + white light. Color half-color function
- Rotate Gobo wheel: 7 gobos +open, indexable & replaceable
- Static Gobo wheel: 8 gobos + white light
- Prism : 8-facet prism with indexable and rotating
- Dimmer: 0-100% dimming
- Shutter:variable strobe effect
- Display:2.4-inch TFT color display
- Pan: 540° Tilt: 270°

- Pan/Tilt Resolution: 16 bit
- Control channels: 16Chs & 20chs
- Control mode : Standard DMX512, Auto and Master/ slave mode
- Data in/out: 3-pin or 5-pin XLR
- Net weight: 14.5KG

1.5 Cable connection (DMX)

Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24AWG, 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 120Ohm (minimum 1/4 W) between terminals 2 and 3.

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.

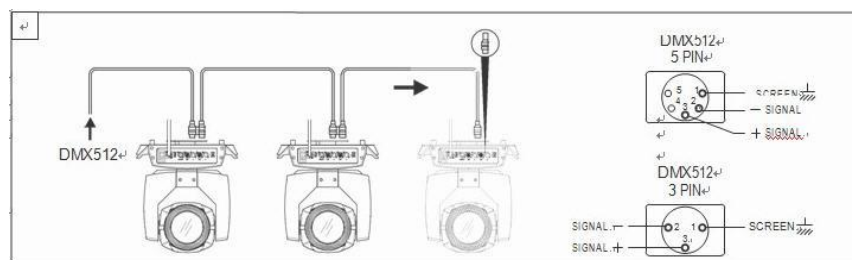


Figure 1 DMX Cable connection

1.6 Rigging (Optional)

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.

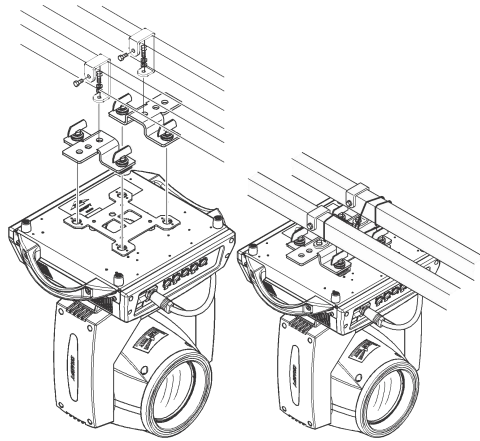


Figure 2 Installation

Chapter 2 Panel operation

2.1 Brief

The light panel diagram show as Figure 3, Left area is TFT Displayer, support touch, and right area is KEY, both of touch and KEY can operate light and setting. Display & operation just like 'Android operation system', touch the item will set or modify setting.

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



Figure 3 Panel diagram

2.2 Operation

2.2.1 Operate light with touch or KEY

- The left area is TFT Displayer and touch, chick item or value with finger will to complete operation of set light setting(parameters) or view light state.
- The area on the right hand side is 4 KEY, As auxiliary input interface, if disable touch function,, the KEYr can been choose to set the parameter.

2.2.2 Parameter value setting

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

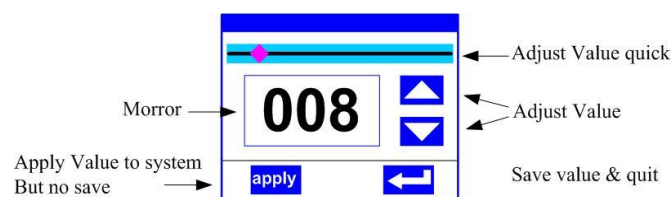


Figure 4 Dialog of value setting

- **Modify value:** 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.
- **Apply value:** When Value had been modified, Then press the bottom of 'apply' in the left corner to apply to the light, but hav't saved;
- **Save Value:** Any time, click on the lower right corner of the "OK" button, the setting will be saved into internal memory.

2.2.3 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.

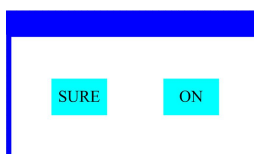


Figure 5 Dialog of confirm

2.2.4 Sub Menu (Parameter)

Click item of main menu, enter corresponding sub menu, shown in Figure 6, total 6 sub menu, includes class of parameter and status:

- **ADDRESS:** Set light DMX address.
- **WORKMOD:** Set light work mode, master or slave mode when in auto run mode.
- **DISPLAY:** Set display parameter, eg. select language.
- **TEST:** Used for test light, modify DMX channel data to test function, the corresponding function of reference channel function table.
- **ADVANCE:** Set light running parameter.
- **STATUS:** view light current status.



图 6-1地址设置



图 6-2运行设置



图 6-3显示设置



图 6-4场景设置



图 6-5高级设置



图 6-6状态信息

Figure 6 Parameter menu

2.3 Operation and parameter instruction

Via following operation, enter sub menu(parameter menu) shown in Figure 6

- In main menu, click 1/6 function button into corresponding parameter menu.
- In sub menu(page), click main item on the left side of display, can shift to corresponding sub menu(page) quickly.

2.3.1 ADDR--> Address: Set DMX Address

Click and select the "ADDR", can enter the page of DMX address setting, range from 1 to 512, the address code shouldn't is not greater than (512- channels quantity), otherwise the light will not be controlled. Following is the operation:

Enter the page of DMX address, as shown in Figure 7, click the blank area in right side of display will pop-up dialog as in Fig. 4, modify value, then click 'ENTER' to confirm and save DMX address code.

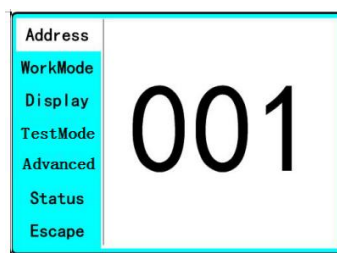


Figure 7 page of DMX Address

2.3.2 MODE--> WorkMode: Set Light work mode

Enter the page of 'WorkMode' as shown in Figure 8 and modify setting. Can set light work mode, control lamp and DMX channel mode.



Figure 8 page of work mode

- ◆ **DMX Ctrl:** Choose to set DMX Mode,
- ◆ **Auto Run:** Choose to set Auto Mode,
- ◆ **Sound Ctrl:** Choose to set Sound Mode,
- ◆ **M/S Choose:** Available just in 'AUTO RUN' or 'SOUND Ctrl' mode.
ON--> Master. (Data will be send to other slave lamp immediately.)
OFF--> Slaver.(NOT send data to other lamp via DMX Cable).(Default)
- ◆ **Light Switch:**
ON--> Turn on the light,
OFF--> Turn off the light.
- ◆ **Channel Qty:** Light support 2 DMX Channel mode: sample or extend.
Simple --> 16CH.(Default)
Expand--> 20CH(or null).

2.3.3 DISP-->DISPLAY: Set display

Light support 2 language, rotation display , Enter page as shown in Figure9 to set parameter

following:

Address	语言	English
WorkMode	Screen saver	Mode3
Display	Screen rotation	OFF
TestMode	Touch Enable	ON
Advanced	Touch Rectify	
Status		
Escape		

Figure9 page of display

◆ **Language:** English / 中文.

◆ **Screen Saver:** when panel is idle(these is no operation in 10 second), displayer will enter saver status.

OFF--> No screen saver.

Mode1--> Power-saving mode, turn off the display.

Mode2--> Displays the current address.

Mode3--> Displays the icon and the current working mode.(Default)

◆ **Screen Rotion: To turning display.**

ON--> Normal display.(Default)

OFF--> 180° turning display.

◆ **Touch enable:** Disable or enable touch function,.

ON--> Enable touch function.(Default)

OFF--> Dosable touch function.

◆ **Touch adjust:** Adjust touch function. Normally, not enter this item.

2.3.4 TEST--> TestMode

Enter the page as shown in Figure 10, Light will into test mode, in this mode, the light does not receive the data for DMX controller.:

Address	PAN	000
WorkMode	TILT	000
Display	FOCUS	000
TestMode	COLOR	000
Advanced	GOBO	000
Status	PRISM	000
Escape	FROST	000
	STROBE	000

Figure 10 page of Test

◆ **PAN:** range for 0 to 255;

◆ **TILT:** range for 0 to 255;

◆ **FOCUS:** range for 0 to 255;

◆ **COLOR:** range for 0 to 255;

◆ **GOBO:** range for 0 to 255;

◆ **PRISM:** range for 0 to 255;

◆ **FROST:** range for 0 to 255;;

◆ **STROBE:** range for 0 to 255;

2.3.5 ADVA-->Advanced: Set light run parameter

Enter the page as shown in Figure 10, set the parameter of light:

Address	PAN Inset	OFF
WorkMode	TILT Inset	OFF
Display	P/T Rectify	ON
TestMode	PAN Offset	010
	TILT Offset	010
Advanced	Lamp when	PowerON
Status	Data hold	OFF
Escape	Factory Setting	

Figure 11 page of run parameter

- ◆ **Pan Invert: Reverse PAN move**
 OFF--> Pan Normal move.(Default)
 ON--> Reverse PAN move.
- ◆ **Tilt Invert: Reverse TILT move**
 OFF--> Tilt Normal move.(Default)
 ON--> Reverse Tilt move.
- ◆ **P/T Rectify: Disable or enable position rectify function.**
 OFF--> Disable P/T rectify
 ON--> Enable P/T rectify-(Default)
- ◆ **Pan Offset:** Set PAN original position. **Default: 10**
- ◆ **Tilt Offset:** Set TILT original position. **Default: 10**
- ◆ **Lamp when:**
 PowerON--> Turn on the lamp when power on.(Default)
 RstDone--> Turn on the lamp after reset.
 Manual--> Manually turn on the lamp.
- ◆ **Data hold:**
 OFF--> When no DMX signal,return to middle position.(Default)
 ON--> When no DMX signal,stop in the final position.
- ◆ **Factory Setting:** Restore all parameter to factory setting.

2.3.6 STAT-->Status: View status

Enter the page as shown in Figure 12:

Address	Work Mode	DMX ...
WrokMode	Address	001
Display	Version	B5R. 1. 1 16n
TestMode	Elapse	000H 04M
Advanced	Tatol	00000H 04M
Status	DMX Clr SysRst	
Escape		

Figure 12 page of status

- ◆ **Work Mode:** Show the current working mode.
- ◆ **Address:** Show the current address.
- ◆ **Version:** Show the version of the lamp.
- ◆ **Elapse:** Working hours after turn on.
- ◆ **Tatol:** Cumulative hours of operation

DMX Clr

When <Data hold> set <ON>,click to clear DMX data, and make the lamp return to themiddle position.

SysRst

Click to reset.

Chapter 3 Channel description

3.1 Channel table

LIST-1	LIST-2	NAME	VALUE	BRIEF
[CH1]	[CH1]	Pan	0-255	0-540(degree)
[CH2]	[CH2]	Pan Fine	0-255	0-2(degree)
[CH3]	[CH3]	Tilt	0-255	0-270(degree)
[CH4]	[CH4]	Tilt Fine	0-255	0-1(degree)
	[CH5]	P&T Speed	0-255	Fast to slow
[CH5]	[CH6]	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
[CH6]	[CH7]	Dimmer	0-255	0-100% dimmer
	[CH8]	Dimmer Speed	0-255	
[CH7]	[CH9]	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)
	[CH10]	Colour Fine	0-255	
[CH8]	[CH11]	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	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)
[CH9]	[CH12]	Rotatic 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
			150-200	Rotate forward (fast to slow)
			201-255	Rotate reverse (slow to fast)
[CH10]	[CH13]	Gobo.Rotation		
			0-127	0-360(degree)
			128-190	Rotate reverse (fast to slow)
			191-192	Stop
			193-255	Rotate forward (slow to fast)
[CH11]	[CH14]	Prism1		
			0-127	None
			128-255	Inert prism1
[CH12]	[CH15]	Prism1.Rotation		

			0-127	0-360(degree)
			128-187	Rotate forward (fast to slow)
			188-195	Stop
			196-255	Rotate reverse (slow to fast)
[CH13]	[CH16]	Frost		
			0-127	None
			128-255	Insert frost
[CH14]	[CH17]	Zoom	0-255	Large to small
[CH15]	[CH18]	Focus	0-255	Far to near
	[CH19]	Focus Fine	0-255	
[CH16]	[CH20]	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