

User Manual of 280W Beam Moving Head light



Please read the manual carefully before installing and using the product

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 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.

4. 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 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 equipment, clamps, wiring 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.

5. Product Instruction

AC 90-260V, 50/60Hz

Power Consumption:550W

Pan movement: 540°, with pan fine Tilt movement: 270°, with tilt fine

Light source:OSRAM SIRIUS HRI 280W

Lens:2° of optical lens

Life Span:2000hours

Control Mode:DMX512, master-slave, sound activated or auto operation

RDM:Yes

DMX Channels:16CH

Auto operation:Built-in programming

Frost2°-30°

Color wheel:14color+white, with rainbow effect

GOBO wheel:13gobos+white Rainbow effect +Gobo shake

Prism :8prism+16prism CW/CCW rotation

Focus: 0-100% Motorized focus

Dimming: 0-100% Mechanical Linear dimming

Display:LCD display

Protect Rate:IP20

Housing :Flame-retardant thermoplastic

Color :Black(White is available)

Dimmer:0-100%

Strobe:0-20HZ

Power Port :Power in out DMX Port :3pin/5pin in out

6. Menu description

➤ Menu structure

Main interface	----Manual
	----Set up
	----Operating mode
	----DMX address
	----Channel mode
	----X Reverse
	----Y Reverse
	----XY exchange
	---- XY Encoder
	----DMX signal
	----Turn on bright bubble
	----The color wheel changes linearly
	----Restore default settings
	--system
	--Software version
	--Reset calibration
	--Sensor monitoring
	--system error
	--Permission settings
	--DMX monitor
	--Chinese and English switching
	--Screen rotation

➤ Settings

Options	Description	
Operating mode	DMX	Slave state: receiving DMX signal from the console or host
	Self-propelled 1	Master status: self-propelled and send DMX signal to slave
	Self-propelled 2	

	random	
	Voice control	
DMX address	1~512	Press the "OK" key to enter the editing state. At this time, the hundreds digit is selected, press the "up" and "down" keys to change the address code. Press the "OK" key again to select the ten digits for editing. Press the "OK" key again to select the ones digit to edit. Press again to exit the editing state
Channel mode	Standard 16CH	Standard 18-channel mode
X reverse	turn off	
	open	
Y reverse	turn off	
	open	
XY exchange	turn off	
	open	Exchange the channels of the XY axis (including fine-tuning)
XY encoder	open	Use encoder (optocoupler) to judge out-of-step and automatically correct position
	turn off	Correct position without using encoder (optocoupler)
DMX signal	maintain	Continue to run in the original state
	Cleared	Motor returns to position and stops running
	open	Turn off the backlight after 30 seconds of idle
screen protector	turn off	Backlight always bright
Turn on bright bubble	turn off	Reset directly after power-on, the bulb will not turn on (you need to use the menu or console to manually turn on the bulb)
	open	The bulb will light up automatically after power-on, and it will be reset only after the bulb lights up successfully
	open	The color wheel changes linearly
The color wheel changes linearly	turn off	Non-linear change of color wheel, half color change
		Press the "OK" button to see the confirmation dialog box, press the "OK" button again to restore the default settings

➤ **System information**

A layer of password is set in the "Permission Setting" option to prevent misuse by non-professionals. The default password is "Up and Down Up and Down". Press the "OK" button to verify the password。

Options	Description	
Software version		current software version
Reset calibration	X axis calibration	After entering the sub-interface, you can adjust the reset position of the X-axis, Y-axis and other motors to compensate for the error in the hardware installation. The adjustment range is -128~+127, and +0 means no adjustment.
	Y-axis calibration	
	Color calibration	
	Pattern calibration	
	Focusing calibration	
	Dimming calibration	
Sensor monitoring		Real-time monitoring of the status of various photoelectric switches and Hall sensors on the lamp
system error		System error message prompt
Permission settings	Permission duration	0-9999 hours, the maximum bright bubble time of operation will have an alarm prompt
	user password	The default password "1010", which is "up and down, up and down" can be modified
	Administrator password	
DMX monitoring		Real-time monitoring of console signals

Error message	Description
Motor reset failed, serial port error	The driver board does not respond. There is a problem with the serial communication line connecting the display board and the driver board, or there is a problem with the driver board.
X axis reset failed	X-axis photoelectric switch, or X-axis motor has a problem

Y axis reset failed	Y-axis photoelectric switch, or Y-axis motor has a problem
X axis Hall error"	There is a problem with the X-axis Hall
Y axis Hall error	Y-axis Hall has a problem
Color wheel reset failed	The color wheel Hall, or the color wheel motor has a problem
Gobo reset failed	Gobo Hall, or gobo motor has a problem
Focus reset failed	There is a problem with the focus hall or the focus motor
Prism focus reset failed	Prism focusing Hall, or the prism focusing motor has a problem
Lamp control failed	Failure to turn on or off the bulb, there is a problem with the lighter or bulb
The bright bubble time is too long, please change the bubble!	The accumulated light bubble time exceeds the maximum light bubble time set in the "Advanced" menu, prompting the user to change the gun in time. After changing the bubble, clear the light bubble time in the "advanced" menu, and restart the light bubble time.

Special Instructions

During the reset process, press and hold the touch screen for 5 seconds, or press the OK button for 5 seconds to interrupt the reset.

When powering on, press and hold the confirmation key or press and hold the touch screen to interrupt the reset process and enter the test mode.

DMX address is set to 512, back to the main interface, long press "512" on the touch screen for 5 seconds, or long press the OK button for 5 seconds, you can set "display" or "hide" LOGO.

The pattern disc and the color disc have the function of automatic magnetic detection and error correction. When installing the Hall, you need to pay attention. When the channel value is 0, even if the reset calibration is used for fine-tuning, it is best to apply the magnet, the pattern disk and the color disk reset calibration range outside ± 20 , zero point error correction The function will be invalid: if it can be magnetized, when the user finds that the gobo or color wheel of a certain lamp is out of step, push the channel value to 0, and the system will automatically reset the gobo or color wheel and correct the error.

Signal indicator:

The ERR red indicator light flashes, indicating that there is an error message, go to "Information" -> "System Error Information" to view.

DMX blue indicator light, always on means DMX signal is received, always off means no DMX signal.

The blue indicator light on the motor drive board, if it flashes quickly at 1 second intervals, it means that it has received the serial port signal sent by the display board; if it flashes slowly at 2 second intervals, it means there is no serial port signal, and the light is flashing. Used to indicate that the system is running; if the indicator light is always on or off, it means there is a problem with the motor drive board.

7.Channle(16CH)

Channel list

CH	function	value
CH1	X Pan	0-255
CH2	Y Tilt	0-255
CH3	Pan fine	0-255
CH4	Tilt fine	0-255
CH5	P/T Speed	0-255
CH6	rainbow	0-127
		128-255
CH7	Strobe	0-3
		4-103
		104-107
		108-207
		208-212
		213-251
		252-255
CH8	Dimmer	0-255
CH9	Color	0-4
		5-9
		10-14
		15-19
		20-24
		25-29
		30-34
		35-39
		40-44
		45-49
		50-54
		55-59
		60-64
		65-69
		70-74

		75-69
		80-84
		85-89
		90-94
		95-99
		100-104
		105-109
		110-114
		115-119
		120-124
		125-129
		130-134
		135-139
		130-144
		145-149
		150-200
		201-255
CH10	Gobo	0-4
		5-9
		10-14
		15-19
		20-24
		25-29
		30-34
		35-39
		40-44
		45-49
		50-54
		55-59
		60-64
		65-69
		70-125
		126-130
		131-190
		191-195
		196-200
		201-205
		206-210
		211-215
		216-220
		221-225
		226-230
		231-235

		236-240
		241-245
		246-250
		251-255
CH11	Prism 1	0-127
		128-255
CH12	Prism 2	0-127
		128-255
CH13	Prism rotating	0-127
		128-187
		188-195
		196-255
CH14	Frost	0-127
		128-255
CH15	Zoom	0-255
CH16	Reset	100-105
		200-205
		210-215
		220-235
		240-255