280W Beam Spot Wash Moving Head Lighting

User Manual

CE

Please keep this manual for future reference

Thanks for choosing 280W beam spot wash moving head light. For proper and safe use of this product, please read the users manual carefully before installing this product. This operation manual contains important installation and application information. When installing and operating the product, please strictly follow the instructions of the manual. At the same time, please keep this manual.

Our 280W beam spot wash moving head light uses a new and beautiful high temperature metal body. This product strictly follows the CE standard design and production, in line with international standards DMX512 signal protocol, can be used alone control, but also online use, with fast rotation, low noise, powerful features for small and medium-sized concerts, theaters, Studios, nightclubs and bars and other places,

This product uses a bright and stable 280W bulb. Please carefully remove the packaging, after the removal of the package to check whether the product is damaged in the transport process, and check whether the following is complete.

Beam light--------1 set

Fast lock -------Two

Manual--------1 this

Power cable--------1 pc

Signal cable--------1 pc

This product is a complete product before leaving the factory. In order to maintain the integrity of the product and ensure safe operation, the user should follow the safety precautions and warnings of this manual.

Important: Damage caused by failure to follow this instruction is not covered by the warranty. The supplier is not responsible for the resulting product.

If the product has been exposed to extreme unstable temperatures (eg after shipping), do not immediately connect the product to the product because the water droplets due to temperature changes may damage the product. Please use the product after returning to normal temperature.

This product can be used in the 90-240V voltage range, is used for indoor products. Please ensure that the use of ground voltage is not higher than the product can withstand the range! The The power plug must be plugged into a protective class I socket. Green or tea cyan conductor must be grounded.

Always check this product grade power cord. Make sure that the power cord does not fold or damage the scratches and is not connected to the other wires! Special attention is required when connecting the power cord or the associated connection. Be sure to unplug the power supply before using this product or before cleaning it.

Before using the product, please familiarize yourself with the operation function of the product. Please do not allow children or non-professionals to contact the product. Please do not shake this product. Do not use brute force when installing or operating the product. Do not let non-professionals operate the product. Most of the damage is caused by a non-professional operation. The product is not equipped with the relevant maintenance accessories. Product maintenance and repair can only be carried out by professionals!

Please do not arbitrarily change the product, otherwise it may damage the product, so the damage is not covered by the warranty. Moreover, non-professional operation may lead to short circuit, burn or electric shock, and so on.

Menu structure

Main interface ----Set up ----Running mode
----DMX address
----Channel mode
----X Reversal
----Y Reversal
----Y Reversal
---- XY Encoder
----No DMX signal
----screen protector
----Boot bright bubble
--Color wheel linear change
--Restore the default settings

--Manual

--system --Software version
--DMX Channel value monitoring
--System error record
--Total use time
--This time of use
--The total time of the bright bubble
--This time the bubble time
--advanced --Reset calibration
--Maximum bright time
--The bright bubble time is cleared
--Sensor monitoring

--Switch between Chinese and English
--The screen rotates

➢ Set up

Option	Description	
Running mode	DMX	Slave Status: Receive DMX signals from the console or host
	Self-running1	Host Status: Go and send DMX signal to slave
	Voice control	Pass the voice and send the DMX signal to the slave
DMX address	1~512	Press "OK" key to enter the editing state. At this time is selected hundred, press the "up" "down" key to change the address code. Press "OK" again to select the ten edit. Press "OK" again to select the bit edit. Press again to exit the edit state
Channel mode	24/30 CH	24/30 CH channel mode
X Reversal	turn off	
	open	
Y Reversal	turn off	
	open	
XY exchange	turn off	
	open	Exchange the axis of the XY axis (including fine tuning)
XY Encoder	open	Use the encoder(optocoupler) to determine the out of step and automatically correct the position
	turn off	Do not use the encoder(optocoupler) to correct the position
No DMX signal	maintain	Continue to run as it is
	Cleared	The motor is turned back and stopped
screen protector	open	Idle after 30 seconds off
	turn off	Backlight forever bright
Boot bright bubble	turn off	Power on the direct reset, do not light bulb (need to use the menu or console to manually bright bubble)
	open	Power on the automatic light bubble, and to wait until the light bulb was successfully lit.
Color wheel linear change	open	Color wheel linear change
	turn off	Color wheel non-linear change, half color change
Restore the default settings		Press the "OK" button to see the confirmation dialog box, press the "OK" button to restore the default settings

system information

Option	Description
Software version	current software version
DMX channel value	Thereby entering the sub-interface, displaying the channel values in values and percentages for viewing
System error record	If the red ERR indicator light is lit, indicating that the lights run error, the details can be entered into the sub-interface view. After viewing, press "Clear" to clear the error log Note: sometimes not really Hall or optocoupler installation problems, but the motor line

	reverse
Total use time	Accumulated use time (accurate to minutes)
This time of use	This time since the start of the use of time (accurate to minutes)
The total time of the bright bubble	Cumulative burst time (accurate to minutes)
This time the bubble time	This bright time (accurate to minutes)

Error message	Description
Motor reset failed, serial 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 the drive board is faulty.
X axis reset failed	X-axis photoelectric switch, or X-axis motor problem
Y axis reset failed	Y-axis photoelectric switch, or Y-axis motor problem
X axis Hall error	X-axis Hall has problems
Y axis Hall error	Y-axis Hall has problems
Color disc reset failed	Color pallet, or color plate motor problem
Pattern disk reset failed	Pattern dish Hall, or pattern disk motor problem
Focus reset failed	Focus on the hall, or the focus motor has a problem
Prism focus reset failed	Prism focus Hall, or prismatic focus motor has problem
Lamp control failed	Bright bubble or foam failure, light bulb or light bulb problems
Bright bubble time is too long, please change!	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 in the "Advanced" menu to clear the bright bubble time, bright bubble time to re-count.

Advanced

Set a password here to prevent misuse of non-professionals. The default password is "up and down". Press "OK" to verify the password.

Option	Description
Reset calibration	After entering the sub-interface, you can adjust the X-axis, Y-axis and other motor reset position to compensate for the hardware installation of the error, the adjustment range -128 ~ +127, + 0 that no adjustment.
Maximum bright time	0-9999 hours, the operation of the maximum bright bubble time the system will have alarm tips
The bright bubble time is cleared	After clearing, the light bubble time is recalculated
Sensor monitoring	Real-time monitoring lights on a variety of photoelectric switches, Hall and other sensor status

➢ Special Instructions:

- ➢ Reset the process, long press 5 seconds touch screen, or long press 5 seconds OK button, interrupt reset.
- ➢ Press and hold the Enter key while pressing the touch screen, interrupt the process and enter the test mode.
- ➢ DMX address is set to 512, back to the main interface, long press 5 seconds on the touch screen "512", or long press 5 seconds OK button, you can set the "show" or "hidden" LOGO.
- ➢ logo disk and color disc with automatic magnetic error correction function. When installing the Hall, it is important to note that when the channel value is 0, even if a fine adjustment is used for fine adjustment, it is best to reset the magnet, pattern disk and color plate. The calibration range is + -20. Function will be invalid: If you can on the magnetic, then the user found a lamp pattern disk or color disk out of step, the channel value to 0, the system will automatically reset the logo or color disc error correction.
- ➢ Signal indicator:
  - ■ ERR red light flashes, indicating that there is an error message, enter the "information" -> "system error message" view.
  - ■ DMX blue indicator light, indicating that the received DMX signal, often off that no DMX signal.

The blue indicator light on the motor drive board, if it is flashing at 1-second intervals, indicates that the serial signal sent from the display panel is received. If the signal is flashing at 2-second intervals, it indicates that there is no serial signal, Used to indicate that the system is running; if the indicator light is on or off, indicating that the motor drive board has a problem.

Product parameters:

Power: AC110-240V, 50 / 60Hz

Light source: 280W bulb

Channel mode: 24/30 channels

Horizontal scan: 540 degrees (160bit precision scan) Electronic error correction.

Vertical scan: 270 degrees (160bit precision scan) Electronic error correction.

Colour wheel: 13 dichroic filters + white

Rotating Gobo wheel: 9 rotating, indexable and replaceable "SLOT&LOCK" glass gobos + open

Static Gobo wheel: 14 gobos + open

Prism 1: 8-facet circular prism rotating in both directions at different speeds

Prism 2: 6-facet linear prism rotating in both directions at different speeds

Frost: Separate, variable

Motorized zoom and focus

Pre-programmed random strobe & pulse effects

Dimmer: 0 - 100%

Beam angle: 2.5 degrees -10 degrees

Strobe: two-piece strobe (0.5-9 times / sec)

IP grade: IP20

24/30CH DMX Channel List

24CH	30CH	Channel Function	Value	Effect
1	1	Pan	0-255	0--540°
2	2	Pan Fine	0-255	0--2.1°
3	3	Tilt	0-255	0--270°
4	4	Tilt Fine	0-255	0--1.0°
5	5	Pan/Tilt speed	0-255	Slow to fast
6	6	Power/Special functions	0-89	/
			90-99	Blackout while colour wheel moving step
			100-109	Blackout while gobo wheel moving step
			110-119	Blackout while prism moving step
			120-129	Blackout while colour wheel, gobo wheel and prism moving step
			130-139	Lamp on(stop in DMX value for at least 3 seconds)
			140-149	XY motors reset(stop in DMX value for at least 3 seconds)
			150-189	Effect motors reset(stop in DMX value for at least 3 seconds)
			200-209	Lamp reset(stop in DMX value for at least 3 seconds)
			210-229	/
			230-239	Lamp off(stop in DMX value for at least 3 seconds)
			240-255	/
7	7	Color Wheel	0-8	White(100%-10%)
			9-17	Color 1(100%-10%)
			18-26	Color 2(100%-10%)
			27-36	Color 3(100%-10%)
			37-45	Color 4(100%-10%)
			46-54	Color 5(100%-10%)
			55-63	Color 6(100%-10%)
			64-72	Color 7(100%-10%)
			73-81	Color 8(100%-10%)
			82-90	Color 9(100%-10%)
			91-100	Color 10(100%-10%)
			101-109	Color 11(100%-10%)
			110-118	Color 12(100%-10%)
			119-127	Color 13(100%-10%)
			128-129	White
			130-134	Color 1

			135-138	Color 2
			139-143	Color 3
			144-147	Color 4
			148-152	Color 5
			153-157	Color 6
			158-161	Color 7
			162-166	Color 8
			167-171	Color 9
			172-176	Color 10
			177-180	Color 11
			181-185	Color 12
			186-189	Color 13
			190-215	Forwards rainbow effect from fast to slow
			216-217	Flowing water effect stop, white
			218-243	Backwards rainbow effect from slow to fast
			244-255	Auto random colour selection from fast to slow
8	8	Colour wheel - fine positioning	0-255	Fine positioning
9	9	Effect Speed	0-255	Speed of Rot. Gobo selection from max. to min.
/	10	Frost time	0	Function is off
			1-255	Time of frost movement
/	11	Color time	0	Function is off
			1-255	Time of color wheel movement
/	12	Static gobo time	0	Function is off
			1-255	Time of static gobo wheel movement
/	13	Prism time	0	Function is off
			1-50	Time of prism movement
			1-255	Time of prism rotation
/	14	Zoom time	0	Function is off
			1-255	Time of zoom movement
/	15	Focus time	0	Function is off
			1-255	Time of focus movement
10	16	Static gobo wheel	0-3	Open/hole
			4-9	Gobo 1
			10-15	Gobo 2
			16-21	Gobo 3
			22-27	Gobo 4
			28-33	Gobo 5

			34-39	Gobo 6
			40-45	Gobo 7
			46-51	Gobo 8
			52-57	Gobo 9
			58-63	Gobo 10
			64-69	Gobo 11
			70-75	Gobo 12
			76-81	Gobo 13
			82-87	Gobo 14
			88-95	Gobo 1 shaking from slow to fast
			96-103	Gobo 2 shaking from slow to fast
			104-111	Gobo 3 shaking from slow to fast
			112-119	Gobo 4 shaking from slow to fast
			120-127	Gobo 5 shaking from slow to fast
			128-135	Gobo 6 shaking from slow to fast
			136-143	Gobo 7 shaking from slow to fast
			144-151	Gobo 8 shaking from slow to fast
			152-159	Gobo 9 shaking from slow to fast
			160-167	Gobo 10 shaking from slow to fast
			168-175	Gobo 11 shaking from slow to fast
			176-183	Gobo 12 shaking from slow to fast
			184-191	Gobo 13 shaking from slow to fast
			192-199	Gobo 14 shaking from slow to fast
			200-201	Beam
			202-221	Forwards gobo wheel rotation from fast to slow
			222-223	Gobo wheel rotation stop, white
			224-243	Backwards gobo wheel rotation from slow to fast
			244-255	Auto random gobo selection from fast to slow
11	17	Rotating gobo wheel	Rotation - set indexing on channel	
			0-4	White
			5-7	Gobo 1
			8-10	Gobo 2
			11-13	Gobo 3
			14-16	Gobo 4
			17-19	Gobo 5
			20-22	Gobo 6
			23-25	Gobo 7
			26-28	Gobo 8
			29-31	Gobo 9

			Rotation - flowing water	
			32-34	Gobo 1
			35-37	Gobo 2
			38-40	Gobo 3
			41-43	Gobo 4
			44-46	Gobo 5
			47-49	Gobo 6
			50-52	Gobo 7
			53-55	Gobo 8
			56-59	Gobo 9
			Rotation - set indexing on channel	
			60-67	Gobo 1 shaking from slow to fast
			68-75	Gobo 2 shaking from slow to fast
			76-83	Gobo 3 shaking from slow to fast
			84-91	Gobo 4 shaking from slow to fast
			92-99	Gobo 5 shaking from slow to fast
			100-107	Gobo 6 shaking from slow to fast
			108-115	Gobo 7 shaking from slow to fast
			116-123	Gobo 8 shaking from slow to fast
			124-129	Gobo 9 shaking from slow to fast
			Rotation - flowing water	
			130-137	Gobo 1 shaking from fast to slow
			138-145	Gobo 2 shaking from fast to slow
			146-153	Gobo 3 shaking from fast to slow
			154-161	Gobo 4 shaking from fast to slow
			162-169	Gobo 5 shaking from fast to slow
			170-177	Gobo 6 shaking from fast to slow
			178-185	Gobo 7 shaking from fast to slow
			186-193	Gobo 8 shaking from fast to slow
			194-199	Gobo 9 shaking from fast to slow
			200-201	Beam
			202-221	Forwards gobo wheel rotation from fast to slow
			222-223	Gobo wheel rotation stop, white
			224-243	Backwards gobo wheel rotation from slow to fast
			244-255	Auto random gobo selection from fast to slow
12	18	Rot. gobo indexing and rotation	Gobo indexing - set posotion on channel 11/16	
			0-255	Gobo indexing
			Gobo rotation - set posotion on channel 11/16r	
			0	No rotation

			1-127	Forwards gobo rotation from fast to slow
			128-129	No rotation
			130-255	Backwards gobo rotation from slow to fast
13	19	Rot. Gobo wheel - Fine	0-255	Fine
14	20	Prism	0-19	Open position (hole)
			20-49	6-facet linear rotating prism -indexing step
			50-75	6-facet linear rotating prism- rotation step
			76-105	8-facet circular rotating prism- Indexing step
			106-127	8-facet circular rotating prism-rotation
			Prism/gobo macros	
			128-135	Marco 1
			136-143	Marco 2
			144-151	Marco 3
			152-159	Marco 4
			160-167	Marco 5
			168-175	Marco 6
			176-183	Marco 7
			184-191	Marco 8
			192-199	Marco 9
			200-207	Marco 10
			208-215	Marco 11
			216-223	Marco 12
			224-231	Marco 13
			232-239	Marco 14
			240-247	Marco 15
			248-255	Marco 16
15	21	Prism indexing and rotation	Rotation - set indexing on channel	
			0-255	0-200°
			Rotation - flowing water	
			0	No rotation
			1-127	Forwards gobo rotation from fast to slow
			128-129	No rotation
			130-255	Backwards gobo rotation from slow to fast
16	22	Frost	0-127	Closed
			128-255	Frost
17	23	Zoom	0-255	Zoom from max. to min.beam angle
18	24	Zoom Fine	0-255	Zoom fine
19	25	Focus	0-255	Continuous adjustment from far to near
20	26	Focus Fine	0-255	Focus fine

21	27	Effect	0-255	/
22	28	Shutter/ strobe	0-31	Shutter closed
			32-63	Shutter open, Full lamp power
			64-95	Strobe-effect from slow to fast
			96-127	Shutter open
			128-159	Opening pulse in sequences from slow to fast
			160-191	Closing pulse in sequences from fast to slow
			192-223	Shutter open
			224-255	Random strobe-effect from slow to fast
23	29	Dimmer	0-255	Dimmer intensity from 0% to 100%
24	30	Dimmer Fine	0-255	Dimmer fine

Maintenance and maintenance:

Shutdown operation: Before shutting down each power off, turn off the lamp in advance for 10 minutes. Let the cooling fan to use the heat generated in the lamp, the rapid discharge, which can extend the accessories within the lamp, especially the lamp life! To ensure that the lamp can be run stably, it should be kept clean, open the lamp for repair or start maintenance work before this first to confirm whether the power is disconnected, keep the lamp clean, clean is very important, please do regular cleaning, not only To maintain the maximum brightness output, but also to extend the life of the lamp, it is recommended to use high-quality glass cleaning agent and use a clean soft cloth to clean the lamp inside the vacuum cleaner at least six months cleaning time.

Innovation, Quality, Performance