

CLAIR LIGHTING LED MOJO 600W IP65



User's manual
(Read this manual carefully before use)

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Chapter 1 Safety guidance and parameters

1. Safety guidance

remind

Please keep this manual as a basis for future consultation, if you sell this product to other users, please make sure they also get it.

pay attention to

The equipment is well packed at the factory. Please follow the user manual, machine failure due to human reasons is not covered by warranty

- This lamp is only suitable for dry indoor places.
- The installation and operation of lamps should be carried out by professionals. ⚠
- Don't let children operate the machine. ⚠
- Use a safety rope when fixing the equipment, and keep the bottom of the lamp when moving it. ⚠
- The equipment must be installed in a well-ventilated place, at least 50 cm away from adjacent levels. ⚠
- Ensure that the air outlet is unblocked to avoid overheating when the lamp is running. ⚠
- Before operation, ensure that the power supply voltage is consistent with the equipment power supply voltage. ⚠
- Please ground the conductor to prevent electric shock. ⚠
- Do not operate the lamp above 40°C. ⚠
- Do not connect the indicator light directly to the dimming device. ⚠
- The new light may not have smoke or smell, and will disappear after 15 minutes of operation. ⚠
- Do not place combustible items near the lamp during operation to prevent fire hazard. ⚠
- Before turning on the lamp, please check carefully whether the power cord is damaged. If there is any damage, replace it immediately. ⚠
- The surface temperature of the lamp can reach 90°C, do not touch it with your hands. ⚠
- Avoid flammable liquids, water, metals and other electrical conductors from entering the interior of the lamp to avoid electric shock or fire. If any foreign matter enters the lamp, cut off the power immediately. ⚠
- Avoid working in dirty, dusty environments and regularly clean and maintain lamps. ⚠
- Do not touch the wire to prevent electric shock. ⚠
- Avoid using other wires to wind the power line. ⚠
- The distance between the lamp and the illuminated surface should be greater than 12M. ⚠
- Before changing a fuse or bulb, disconnect the power supply.
- When changing a fuse or bulb, please use the same model. ⚠
- In case of serious operation failure, please stop using immediately. ⚠
- Do not repeatedly turn on the indicator light. ⚠
- Please replace the lampshade, lens or UV filter. ⚠
- If there is no available part in the lamp, do not open the lamp shell without authorization
- Do not operate the machine by yourself. Non-professional operation will cause damage or malfunction of the equipment. If maintenance is required, please contact the nearest authorized service center. ⚠
- When the lamp is not used or repaired for a long time, the power should be cut off. ⚠
- To avoid fire or electric shock, do not expose the lamp to rain or damp areas. ⚠
- High temperature bulb explosion danger, do not turn on the light within 15 minutes after power failure. ⚠
- Replace the bulb when it is damaged, thermally deformed, or exceeds its service life. ⚠
- Do not look directly at the light during operation. ⚠
- When the bulb is running, it will be hot. Do not touch it with your hands. ⚠
- Do not operate the machine when the bulb is not covered or the shell is damaged.

I. Technical specifications

1. Rated voltage: AC 90-240V,50/60Hz

2. Rated power: 800W
3. Light source: high-power 600W white LED module
4. Lifespan of light source: more than 20000 hours
5. Color temperature: 8000K
6. color rendering index: standard mode Ra>70,
7. Power connector input/output signal input/output: three-core Canna head socket
8. Electric linear focusing system Beam Angle: 4°-40°
9. Mixed color system: Linear CMY mixed color linear CTO color temperature adjustment 2700K-6500K
10. Rotating pattern disk: 1 rotating pattern disk with 7 patterns and white circles, which can realize running water, shaking, random motion and slow and fast in both directions
Transformation effect, special high temperature resistant material, with Hall and magnet positioning. There is a "slot and lock" system to facilitate the replacement of Gobos
11. Fixed pattern disk: 1 fixed pattern disk, 5 fixed patterns + white light + water ripple pattern, which can realize flowing water, shaking, random motion and both directions
Fast and slow conversion effect, special high temperature resistant metal material, with Hall and magnet positioning
12. Color disk: 1 color disk, 6 fixed colors plus white, two-way rainbow effect, can achieve half color, full color, single and double color gradient and so on
The positive and negative direction slow and fast rainbow effect has the Hall, magnet positioning and automatic error correction function at any Angle.
13. Prism system: equipped with 4 prisms and 4 rows of mirrors that can rotate and superimpose in both directions
14. Smooth dimming from 0 to 100%, independent atomization effect
15. Excellent strobe effect, the speed can be changed, no flicker under high definition camera
16. Horizontal scanning: 540 degrees (16-bit precision scanning) electronic error correction, vertical scanning: 270 degrees (16-bit precision scanning) electronic error correction, automatic correction of X/Y axis position out of step
17. Control panel: 4.8-inch LCD touch display, temperature display, Chinese and English display, plus 4 physical keys
18. Control mode: DMX512, RDM, self-walking, voice control, master and slave mode
19. DMX channel mode: 24CH, software upgrade: update the software through DMX connection
20. Cooling mode: axial fan is used to enhance cooling
21. Safety device: electronic temperature control overheat protection is provided, and the electronic temperature control automatically cuts off power when the overheat system fails
Intelligent fan speed control: when the lamp is not lit or flashing, the fan will automatically reduce its speed to run, reducing the noise of the fan and creating a good performance environment.
22. Working environment: -20-40 degrees
23. Protection level: IP66
24. Net weight of the product: 23KG
25. Product size: 77*34*36CM (L*W*H)

Panel operation

1. abstract

The schematic diagram of the lamp panel is shown in Figure 1. The title above shows the name of the lamp, and the status bar below shows the current signal of the lamp, the state of the

bulb, and the fault (when the fault information is not viewed, "ERR" is displayed, otherwise "NOR" is displayed).

This indicator light supports DMX / RDM. When the RDM host searches for the light, three letters "RDM" will appear on the panel to indicate that the enumeration of the light is normal.

The display and operation are similar to the Android operating system, which can be operated by clicking on the corresponding items with a fingertip or blunt object.

Note: Do not use sharp or sharp displays to prevent damage.



Figure 1 shows a schematic of the panel

2. manage

1. Use intuitive touch or auxiliary input (touch control products)

- The left area is the TFT display area and touch area. You can complete parameter Settings or view status and other operations through the panel content.
- The right side is for auxiliary input. If you do not use TFT's own touch function, you can use auxiliary input to select the items to set or view and complete the operation.

2. Enter the parameter value

When the selected parameter needs to input a value, a window as shown in Figure 2 will be opened:

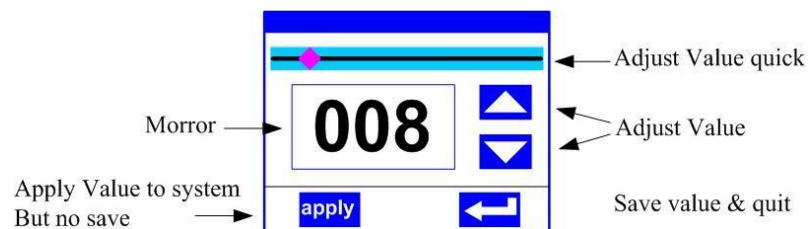


Figure 2. Value setting page

- Set value: You can directly pull the slider bar to quickly set the required value, or click the "up" or "down" button on the right to accurately set the required value, or use auxiliary input to set.
- Application value: Set the data through the "up" or "down" button, press the "application" button in the lower left corner to send it to the lamp immediately, but not saved.
- Save value: Click the "OK" button in the lower right corner at any time to save the current value to memory, and save the value applied to the indicator light on the next startup.

3. Set the Boolean parameter

- When the parameter is set to a Boolean value (such as ON or OFF), you can switch the parameter value by clicking the corresponding item, and the value will be saved to internal memory. When you click the parameter option on the right, the corresponding option will turn gray. When you release your hand, the changes will be saved. If you click an option that does not need to be changed, move your finger to another part of the screen, and the corresponding parameter will remain unchanged.
- Important Boolean parameters are determined by the determination window, as shown in Figure 3 below:

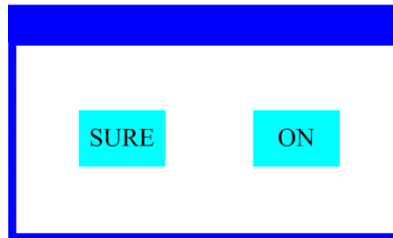


Figure 3 defines the input window

4. Subpage (parameter)



图 6-1地址设置

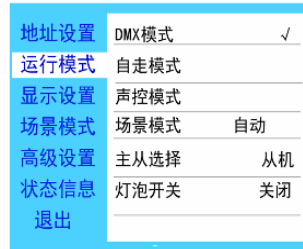


图 6-2运行设置

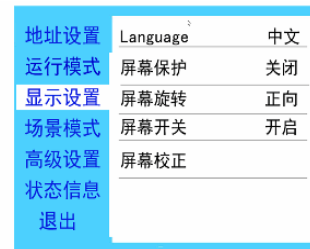


图 6-3显示设置



图 6-4场景设置

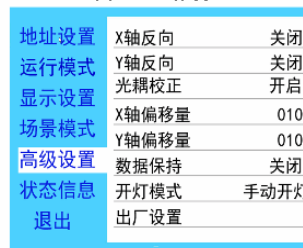


图 6-5高级设置

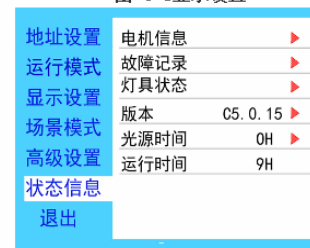


图 6-6状态信息

3. Function operation and parameter setting

Enter the Settings interface, as shown in Figure 6-1:

- In the main interface, by selecting 6 buttons, you can enter the corresponding parameter setting interface.
- In the parameter setting interface, you can press the left blue option to quickly switch to another setting interface.

1. Set the DMX address code

D MX address, channel mode, etc. can be set on the page shown in Figure 6-1.

The menu setting of the indicator light can optimize the address setting. Several settings of the address code are as follows:

- Select "last" or "next", the lamp will automatically calculate the next or last address code according to the current address code and channel data, which can be set quickly;
- Click the address code value to enter the value editing window, you can set any valid address code, the lamp can automatically obtain the current channel number of the lamp, and automatically filter the unavailable address code (512-current channel number).
- The lamp supports the R DM protocol, and the address code of the lamp can be remotely set through the R DM.

Provide two buttons:

- Channel mode: you can select different channel modes regularly;
- Reset the indicator light: Reset all motors.

5. Set the working mode of the indicator light

The operation mode of the lamp and control light gun can be set through the page shown in Figure 6-2. This lamp supports four operation modes (DMX mode, self-walking mode, sound control mode and scene mode). Please refer to the previous section for detailed parameter value setting. The specific parameter description is shown in the following table:

run mode	
DMX pattern	Console mode, receiving DMX signal, RDM signal
Self-driving mode	The lights run automatically according to a built-in program
Voice control mode	When the light detects a strong sound, it automatically runs a scene according to the built-in program, otherwise it maintains the last scene

Scene mode 01	It runs as a set of scenes and supports up to 10 custom edits	
	1~10	Output the specified scenario
	Volunteer	The scene is automatically output in the order of the set scene time (not 0), and the scene with time 0 is automatically skipped and ignored
Master-slave selection	When the non-DMX mode is working, select the data output mode. The indicator light automatically detects the DMX status and automatically switches the output to prevent data conflict	
	main engine	The lamp is built-in and runs, outputting data (synchronizing) if there is no DMX signal, otherwise it does not output data
	slave	The lamp operates as an internal lamp with no data output (not synchronized with other lamps)
	Volunteer	If there is no signal from DMX, the light operates as built-in, otherwise, the light works as a DMX signal
Light switch bulb	(A light bulb light source) A confirmation dialog box pops up. Select "SURE" to confirm the current operation, and open or close the light bulb. The time interval between switching is limited to 30 seconds	
	close	The current bulb output has been turned off
	open	The current light output is on

Scene mode is suitable for a single group or small number of lights, which only output fixed scenes, or need to run simple programs that can be edited in the scene page without connecting to the console.

If the light source is a bulb, wait 10 minutes after turning it off before turning it on.

6. Panel displays Settings

The lighting lamp supports bilingual Chinese and English, inverted display and other functions. Input the corresponding parameters as shown in Figure 6-3. The specific menu content is shown in the following table:

Display Settings

language	Set to display	
	English	English display
	the Chinese language	Chinese display
Screen protection	Set the content or mode of the screen within 30 seconds	
	close	Keep the last operation page and the screen lights up
	pattern 1	Outside the screen
	pattern 2	Black screen, the address code of the current indicator is displayed in the lower left corner
	pattern 3	Display the trademark information, address code and operation mode
The screen rotates	Set the display direction of the screen	
	close	No reversal is shown
	open	reverse video
	Volunteer	Automatically detect the hanging direction of the lamp and automatically switch the display direction
DMX representation	Set the mode of DMX signal indicator	
	pattern 1	Bright signal, no signal
	pattern 2	The signal is extinguished and the signal is bright when there is no signal
	pattern 3	The signal flashes with a signal and extinguishes without a signal
Signal indicates brightness	Set the brightness of the signal indicator	
	1~10	Level 10
Screen backlight	After 10 seconds without operation, set the backlight brightness of the screen. All lights will be on when operating	
	1~10	Level 10
Touch screen switch	Select whether to disable the touch screen. Disable the touch function and set the auxiliary input light when the screen is accidentally damaged	
Touch to correct	When the screen is not touched accurately, you can go to the correction page to correct the screen	

Lights that support touch operation. If there is a bad touch phenomenon, you can enter the correction page and adjust the touch accuracy of the touch screen again. Under normal circumstances, do not enter this page. If the touch switch is damaged, select to disable the touch

switch.

7. Scene mode

Enter the page shown in Figure 6-4, and the lamp enters the scene editing mode. On this page, the lamp does not receive DMX console data, and the edited data will be reflected on the lamp immediately.

The content of the page depends on the channel currently selected, and the displayed channel content and order match the channel table of the lamp. Through this page, you can edit 10 scenes as shown in the following table:

Scene mode		
Programme options	Select the current operation plan	
	1~10	10 Scene format
Scene time	Set the time at which the current scene is automatically displayed in 0.1 seconds	
	0	The current scene does not participate in automatic scene output
	1-255	0.1 second to 25.5 seconds
1. X-axis	0-255	Set the data for each channel, and display the content and order corresponding to the channel table of the lamp
.....	0-255	
.....	0-255	
N. function	0-255	

If valid reset data is edited in the scene's reset channel, the light will be reset, but after the reset, the corresponding value of the reset channel will be automatically reset to prevent multiple consecutive resets.

Check the current channel table order of this page. For specific channel data, please refer to the detailed channel description.

8. Set the operating parameters of the indicator light

Enter the page shown in Figure 6-5 and adjust the on-site parameters of the lamp to facilitate the on-site installation of the lamp:

advanced setup		
The X axis is reversed	Set the rotation direction of the X axis	
	close	Don't reverse
	open	opposite direction
The Y axis is reversed	Set the direction of Y axis rotation	
	close	Don't reverse
	open	opposite direction
Optical coupling correction	Set the indicator light to detect and correct XY errors	
	close	The position after the step is incorrect
	open	Automatically correct the position after a fault and record the fault
X axis offset	Set the X axis zero position of the lamp	
	4-150	
Y axis offset	Set the position of the Y axis	
	4-48	
data-hold	When the lamp does not have DMX signal, set the output state of the lamp	
	close	There is no signal, so the motor and light source return to this position and state when the reset is complete
	open	No signal, maintain the last frame of D MX data output
Turn on the light mode	Set the way to turn on the bulb for the first time	
	On the electric bubble	Turn on the bulb first and reset the indicator after 30 seconds
	Reduce and proceed	The light will return after 3 seconds. Turn on the bulb after resetting is complete
	Manually foaming	After resetting, manually turn on the bulb through the menu or console
Factory setup	In the confirmation box, select "SURE" and the lamp parameters return to the factory setting	

When the bulb mode is selected, the lamp will wait for the bulb to start up completely for 30

seconds, with the internal voltage stable enough, and then start the reset program. If the on-site power capacity is stable, it is recommended to open the bulb mode.

When the lamp cannot correct the position, first check whether the light coupling correction is turned off.

When the signal is removed, if the lamp position does not output as expected, first check the data retention setting.

When setting the XY offset, after completing the setting, please first use the maximum stroke control XY to check the setting, and the XY will not hit the positioning rod or housing.

9. Check the current status of the indicator light

To view the information and real-time status of the lamp, and to understand the use status of the lamp, go to the page shown in Figure 6-6. If the lamp needs after-sales service, please provide the status information displayed on the judgment basis page, as shown in the following table:

status information		
Motor information	Displays the status of all motors and signals in the indicator light	
	Hall nickname	Not shown, indicating that the motor is not in the Hall correction position. 0 indicates that the motor is away from the correction position point, and 1 indicates that the motor is at the correction position point
	state	Display the status of the reset of the display
	X axle	Display the real-time position value of the x-axis optical coupling feedback
	Y axle	Display the real-time position value of the Y-axis optical coupling feedback
	optoisolator	Displays the level status of two signals with X axis and Y axis
Record of fault status	The last 8 fault records of the display light reset and operation are not saved when the next power cycle is valid after a power failure	
	fault data	The total number of faults detected after power-on
	12::03	When a fault occurs, the boot time is in minutes
	Hall fault	When the corresponding motor is reset, the motor does not detect a valid Hall signal
	Hall short circuit	When the corresponding motor is reset, the Hall signal detected by the motor is always valid
	Light coupling fault	When the corresponding motor is reset, no valid optical coupling signal is detected
	fall out step	The corresponding motor loses step
	Cleft rod	The motor resets and the collision positioning rod is located
	The bulb is faulty	The light bulb blew out accidentally
	Sensor malfunction	The temperature sensor signal is abnormal,
	Fan failure	The main fan is not working properly
Lighting status	Display the key status data of the current fixture for reference	
	exchange	0~100%, data link communication quality inside the lamp
	miscount	The total number of error frames detected after the machine is started, accumulated
	Light source temperature	Displays the temperature of the current light source. "——" indicates that it is not detected
	Display the panel temperature	Displays the temperature of the current display board or the ambient temperature nearby
	Sensor 1 temperature	Displays the current motherboard temperature or the ambient temperature of the motherboard installation location
Version information	Displays the information and version of the current lamp, which is an important reference for after-sales maintenance	
	equipment	The name of the lamp is the same as the device information of RDM
	model	The lamp model serves as the model information of RDM
	display board	The firmware version and serial number of the display board
	Motherboard 1	Firmware version and motherboard serial number 1
Light source time	The cumulative time of the light source being on is recorded and manually cleared by the user as a reference for regular maintenance of the light source	
The duration of the light	Record the cumulative time of turning on the light, unit: minutes. Not clear	

Chapter 2 Channel description

2. channel table

This lamp has two channel modes, 22CH / 26CH. You can view the channel order in scene mode. The channel mode is set in the Address Settings page. See the following table for specific data:

channel 1	channel 2	name	numeric value	description
[CH1]	[CH1]	X axle	0-255	0-540 degrees
[CH2]	[CH2]	X-axis fine-tuning	0-255	0-2 degrees
[CH3]	[CH3]	Y axle	0-255	0-270 degrees
[CH4]	[CH4]	Y-axis fine-tuning	0-255	0-1 degrees
[CH5]		XY velocity	0-255	From fast to slow
[CH6]	[CH5]	aiming	0-255	0-100% dimming
[CH7]	[CH6]	Strobe flash		
			0-3	Guan Kuang
			4-103	From slow to fast pulse flash
			104-107	switch
			108-155	From slow to fast, the frequency flash gradually opens
			156-207	From slow to fast random flicker
			208-212	switch
			213-251	From slow to fast random flicker
			252-255	switch
[CH8]	[CH7]	colour disk		
			0-9	white light
			10-19	Color 1
			20-29	Color 2
			30-39	Color 3
			40-49	Color 4
			50-59	Color 5
			60-69	Color 6
			70-79	Color 7
			80-89	Color 8
			90-99	White light + color 1
			100-109	Color 1 + color 2
			110-119	Color 2 + color 3
			120-129	Color 3 + color 4
			130-139	Color 4 + color 5
			140-149	Color 5 + color 6
			150-159	Color 6 + color 7
			160-169	Color 7 + color 8
			170-179	Color 8 + color 9
			180-215	From fast to slow positive flow
			216-220	cease
			221-255	Slow to fast reverse flow
[CH9]	[CH8]	CTO	0-255	

[CH10]	[CH9]	ching	0-255	
[CH11]	[CH10]	pinkish red	0-255	
[CH12]	[CH11]	yellow	0-255	
[CH13]	[CH12]	Map		
			0-9	Pattern 1
			10-19	Pattern 2
			20-29	Pattern 3
			30-39	Pattern 4
			40-49	Pattern 5
			50-59	Pattern 6
			60-69	Slowly shake the pattern 2 to fast
			70-79	Slowly shake the pattern 3 to fast
			80-89	Slowly shake the pattern 4 to fast
			90-99	Slowly shake the pattern 5 to fast
			100-109	Slowly shake the pattern 6 to fast
			110-185	Reverse the flow from fast to slow
			186-188	cease
			189-255	From slow to fast, it's a positive flow
[CH14]	[CH13]	Map effect	0-255	
[CH15]	[CH14]	Rotate the dial		
			0-9	white light
			10-19	Pattern 1
			20-29	Pattern 2
			30-39	Pattern 3
			40-49	Pattern 4
			50-59	Pattern 5
			60-69	Pattern 6
			70-79	Pattern 7
			80-89	Slowly shake the pattern 1 to fast
			90-99	Slowly shake the pattern 2 to fast
			100-109	Slowly shake the pattern 3 to fast
			110-119	Slowly shake the pattern 4 to fast
			120-129	Slowly shake the pattern 5 to fast
			130-139	Slowly shake the pattern 6 to fast
			140-149	Slowly shake the pattern 7 to fast
			150-200	From fast to slow positive flow
			201-205	cease
			206-255	Go from slow to fast in reverse flow
[CH16]	[CH15]	The map rotates		

			0-127	0-360 degrees
			128-190	Reverse the flow from fast to slow
			191-192	cease
			193-255	From slow to fast, it's a positive flow
[CH17]		The map is fine-tuned	0-255	
[CH18]	[CH16]	Prism 1		
			0-127	not have
			128-255	Insert prism 1
[CH19]	[CH17]	Prism spins		
			0-127	0-360 degrees
			128-187	From fast to slow positive flow
			188-195	cease
			196-255	Go from slow to fast in reverse flow
[CH20]	[CH18]	Prism 2		
			0-127	not have
			128-255	Insert prism 2
[CH21]	[CH19]	Prism 2 spins		
			0-127	0-360 degrees
			128-187	From fast to slow positive flow
			188-195	cease
			196-255	Slow to fast reverse flow
[CH22]	[CH20]	atomization		
			0-127	not have
			128-255	atomization
[CH23]		effect	0-255	
[CH24]	[CH21]	amplify	0-255	down to
[CH25]	[CH22]	focus	0-255	From far to near
[CH26]		Adjust focus fine	0-255	
[CH27]	[CH23]	Reset/function		
			0-209	NF
			210-215	Reset the XY motor after 3 seconds
			216-219	NF
			220-235	Reset the motor effect in 3 seconds
			236-239	NF
			240-255	Reset the whole lamp after 3 seconds