

Clair Lighting

LED Outdoor DMX Water Light 100W



User's Manual

Safety warning information Attention! When performing any installation, cleaning, maintenance, or moving, please make sure that the power is disconnected!



WARNING! Before using the product, please read the latest product manual and pay special attention to safety information. Any faults and problems caused by misuse or neglect of the manual are not within the scope of our company's responsibility and warranty.



Danger!

High voltage, beware of electric shock.



WARNING! The surface is hot, do not touch it.



WARNING! Prevent fire.



The power supply used should comply with the power standards required by the instructions, and be equipped with overload protection devices and grounding facilities. Only qualified personnel can make electrical connections.



WARNING! Wear a protective cover.

- Pay attention when using the product: avoid serious or fatal damage caused by fire, heat, electric shock, ultraviolet radiation, bulb explosion or falling off. Read the manual before powering on or installing and using. Follow the operating safety precautions and pay attention to the instructions and warning signs on the equipment.
- Only professionals can install, operate and maintain the lamps, and strictly follow the procedures stated in the operating instructions.
- Before installation, please make sure that the power supply voltage used is consistent with the voltage

marked on the lamp. Each lamp should be properly grounded and electrical installation should be carried out in accordance with relevant standards. Do not connect the power cord of the lamp to any other dimming device.

- The eyes cannot face the luminous body for a long time.

The installation position of the luminaire should be such that it will not be stared at for a long time at a distance of less than 4m.

Common guidelines

- This product is for professional use and is not suitable for others.
- After receiving the lamp, please check whether the package is complete, and unpack to check whether the equipment is damaged due to transportation. If there is damage caused by transportation, please do not use this lamp, and contact the local technician or manufacturer as soon as possible.
- The bulb is damaged and thermally deformed and should be replaced.
- The light source in this lamp should be replaced by the manufacturer or its service agent or a similarly qualified person. Warning, risk of electric shock
- Basic insulation should be maintained between the controllable device and the product power supply.
- Rated maximum ambient temperature $t_a=45^{\circ}\text{C}$
- The highest surface temperature during working $t_c=80^{\circ}\text{C}$
- Do not place any other objects on the lamp body.
- The outer surface of the lamp has a high temperature during long-term use, please do not touch it to avoid burns. Use for more than 4 hours, the surface temperature will exceed 60 degrees Celsius!
- Do not use accessories not approved by the original manufacturer to repair or install the lamp
- If visible damage occurs to the protective shell, lens and display screen on the lamp, it is damaged to the point of failure. If cracks and deep marks are generated, they should be replaced.
- Replace any components and accessories in the equipment, and ensure that the equipment is disconnected from the power supply to prevent damage from electric shock.

When unpacking or moving, two persons must carry the equipment to prevent damage to the equipment. The equipment should be fixedly installed. To ensure the stability of its installation point, at least a load-bearing structure that can withstand more than ten times the weight of the product.

- Only professionals can install, operate and maintain the lamps, and strictly follow the procedures stated in the operating instructions.

- The lamp should be installed in a well-ventilated place, keep the distance from the wall at least 50 cm, and check whether the fan and vents are unblocked.
- If the external flexible cable or cord of this lamp is damaged, the cord must be replaced by the manufacturer, its agent or similarly qualified person to avoid danger.
- Whenever installing or removing it, obstacles should be set up around the working area to prevent non-operators from entering.
- Please do not place any filters or other objects at the light exit, and do not replace non-original parts.
- If you have any other questions about how to operate the equipment safely, please contact our technical staff.

Fixture packaging accessories

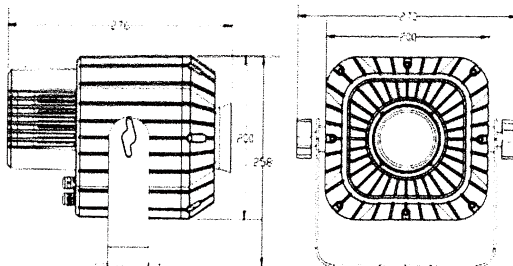
Name	quantity	Unit	Remarks
User Manual	1	pcs	
Waterproof adapter signal cable	2	pcs	
Waterproof adapter power cable	1	pcs	



Note:

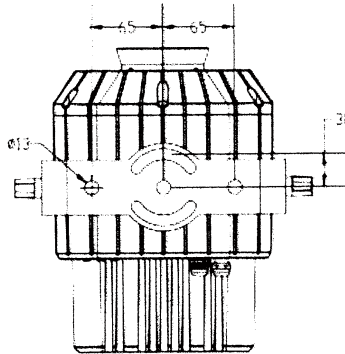
The attachments are subject to change without notice.

Product Introduction



Installation hole diagram

(please use light hook and safety rope to install, and its load-bearing capacity is at least 20kg)



Packing and shipping

Unpacking

Note: After receiving the lamp, please unpack and check whether there is any damage caused by transportation. If there is damage caused by transportation, please do not use the lamp, and contact the local technician or manufacturer as soon as possible.

This series of products are packaged in standard cartons. Please read the manual carefully before use. According to the operating rules, to avoid damage to the light or body, please handle carefully after receiving the product. Check whether the product is damaged in transportation, open the lid, and Take out the relevant accessories from the box, take out the lamp, and place the lamp on a horizontal table to facilitate related operations.

Equipment packaging

1. Disconnect the power supply before packaging the lamp to completely cool down the lamp, at least 15 minutes or more.
2. Carton: Put the packaging plastic bag, put the lamp in the carton properly, and then put the accessories

Power and signal connection

Power connection

Connection method:

L (fire wire) brown wire

E (ground wire) yellow/green two-color wire

N (zero line) blue line

When connecting the power supply, please note that the power supply voltage and frequency must match the voltage and frequency marked on the lamp. When multiple lamps are used at the same time, it is recommended to connect the power supply of each lamp separately, so that each lamp can be individually controlled on/off.



Note:

When connecting the power supply, the ground wire (yellow/green two-color wire) must be safely grounded and comply with all relevant standards for electrical installation.

Signal connection

The lamp has standard DMX input and output 3-pin and 5-pin XLR plugs.

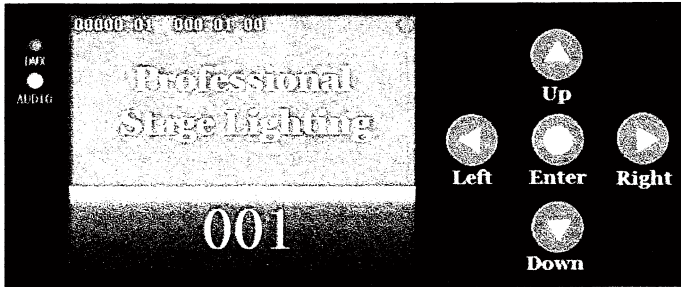
Use a shielded twisted pair signal cable to connect from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on. Until all the lamps are connected, install a terminal plug on the output 3-pin jack of the last connected lamp of each connection. (Weld a 4/1W, 120Ω resistor between the 2 and 3 pins of the 3-pin XLR plug).

Equipment status inspection

After the power line and signal line are connected, turn on the power. If the reset is normal and the single machine is controllable, the bulb can work normally, and the lamp can be put into use.

Control Panel

Panel Introduction



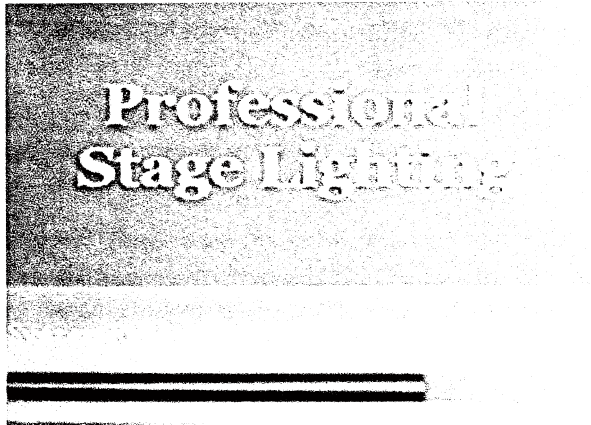
- It adopts touch buttons and TFT 1.8-inch LCD screen. The built-in chip adopts the world's fastest CPU of this series so far, without flickering or freezing.
- Programming is written in the underlying core programming language with the lightest code in the world. While optimizing the interface, the code is simplified, running smoother, and effectively improving efficiency.
- The interface is intuitive, colors are selectable, and the operation is flexible. The external console is abandoned to realize the integration of control and connection. This product is unique without RDM function, easy to realize one step control console to set different address codes of each light.
- The panel has a built-in lithium battery, which can set address without light power on.

Function Menu Operation

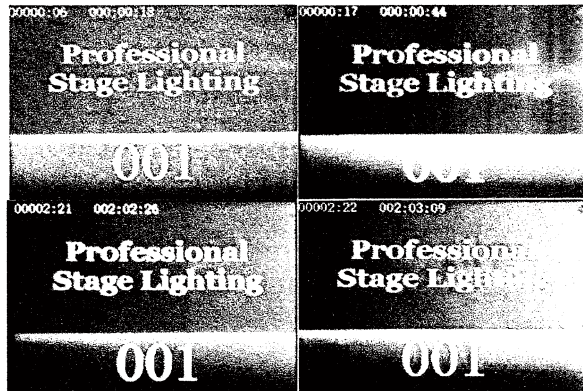
DMX	DMX Signal indicator
AUDIO	Indicator light when sound activated
Up	Menu upward selection
Down	Menu downward selection
Left	Menu left selection/back
Right	Menu right selection
ENTER	Confirm button
Time on the left of the upper right corner of the screen	Total system use time (can be turned off in standard settings)
Time on the right side of the	The total time of this power-on (can be turned off in the

upper right corner of the screen	standard settings)
Dot in the upper right corner of the screen	Green: normal, no errors
	Red: There is an error (you can click "Information Menu/Error Message/View" to view the error

After the system is powered on, the interface is displayed as shown picture. At that time the entire system will be reset and initialized and check the status of each function by itself.



The main interface after reset is as shown below



If the system has an error or a function is abnormal, after the reset is completed, the square in the upper right corner of the screen will turn into a red square (normally green) to indicate an error. Users can check the error information in "Information Menu/Error Message/View".

Users can also choose different interface styles according to personal preferences, and can set colors in the standard settings

Manual control or programming function description

This function can program 4 user programs at most, and 4 programs can be run in series. That is to say, the 4 programs that have been programmed can be switched to on at the same time in the "Test Run" function. When running, program 1 is run first, and then Go to program 2, go to program 3, then program 4, then loop back to program 1 and so on. Of course, you can also single-select operation.

Operations that can be achieved by programming function buttons:



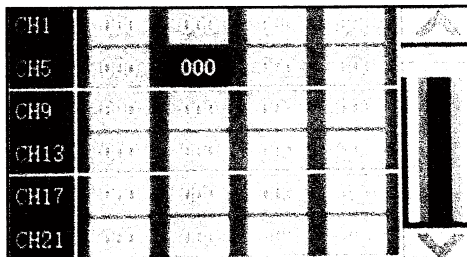
Select program, read program, select step, delete step, manually or console input, copy current step, paste to selected step, clear current step, save to selected program space

Manual control:

Manual/Console mode button is selected to manual position.



Then double-click the corresponding channel to turn red, push and pull the slider or click the up and down arrows to manually control it.



Manual control programming

Select the PRO1-4 that needs to be saved, and after setting the channel value of one step through manual control, click the step (the number button is the step) as shown in the figure,



Press the up and down buttons to go to the next step. Then manually control and set the channel value, the next step is analogous.

Delete step:

If there are too many programming steps, the following steps can be deleted. Select the step button and press the "arrow down" button to return to the previous step that is not needed. At this time, the number of the step is displayed as > 0XX. At this time, press and hold the OK key for 3 seconds, and the following steps can be deleted. The display becomes =0XX.

Copy step:

Press the copy button to copy all channel values of the current step and temporarily store them in the memory pasteboard.

Paste step:

After copying, you can select any step, and paste the channel value of the pasteboard into the currently selected step channel.

Clear step:

Press the clear button to clear the channel value of the current step.

Console control programming:

This device provides a more convenient console input programming function, which can also be used to enter the console program step by step to realize the function of copying the program compiled by the console.

As shown in the figure, select the manual/control console input mode as the console.



At this time, all channel values are input by the DMX console, manual invalid, pasting invalid, and clearing invalid. All channel values display DMX values in real time.

At this time, programming only needs console input, or the console runs the programmed step in a single step, that is, enters the console program. This device only needs to click the next number and press the up arrow to realize programming.

Save the program:

After programming each step by manual input or console input, you can save this programming. Please make sure to select the save location PRO1--PRO4, please note that the saved step length is equal to the step value = 0XX, instead of seeing the step value > 0XX. Please delete the redundant steps later, refer to (Delete Steps", and then press Save.

Read the program and re-edit the program:

As shown in the figure, select the PRO1--PRO4 that need to be read out, then click the step button, and press the arrow down to display "Read Out". Press the OK key at this time to read the selected program. The displayed value after reading is the maximum step value of the current program. If the program is empty, it will display as "Empty" or "No"



Run the program:

If you need to run the programmed and saved program, please return to the "Test Run/Perform" function menu, click to select the corresponding user program, and switch to "On"

System menu description

Press any key or touch the screen to enter the system menu

Reverse	Reverse the screen display
Exit	Exit to the main interface
Language	Simplified Chinese or English can be selected
Standard	Address code and some commonly used function settings
Advanced	Main debugging parameter settings at the factory
Info	Error, software version and other information display
Program	Manual control operation, or edit user program
Perform	Automatic operation or sound control operation built-in program,

	user program
Reset	System reset to initial position

Function Menu

Standard	Default set	Enter?	Restore factory set
	Address	001-512	Set up DMX address
	DMX mode	Mode1 Mode2 Mode3 Mode4	Select DMX control mode
	Effect mode	No/Yes	The effect disc automatically finds the shortest distance rotation operation
	Started lamp	Off/on	Choose whether to turn on the bulb every time it is "on" or "off"
	Switch lamp	Off/on	Turn on the light manually
	No signal	Clear Hold	Keep DMX value or clear DMX channel value when there is no DMX signal
	UI Color	Green Blue Golden Gray	Choose screen menu color
	Show time	No/Yes	Show running time timer on main interface
	Brightness	000-255	Adjust screen brightness
	Screensaver	Off/on	Turn off the screen when there is no touch or key operation

Standard	XY encoder	No/Yes	Cancel or use XY automatic error correction function
	X inversion	No/Yes	Select X axis forward or reverse run
	Default set	Enter?	Restore factory set
	Address	001-512	Set up DMX address
	DMX mode	Mode1 Mode2 Mode3 Mode4	Select DMX control mode
	Effect mode	No/Yes	The effect disc automatically finds the shortest distance rotation operation
	Started lamp	Off/on	Choose whether to turn on the bulb every time it is "on" or "off"
	Switch lamp	Off/on	Turn on the light manually
	No signal	Clear Hold	Keep DMX value or clear DMX channel value when there is no DMX signal
	UI Color	Green Blue Golden Gray	Choose screen menu color
	Show time	No/Yes	Show running time timer on main interface
	Brightness	000-255	Adjust screen brightness
Screensaver	Off/on	Turn off the screen when there is no touch or key operation	
XY encoder	No/Yes	Cancel or use XY automatic error	

			correction function
	X inversion	No/Yes	Select X axis forward or reverse run
	Y inversion	No/Yes	Select Y axis forward or reverse run
	Focus inversion	No/Yes	Select the focus axis to run forward or backward
	Zoom inversion	No/Yes	Select the zoom axis to run in the forward or reverse direction
Advanced	This setting is the main parameter setting of the fixture and requires permission		
Info	Error List	No error/View	If there is no error or there is an error, click OK to view the error
	System ver	Vxxxxxxx	System version information
	Serial NO.	xxxxxxx	Equipment factory number
	SYS timer	00000.0H	Total running time of the system (hours)
	Run timer	000:00	Running time after this power-on (hours)
	Lamp timer	00000.0H	The total time the bulb is on (hours)
	Equip TEMP	000	The temperature of the main part of the equipment (need equipment support)
	Head TEMP	000	The temperature of the lamp head of the device (requires device support)
	Run mode	Auto/Sound	Run the selected program automatically or by sound
	Run speed	255	Set the speed of automatically running programs
	Run cross	255	Set sliding steps for automatic or voice-activated operation (device support required)
	Built-in 1	Off/on	Built-in test program 1
	Built-in 2	Off/on	Built-in test program 2

	User PRO 1	Off/on	User self-programming program 1
	User PRO 2	Off/on	User self-programming program 2
	User PRO 3	Off/on	User self-programming program 3
	User PRO 4	Off/on	User self-programming program 4
	Circle shape	Off/on	(Reserved)
	Shpae shape	Off/on	(Reserved)
	Pattern amplitude	000	(Reserved)
	Shape range		
	Sound DB	000	Adjust voice control sensitivity
Program	Explain in detail on the next page		
Reset	System reset to initial position		

DMX Channels

Channel	Value	Effect
CH1 Color	0-7	White
	8-15	white+red
	16-23	red
	24-31	red+Green
	32-39	Green
	40-47	Green+dark blue
	48-55	dark blue
	56-63	dark blue+yellow
	64-71	yellow
	72-79	yellow+orange

	80-87	orange
	88-95	orange+blue
	96-103	blue
	104-111	blue+rose red
	112-119	Rose red
	120-127	Rose red+white
	128-191	Rainbow effect from fast to slow
	192-255	Rainbow effect
CH2 Effect 1	0-127	Effect Angle
	128-191	Forward speed from slow to fast
	192-255	Reverse speed from slow to fast
CH3 Effect 2	0-127	Effect Angle
	128-191	Forward speed from slow to fast
	192-255	reverse speed from slow to fast
CH4 Dimmer	0-255	From dark to brightness
CH5 Strobe	0-10	on
	11-255	Strobe from slow to fast
CH6 Reset	0-254	Empty
	255	Reset after 5s

Technical Parameter

- Light source

□100W/□150W/ □200W/ □300W Imported chip customized LED

- **Voltage**

Input Voltage: AC90V~245V 50Hz/60Hz

- **Optics**

Color temperature: 7500k

Color rendering index: ≥85

Dimming: 0%~100% index dimming

Strobe: Electronic adjustable speed strobe (1~20Hz)

Dual special effects disk, individually controlled by 512 signals

7 Colors

- **Software and Control**

Control mode: DMX-512/auto

run/sound control/master-slave

6CH DMX channels

Display: TFT display

- **Working environment (indoor)**

Operating temperature range: -20°C--45°C (-4°F-113°F)

- **Light size and Net Weight**

Light size: 276*270*285mm

Net Weight: 5-7kg

- **Material**

BS new material, excellent heat dissipation effect, anti-corrosion, anti-ultraviolet, default black, silver gray optional, color can be customized according to requirements.

Cleaning and Maintenance

The equipment require daily cleaning and maintenance. The service life depends largely on the operating environment and specifications. If you have any questions, please consult the factory's technical engineers for suggestions. Repair and maintenance work not included in this book should be given to qualified technical

engineers..

Note:

Damage caused by dust, smoke oil, water, fire, etc., abnormal use and force majeure factors are not covered by the warranty

Disconnect power before opening any cover. To clean the optical parts, wipe lightly. The coated surface is easily scratched. Do not use damaging liquids or hard objects, which will damage the plastic or coated surface.

- When the bulb is deformed or damaged, it should be replaced in time.
- When the brightness drops significantly, the bulb may have reached its expiration date and should be replaced in time. The aging bulb may burst.
- When the lamp cannot be started, please check whether the power fuse of the lamp is blown. If it is blown, the fuse of the same specification must be used for installation.
- The fixture is equipped with a temperature protection device. When the temperature is too high, the protection device will automatically extinguish the bulb. When this happens, please check whether the fan is running normally and whether the fan and fan net are blocked by dust. Find out the fault and repair it before starting the lamp. . Note that only qualified technicians can perform maintenance work