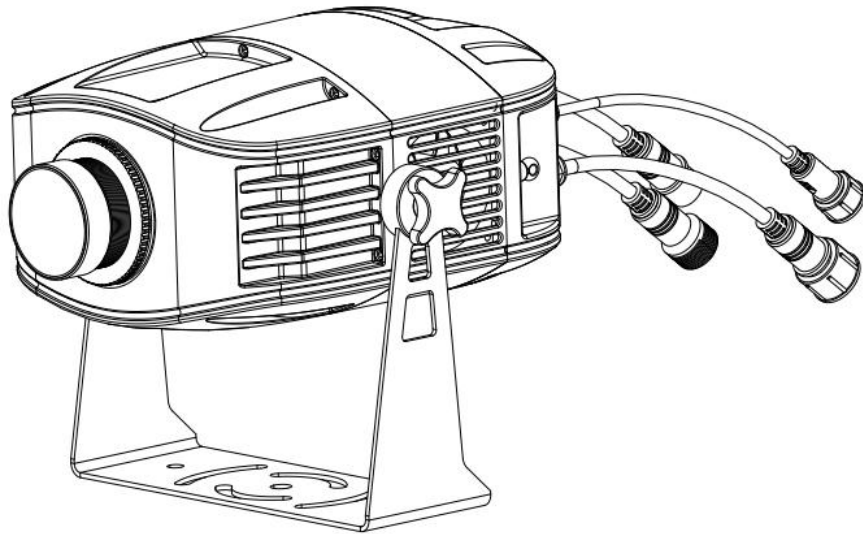


MS-WAV300

300W WATERPROOF Water Wave Projector



(Waterproof level IP66)



User Manual

Please read this user manual before using this product.

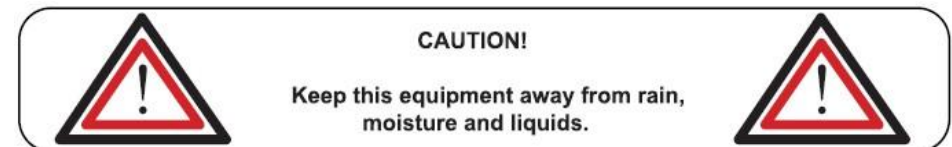


I. Unpack to check

Item	Description	Quantity	Unit
1	300W Water Wave Projector	1	piece
2	Power Cord	1	piece
3	DMX Cable	1	piece
4	User manual	1	piece
5	DMX Cable Waterproof cover	1	piece
6	Power Cord waterproof cover	1	piece
7	Safety rope	1	piece

- ★ For the sake of safety and under the terms, it does not allow unauthorized restructuring or modification of this product. Please note that improper use and human damage caused by this product, it can not be covered by our warranty. Also, unprofessional operations will cause short circuits, burns or shocks, and more either.
- ★The machine has been rigorously tested before shipment. Please comply with the instructions of the operation requirements, to ensure the product can be running safely under normal circumstances.
- ★Any damage caused by improper operation will result in the termination of the warranty claim. We don't accept any property lost and responsibility of human being improper use and unprofessional operation.
- ★Please place user manual in a safe place for reference and transfer to the new holder after the product is sold or leased or moved.
- ★Attention:Base on our products keep improving by our company,our user manual data is subject to change without notice. We will remain rights of changing product specification.

II. Safety Instruction



1. After opening the package, take out all the accessories and machine, put them on

a horizontal table for good operation, Firstly, check whether the items are complete or not. Then check carefully whether the machine is damaged or not. If there is any damage, please contact us in time.

2. AC Power: Check whether the local power supply is accordance with the requirements of the product rated voltage.

3. The product is suitable for indoor and outdoor working environment. The light should keep dry, keep away from wet, overheat or dusty environment. To prevent or reduce the risk of electric shock or fire, the machine should not be directly immersed in water.

4. When installing and positioning the machine, please do not install the machine directly on the surface of ordinary flammable substances.

5. Only qualified professionals can install, operate and maintain the machine.

6. When the machine fails, please stop using it immediately. Do not attempt to repair it yourself, please contact the nearest authorized technical assistance center, and if any accessory is damaged, always replace it with the same type.

7. Do not touch any cables during the machine working, there may be dangerous electric shock.

8. Ensure that the ambient temperature for the normal and stable operation of the machine does not exceed 40°C at the highest and -20°C at the lowest.

9. Under stable heat dissipation working conditions, the maximum temperature of the machine housing can reach 60°C, please do not touch it with your hands. This machine is designed according to the type of electric shock protection.

10. The machine should be connected to a power supply system with sufficient grounding and the ground wire of the machine must be in contact with the ground wire of the power supply system, and the ground wire marking port of the metal housing of the machine should be securely connected to the mounting light stand.

11. Do not use the power cord with damaged insulation, and do not overlap the power cord with other conductors. When the machine is not in use or cleaning, please unplug the power cord, do not forcefully pull or pull the power cord directly.

12. There are no user serviceable parts inside this machine. Before starting to operate the machine, please check that all housings are installed and the screws are securely tightened. Please do not use the machine with the enclosure open.

Note: Before any installation, maintenance and cleaning of the machine, please make sure that the power cord is cut off!



CAUTION! TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!



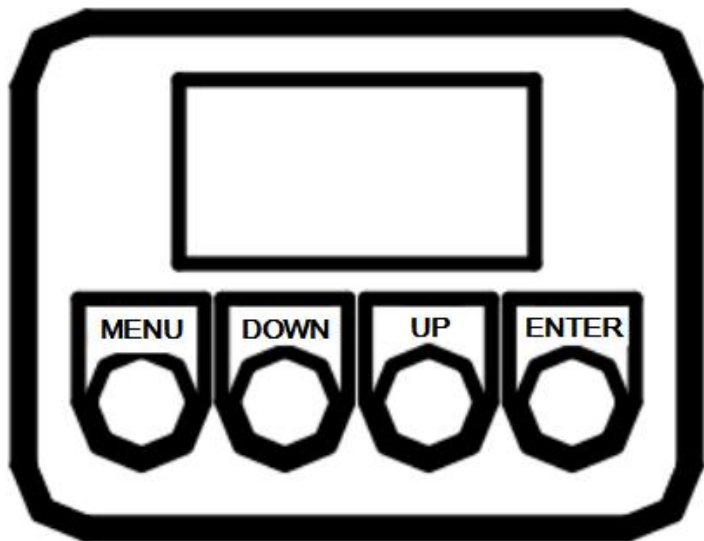
III. Feature

Item	Description
LED Color	300W White
LED Dimmer	0-100% linear dimmer
Channel	6CH
Light intensity	2400Lux@5M(45°)
Function	☒ DMX ☒ RDM ☒ Master/Slave ☒ Auto run
Voltage	AC100-240V, 50/60Hz
Fuse	F5A L250V
Power consumption	345W
★Beam angel★	45° (30°/70°Optional)
Gobo	Water wave
Color	White/Red/ Green/ Cyan/ Yellow/ Purple
Power connection	Maximum number: 5 units@100V, 10units@240V
Signal connection	Maximum number: 32Pcs
Strobe	0-20Hz
★Focus★	Manual focusing
Light size	315*172*380mm
N.W.	10Kg
LED Display	1.3 inch OLED touch screen
Temperature control	Multiply points of detection to control the temperature, so the device can be better protected.
★Fan control★	During startup: 10 seconds ultra-high speed dust removal function. During working: Control the speed and noise according to the ambient temperature.

IV. Precautions:

1. ★★★ After changing the lens or adjusting the focal length of the lens, please remember to tighten the lens pressure ring firmly to prevent water from entering.
2. ★★★ When the ambient temperature is lower than -20 degrees, the machine will enter the "low temperature starting mode", and it will automatically restart and return to the normal working mode after running for five minutes.

V. LED Display



Item	NO.	Silkscreen	Function
Button:	①	MENU	Enter/View Menu Functions
	②	DOWN	View next menu
	③	UP	View previous menu
	④	ENTER	Enter selected function / Confirm and save

VI. Function

★★★Display unlock password: **UP -DOWN -UP -DOWN**

Menu					Description
DMX Address	001-512				Select from address 1 to 512
Single machine mode	Loop mode	Step1 . . . Step6	Step on/off	On/Off	Set the current step as On or Off
			Dimmer	0-255	Set the brightness for the current step
			Strobe	0-255	Set the current step strobe speed, 0-255
			Color	0-255	Set the current step color, 0-255
			Water wave1	0-255	Set the speed of water wave gobo1 0-255 for the current step
			Water wave2	0-255	Set the speed of water wave gobo2 0-255 for the current step
			Step time	0.1-60.0s	Set the length of time(0.1-60.0s) for the current step
	Static mode	Dimmer	0-255		Dimmer 0-255
		Strobe	0-255		Strobe 0-255
		Color	0-255		Color 0-255
		Waterwave1	0-255		Water wave 1 speed, 0-255
		Waterwave2	0-255		Water wave 2 speed, 0-255
M/S Settings	Master				Set the device as Master
	Slave				Set the device(s) as Slave
Advanced Settings	Language				Chinese/English
	Display direction				Display forward/inverted
	Display On/Off				On: The display is always on Off: The display goes off
	Keep				When no DMX signal , the lamp remains current status.

	Blackout	When no DMX signal , the lamp goes off.
	Auto run	When no DMX signal, the lamp goes into Autorun mode
	Reset	Restart the device
	Service	Password
Information	Version No.	Current Version
	Temperature	Current Temperature
	°C /°F	Set the temperature unit as Celsius or Fahrenheit
	Working Time	Cumulative usage time
	Error Info.	Show the error info., Please refer to the list of Error Info.

VII. List of error messages

Error info.	Reason	Solution
Temperature detector error	The thermistor is broken or the thermal wire is disconnected	Replace thermistor or thermal wire
LED overheat	The ambient temperature is too high	turn off the machine
CPU-B error	The signal cable is loose or the sub-board CPU crashes	Replace the signal cable or replace CPU
Color wheel reset error	Color wheel detection is abnormal	Replace the color wheel Hall board or Hall wire
Gobo wheel reset error	Gobo wheel detection is abnormal	Replace the gobo wheel Hall board or Hall wire
Gobo rotation reset error	Gobo auto-rotating wheel detection is abnormal	Replace the pattern auto-rotating board Hall board or Hall wire
Fan 1 error	The left fan does not rotate	Replace the left fan
Fan 2 error	The right fan does not rotate	Replace the right fan

Error info.	Reason	Solution
Temperature detector error	The thermistor is broken or the thermal wire is disconnected	Replace thermistor or thermal wire
LED overheating	The ambient temperature is too high	Turn off the lamp
CPU-B error	The DMX is loose or the CPU of the sub-board crashes	Replace DMX cable or CPU
Color wheel rotation reset error	Detect color wheel abnormal	Replace the color gobo hall PCB or hall wire
Gobo wheel rotation reset error	Detect gobo wheel abnormal	Replace the gobo wheel hall PCB or hall wire
Gobo rotation reset error	Detect gobo rotation abnormal	Replace the gobo hall PCB or hall wire
Fan 1 error	Left fan does not work	Change the left fan
Fan 2error	Right fan does not work	Change the right fan

VIII. How to operation

The device can be controlled in the following two ways:

1. Master/slave build-in program control

- ①Connect the device(s) with DMX cable.
- ②Master/slave mode will be automatically activated.
- ③Specify host mode, and set the other units to SLAVE and all slaves will follow(Refer to Display Functions table for SLAVE mode details)

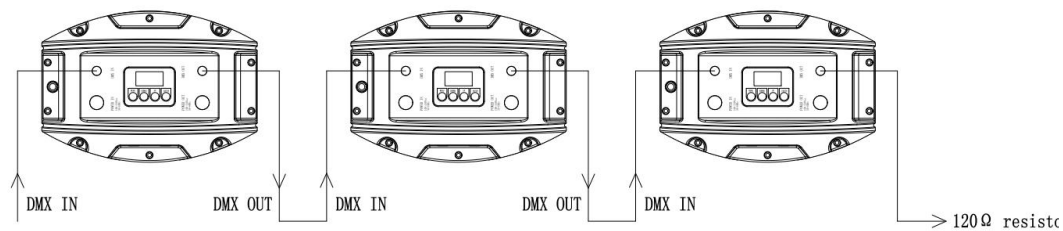
2. DMX controller

IX. DMX control

Press **MENU** to access the “DMX Address”. Now use **DOWN / UP** to select the menu item DMX Address(1-512) and confirm with **ENTER**, then the device can receive the signal accordingly.

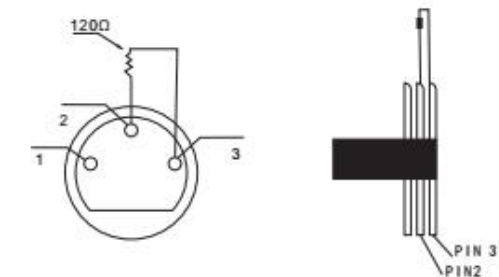
“Address 001” is the initial factory setting. After the address code is set, press and hold down the “**ENTER**” to save.

Connect the female 3-pin XLR connector of the DMX cable to the DMX input (male 3-pin socket) of the next DMX device. In the same way, connect the DMX output of this device to the DMX input of the next device and repeat until all devices have been connected.



DMX-512 Connection must be equipped with terminal device (Loop connection)

During the installation process, if the signal line is laid a long distance, or in the noisy environment, such as KTV or Dancing Hall, the DMX terminal (loop connection) should be equipped, in order to avoid the turbidity of digital control signals caused by electrical noise. The DMX terminator consists of a simple XLR connector with pin 2 and 3 connected to a 120 Ω resistor. Please insert the terminal into the XLR output port of the last device. Please refer to the following diagram.



X. DMX channel

DMX Channel (6CH)

CH	Value			Function
1CH	000	-	255	Total dimmer 0 -100%
2CH	000	-	007	LED on
	008	-	015	LED off
	016	-	131	Fixed strobe 0-20Hz
	132	-	139	LED on
	140	-	181	Strobe, fast on and slow off
	182	-	189	LED on
	190	-	231	Strobe, fast off and slow on
	232	-	239	LED on
	240	-	247	lightning strobe
3CH	248	-	255	LED on
	000	-	009	White
	010	-	019	Red
	020	-	029	Green
	030	-	039	Blue
	040	-	049	Yellow
	050	-	059	Purple
	060	-	069	Red+White
	070	-	079	Red+Green
	080	-	089	Green+Cyan
	090	-	099	Cyan+Yellow
	100	-	109	Yellow+Purple
	110	-	119	Purple+White
	120	-	185	Color changing counterclockwise(Fast to slow)
	186		189	Stop
	190		255	Color changing clockwise(Slow to fast)

4CH	000	-	009	Water wave gobo 1 stop
	010	-	129	Water wave gobo 1 rotate clockwise, fast to slow
	130	-	135	Stop
	136	-	255	The water wave gobo 1 rotate counterclockwise, slow to fast
5CH	000	-	009	Water wave gobo 2 stop
	010	-	129	The water wave gobo 2 rotate clockwise, fast to slow
	130	-	135	Stop
	136	-	255	The water wave gobo 2 rotate counterclockwise, slow to fast
6CH	000	-	199	No function
	200	-	209	Reset
	210	-	255	No function

XI. Product maintenance and cleaning

Please pay attention to the following points when testing this product:

★All screws and parts for installing the product must be tightly connected and not rusty;

★The housing, lens, fixing parts and installation location (such as ceiling, hanger, truss, etc.) cannot be deformed;

★The power cord must not be damaged in any way.

The installation and use of the product must be carried out by trained professional and technical personnel, and safety hazards must be eliminated.

Note: Please unplug the power cable before doing product maintenance!

It is very important to keep machine clean and dry. Before unscrewing the housing or start maintenance work, you should keep the machine power off and unplug. Keep cleaning regularly can make the light have max brightness and also can extend its service life. We suggest to use professional glass cleaner and clean it with a soft cloth. Alcohol or chemical solvents are not permitted under any circumstances. The interior of the machine and the fan should be cleaned at least once every season by using a vacuum cleaner.