ST-19MHY

USER MANUAL

CE RoHS ✔

At first,thank you for purchasing the device.For the sake of safety and regular operation of this projector,please read this manual carefully before using and operating it in order to avoid any personal injury or damage to the device.

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP！

CAUTION：Keep this equipment away from rain, moisture and liquids.

SAFETY INSTRUCTIONS

Every person involved with the installation,
operation & maintenance of this equipment should：
●Be competent
●Follow the instructions of this manual

CAUTION：Take care using this equipment！
high voltage-risk of electric shock！！

Before your initial start-up, please make sure that there is no damage caused during transportation. Should there be any, consult your dealer and do not use the equipment.

To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.

Please note that damages caused by user modifications to this equipment are not subject to warranty.

ATTENTION:
DANGER OF LIFE! RISK OF BURNS!
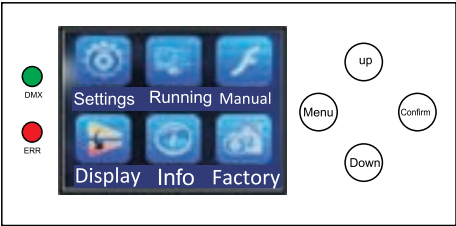RISK OF FIRE! RISK OF SHORT CIRCUIT!

CAUTION:
DO NOT OPEN THE HOUSING
SHOCK HAZARD

IMPORTANT:
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unatu horized modification to the equipment.

1、Display panel andKey definition

Menu key: **Select function**
Up key: **parameter increment**
Down key: **Decreasing parameters**
Confirmation key: **Confirm and save**

2、Menu Function

After the machine is reset, press the menu key and enter the main menu (exit after 30 seconds on the main menu interface), see the main menu function table (5 main menu options); select the main menu up or down, enter the function parameters of each menu, and then press the confirmation key to save the current function parameters (have the power loss memory after saving).

primary menu	submenu	Menu function description
1、 System Settings	1、 DMX address	Change DMX address code (address code optional range 001-512),confirm key save,default 001.
	2、 encoder	Up or down to modify the encoder on / off,confirm the key to save,turn on by default.
	3、 X reversal	Modify up or down X reverse on / off,confirm the key is saved,off by default.
	4、 Y reversal	Modify up or down Y reverse on / off,confirm the key is saved,off by default.
	5、Improve thsetting	
2、 running mode	1、 running mode	Up or down select running mode DMX / voice / automatic,confirm key save,default DMX.。
	2channelselection	Select channel CH24 / CH32 up or down,confirm key save,default CH24.
3、 manual control	1、 X	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 000.
	2、 X fine tuning	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 000.
	3、 Y	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 128.
	4、 Y fine tuning	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 000.
	5、 XY Speed	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 000.
	6、	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 000.
	7、	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 255.
	8、	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 000.
	9、 RGBW	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 000.
	10、 RGBW-red	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 255.
	11、 RGBW-green	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 255.
	12、 RGBW-blue	Modify parameter values up or down (adjustable range 000-255),confirm key save,default255.
	13、 RGBW-white	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 255.
	14、 RGBW-	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 000.
	15、 RGBW-speed	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 000.
	16、 RGB-strobe	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 000.
	17、 RGB -	Modify parameter values up or down (adjustable range 000-255),confirm key save,default 255.

	18、 RGB-green	Modify parameter values up or down (adjustable range 000-255),confirm key save, default 255.	
	19、 RGB-blue	Modify parameter values up or down (adjustable range 000-255),confirm key save, default 255.	
	20、 RGB-mode	Modify parameter values up or down (adjustable range 000-255),confirm key save, default 000.	
	21、 RGB-speed	Modify parameter values up or down (adjustable range 000-255),confirm key save, default 000.	
	22、	Modify parameter values up or down (adjustable range 000-255),confirm key save, default 000.	
	23、	Modify parameter values up or down (adjustable range 000-255),confirm key save, default 000.	
	24、 Reset	Modify parameter values up or down (adjustable range 000-255),confirm key save, default 000.	
4、Display settings	1、language selection	Select Chinese / EN (English) up or down, confirm the key to save, default Chinese.	
	2、 Inverted setting	Select off / On up or down, confirm that the key is saved and close by default.	
	3、Screen guarantee Settings		
	4、software version	06MH	
5、Factory setting	Show:Please enter the password! Change up or down to 138, and then press the confirm key to enter the factory setting.	1、 X-axis calibration	Modify parameter values up or down (adjustable range 000-255), confirm key save, default 128
		2、 Y-axis calibration	Modify parameter values up or down (adjustable range 000-255), confirm key save, default 128.
		3、 Zoom calibration	Modify parameter values up or down (adjustable range 000-255), confirm key save, default 128.
		4、 red	Modify the red bead current (032-255), confirm the key is saved, default 230.
		5、 green	Modify the gren bead current (032-255), confirm the key is saved, default 230.
		6、 blue	Modify the blue bead current (032-255), confirm the key is saved, default 230.
		7、 white	Modify the white bead current (032-255), confirm the key is saved, default 230.
		8、X current	Modify parameter values up or down (adjustable range 000-007), confirm key save, default 004.
		9、X speed	Modify parameter values up or down (adjustable range 000-007), confirm key save, default 000.
		10、Y current	Modify parameter values up or down (adjustable range 000-007), confirm key save, default 004.
		11、Y speed	Modify parameter values up or down (adjustable range 000-007), confirm key save, default 000.
		12、 Logo	Select 000 / 001 up or down, confirm key save, default 000.
		13、temperature	Modify the temperature parameter up or down (range 045-075), confirm key save, default 065
		14、 Temperature-fan	Select off / on fan control up or down, confirm that the key is saved and turn off by default.
		15、 LED	LEDA-LEDB

3, Master-slave control

There are two or more identical lamps connected by DMX three-core signal lines. All lamps are set to any address code of A001~A512, any one is set as the host, and other lamps are slaves. All slave displays do not flash. When adjusting the gradient, pulse, pulse, sound control and self-propelled effects with the host, all slave synchronous gradient, pulse, jump, sound control and self-propelled effects.

Special attention: 1. Only one host can be set up in a group of lamps. If there are multiple hosts, all lamps will flash and not be synchronized .
2. All lamps must work only when the master-slave machine is turned off when the DMX512 console is turned off.

4, DMX512 console

After powering on, set the address code of all lamps, and then connect all lamps to the DMX512 console in parallel with a three-core signal line, and the address code will stop flashing, indicating that the DMX512 console signal has been sent to the lamp. According to the instructions of each channel, use the DMX512 console to control the relevant functions .

24Channel description

CH	Value	function
1	000-255	x-axis
2	000-255	x axis fine-tuning
3	000-255	Y-axis
4	000-255	Y axis fine-tuning
5	000-255	XY speed
6	000-255	focusing
7	000-255	dimmer
8	000-255	stroboe（Main light and auxiliary light）
9	000-255	stroboe（Main light）
10	000-255	R
11	000-255	G
12	000-255	B
13	000-255	W
14	000-255	mode
15	000-255	speed
16	000-255	stroboe（auxiliary light）
17	000-255	R
18	000-255	G
19	000-255	B
20	000-255	mode
21	000-255	speed
22	000-255	background colour
23	000-255	Background color total dimming
24	000-255	reset：The parameter value is reset at 250-255,The console parameter value must be pulled below 10 and then pushed to 250-255 to be useful. The parameter value is useless at 000-249 and cannot be reset.

32Channel description

CH	Value	function
1	000-255	x-axis
2	000-255	x axis fine-tuning
3	000-255	Y-axis
4	000-255	Y axis fine-tuning
5	000-255	XY speed
6	000-255	focusing
7	000-255	dimmer
8	000-255	stroboe（Main light and auxiliary light）
9	000-255	stroboe（Main light）
10	000-255	R1
11	000-255	G1
12	000-255	B1
13	000-255	W1
14	000-255	R2
15	000-255	G2
16	000-255	B2
17	000-255	W2
18	000-255	R3
19	000-255	G3
20	000-255	B3
21	000-255	W3
22	000-255	mode
23	000-255	speed
24	000-255	stroboe（auxiliary light）
25	000-255	R
26	000-255	G
27	000-255	B
28	000-255	mode
29	000-255	speed
30	000-255	background colour
31	000-255	Background color total dimming
32	000-255	reset：The parameter value is reset at 250-255,The console parameter value must be pulled below 10 and then pushed to 250-255 to be useful. The parameter value is useless at 000-249 and cannot be reset.

5, technical parameters:

Voltage: AC100~240V 50/60HZ

Lamp beads: 19pcs four-in-1 LED beads

Control mode: DMX512, self-propelled, master-slave, Sound-activated,RDM.
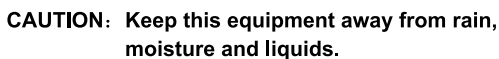
Channel: CH24Channel,CH32Channel.

Dimming: 32bit 0~100% linear dimming

Features: Dyeing+Explosion+focus

Strobe frequency: 1~30HZ

Connection method: DMX512 input and output / power input and output.

IP rating: IP20

CAUTION：Keep this equipment away from rain, moisture and liquids.

Attention

◆ Keep the voltage of the power supply with the master light
◆ Do not connect with other electric cable and the DMX512 signal cable
◆ To ensure the earthing conductor of the switch well before connecting with AC110v~240v
◆ The earthing conductor is the yellow and green．
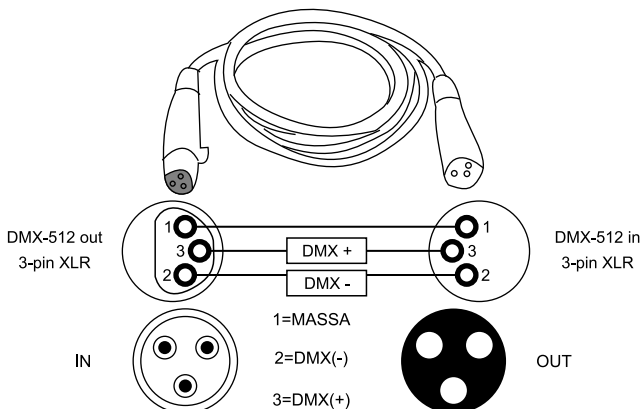◆ When you move or install,to avoid the metal to knock the light

ATTENTION:
DANGER OF LIFE! RISK OF BURNS!
RISK OF FIRE! RISK OF SHORT CIRCUIT!

Notice:

●Be sure to follow figures 2 & 3 when making your own cables.
●Do not connect the cable`s shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR`s outer casing.
●Grounding the shield could cause a short circuit and erratic behaviour.

DMX Signal Connection

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female（OUT）	5-Pin XLR Male（IN）
Ground/Shield	Pin 1	Pin 1
Data Compliment（-signal）	Pin 2	Pin 2
Data True（+signal）	Pin 3	Pin 3
Not Used		Pin 4-Do Not Used
Not Used		Pin 5-Do Not Used

DMX-512 out
3-pin XLR

DMX +
DMX -

DMX-512 in
3-pin XLR

1=MASSA
2=DMX(-)
3=DMX(+)

IN

OUT

MAINTENANCE

Attention:

※ Periodical to maintain the light

※ Check the screw of the spare parts in order to use well

※ Clearing the dust and fragments of the inner light,
   to keep the inner par light clearly

※ Clearing the lens

※ More dust, smoke and granular can cause appearance of the
   light corrosively, even cause overheated to damage equipment

※ Attention:Before take the light apart, please cut the power source.

CAUTION：Take care using this equipment！
         high voltage–risk of electric shock！！

Clearing

※ Cutting the power source when the light is cool, to move the cover of the light

※ Using the vacuum cleaner or the gas from air compressor to remove the dust
   of the appearance of the light

※ The lens need clearly once every week, otherwise to reduce the bright.

※ The fans need clear once every month, to promise the cool effect.

※ Clearing the lens must be take care, because the surface of the lens is easy to
   damage and cutting, and do not use the liquid to clean

※ The PCB do not use the liquid to clean, must be keep it dry, to avoid short circuit