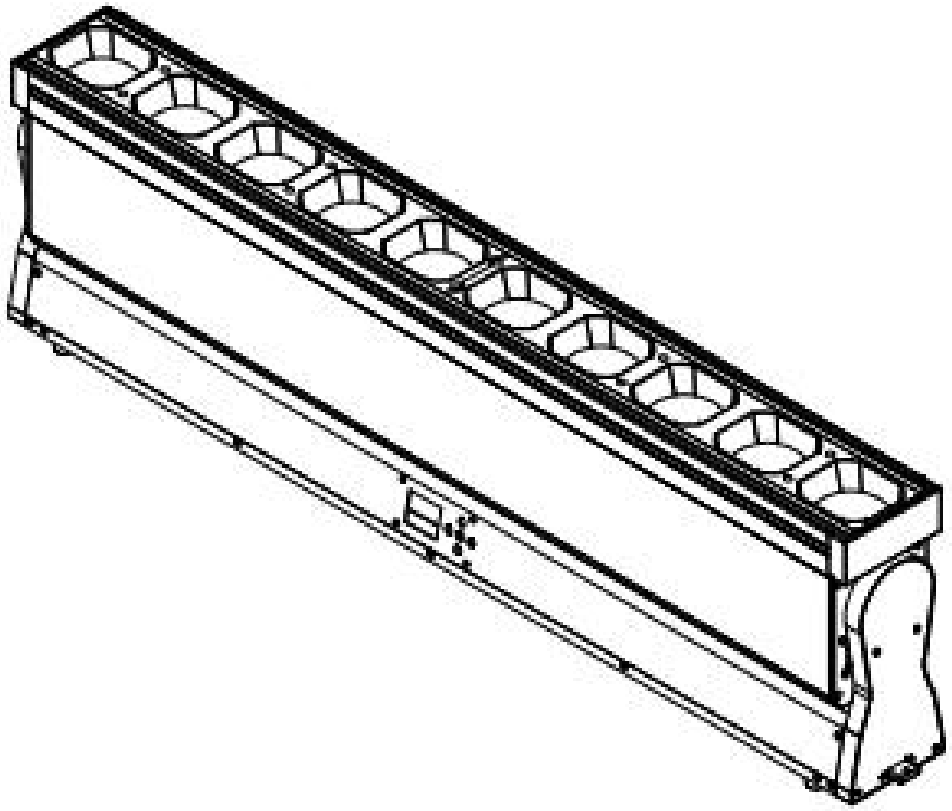
lighting PLUS

User manual



MH600

Please read the instructions carefully before use

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STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

1.Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

•Unpack and check carefully there is no transportation damage before using the unit.

•Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

•It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

•The unit is for indoor use only. Use only in a dry location.

•The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.

•Disconnect main power before replacement or servicing.

•Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

•Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

•Maximum ambient temperature is Ta: 40℃. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85℃. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

•the event of serious operating problem, stop using the unit immediately.Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

•DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

•To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

•The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

•There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

•The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.
•The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

2.Technical Specifications

Input Voltage: 100-240V,50/60Hz

Light Source: wash:10*60W RGBW 4in1

Strobe:96x3W cool White LED/96x3w warm white LED/96x0.5W RGB LED

Light source life: 50000 hours

power consumption:1000w

Zoom angle: 2.8-31°

Beam angle: 5-46°

Tilt:202°

Fixed lock

Dimmer:0-100%(16bit)

Strobe:1-20Hz

IP Rate: IP20

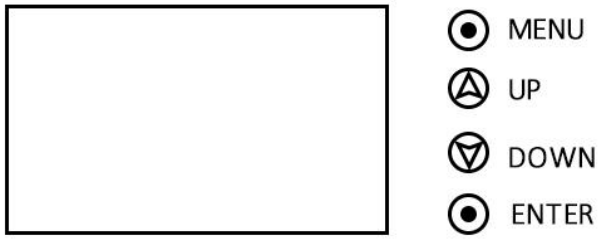
DMX Channels: 17/27/99/108/168CH

Operate mode: Master/Slave,Auto,Sound active,DMX512,RDM

W:18.8KG

Dimension:1002*115*268mm

3.Control Menu



Menu Operation

On the base of the control panel offers a number of features, such as setting DMX fixture address, switch the lamp, run the test program, the mode selection.

MENU	Dmx Address	001-512		
	Fixture	Channel mode	17CH/27CH/99CH/108CH/168CH	
		Run Mode	DMX/Auto	
		Tilt Invert	Close/Open	
		Dimmer Fast	Close/Open	
	Manual	Tilt	000-255	
		Tilt Fine	000-255	
		Zoom	000-255	
		Dimmer	000-255	
		……	000-255	
	Information	Time	Current Time	00000H
			Total Time	00000H
			Power Cunt	0
		Sensor	Tilt	Norm/Error
			Zoom1	Norm/Error
			Zoom2	Norm/Error
			Temp	Norm/Error
		Temperature	Head Temp	000℃
		Software Version	Pannel	Vx.xx
			Dimmer	Vx.xx
	Factory	Password	156	
		Tilt	127	
		Zoom1	127	
		Zoom2	127	
		Red	0-255	
		Green	0-255	
		Blue	0-255	
		White	0-255	
	Fixture Reset	Motor Reset	Run/OFF	
		Factory	Run/OFF	
	Display	Language	EN/CH	
		Display Flip	No/Yes	
		Display Mode	60s/Show	

4.DMX Channels

17CH Mode

Channel	Function	DMX value	Details
CH1	Tilt	0 - 255	Tilt
CH2	Tilt Fine	0 - 255	Tilt Fine
CH3	Zoom	0 - 255	zoom
CH4	Dimmer	0 - 255	0-100%line dimmer
CH5	Wash STROBE	0 - 255	Wash STROBE
CH6	Line-W STROBE	0 - 255	Line-W STROBE
CH7	Line- RGB STROBE	0 - 255	Line- RGB STROBE
CH8	SPECIAL FUNCTION	0 - 255	SPECIAL FUNCTION
CH9	Wash-Red	0 - 255	red
CH10	Wash-Green	0 - 255	green
CH11	Wash-Blue	0 - 255	blue
CH12	Wash-White	0 - 255	white
CH13	Line-CW	0 - 255	Line-CW
CH14	Line-WW	0 - 255	Line-WW
CH15	Line-red	0 - 255	Line-red
CH16	Line-Green	0 - 255	Line-Green
CH17	Line-Blue	0 - 255	Line-Blue

27 CH Mode

Channel	Function	DMX value	Details
CH1	Tilt	0 - 255	Tilt
CH2	Tilt Fine	0 - 255	Tilt Fine
CH3	Zoom	0 - 255	zoom
CH4	Dimmer	0 - 255	0-100% line dimmer
CH5	Wash STROBE	0 - 255	Wash STROBE
CH6	Line-W STROBE	0 - 255	Line-W STROBE
CH7	Line- RGB STROBE	0 - 255	Line- RGB STROBE
CH8	SPECIAL FUNCTION	0 - 255	SPECIAL FUNCTION
CH9	Wash-Red	0 - 255	red
CH10	Wash-Green	0 - 255	green
CH11	Wash-Blue	0 - 255	blue
CH12	Wash-White	0 - 255	white
CH13	Wash- CTO	0 - 255	Wash- CTO

CH14	Wash-Color macro	0 - 255	Wash-Color macro
CH15	Wash-Built-in effects	0 - 255	Wash-Built-in effects
CH16	Wash-Built-in effects speed	0 - 255	Wash-Built-in effects speed
CH17	Line-CW	0 - 255	Line-CW
CH18	Line-WW	0 - 255	Line-WW
CH19	Line -CTO	0 - 255	Line -CTO
CH20	Line-Built-in effects	0 - 255	Line-Built-in effects
CH21	Line-Built-in effects speed	0 - 255	Line-Built-in effects speed
CH22	Line-red	0 - 255	Line-red
CH23	Line-Green	0 - 255	Line-Green
CH24	Line-Blue	0 - 255	Line-Blue
CH25	LINE_RGB Color macro	0 - 255	LINE_RGB Color macro
CH26	LINE_RGB Built-in effects	0 - 255	LINE_RGB Built-in effects
CH27	Line- RGB Built-in effects speed	0 - 255	Line- RGB Built-in effects speed

99 CH Mode

Channel	Function	DMX value	Details
CH1	Tilt	0 - 255	Tilt
CH2	Tilt Fine	0 - 255	Tilt Fine
CH3	Zoom	0 - 255	zoom
CH4	Dimmer	0 - 255	0-100% line dimmer
CH5	Wash STROBE	0 - 255	Wash STROBE
CH6	Line-W STROBE	0 - 255	Line-W STROBE
CH7	Line- RGB STROBE	0 - 255	Line- RGB STROBE
CH8	SPECIAL FUNCTION	0 - 255	SPECIAL FUNCTION
CH9	Wash-Red 1	0 - 255	Red 1
CH10	Wash-Green 1	0 - 255	Green 1
CH11	Wash-Blue 1	0 - 255	Blue 1
CH12	Wash-White 1	0 - 255	White 1
CH13	Wash-Red 2	0 - 255	Red 2
CH14	Wash-Green 2	0 - 255	Green 2
CH15	Wash-Blue 2	0 - 255	Blue 2
CH16	Wash-White 2	0 - 255	White 2
……	……	……	……
CH45	Wash-Red 10	0 - 255	Red 10
CH46	Wash-Green 10	0 - 255	Green 10

CH47	Wash-Blue 10	0 - 255	Blue 10
CH48	Wash-White 10	0 - 255	White 10
CH49	Line W-CW 1	0 - 255	Line W-CW 1
CH50	Line W- WW 1	0 - 255	Line W- WW 1
CH51	Line W-CW 2	0 - 255	Line W-CW 2
CH52	Line W- WW 2	0 - 255	Line W- WW 2
……	……	……	……
CH95	Line W-CW 24	0 - 255	Line W-CW 24
CH96	Line W- WW 24	0 - 255	Line W- WW 24
CH97	Line-red	0 - 255	Line-red
CH98	Line-Green	0 - 255	Line-Green
CH99	Line-Blue	0 - 255	Line-Blue

108CH Mode

Channel	Function	DMX value	Details
CH1	Tilt	0 - 255	Tilt
CH2	Tilt Fine	0 - 255	Tilt Fine
CH3	Zoom	0 - 255	zoom
CH4	Dimmer	0 - 255	0-100% line dimmer
CH5	Wash STROBE	0 - 255	Wash STROBE
CH6	Line-W STROBE	0 - 255	Line-W STROBE
CH7	Line- RGB STROBE	0 - 255	Line- RGB STROBE
CH8	SPECIAL FUNCTION	0 - 255	SPECIAL FUNCTION
CH9	Wash-Red 1	0 - 255	Red 1
CH10	Wash-Green 1	0 - 255	Green 1
CH11	Wash-Blue 1	0 - 255	Blue 1
CH12	Wash-White 1	0 - 255	White 1
CH13	Wash-Red 2	0 - 255	Red 2
CH14	Wash-Green 2	0 - 255	Green 2
CH15	Wash-Blue 2	0 - 255	Blue 2
CH16	Wash-White 2	0 - 255	White 2
……	……	……	……
CH45	Wash-Red 10	0 - 255	Red 10
CH46	Wash-Green 10	0 - 255	Green 10
CH47	Wash-Blue 10	0 - 255	Blue 10
CH48	Wash-White 10	0 - 255	White 10

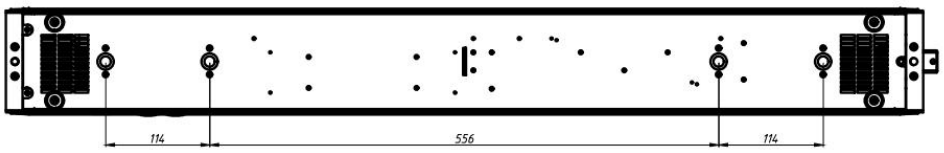
CH49	Line W-CW 1	0 - 255	Line W-CW 1
CH50	Line W- WW 1	0 - 255	Line W- WW 1
CH51	Line W-CW 2	0 - 255	Line W-CW 2
CH52	Line W- WW 2	0 - 255	Line W- WW 2
……	……	……	……
CH71	Line W-CW 12	0 - 255	Line W-CW 12
CH72	Line W- WW 12	0 - 255	Line W- WW 12
CH73	Line-RGB -red 1	0 - 255	Line-red 1
CH74	Line-RGB -Green 1	0 - 255	Line-Green 1
CH75	Line-RGB -Blue 1	0 - 255	Line-Blue 1
CH76	Line-RGB -red 2	0 - 255	Line-red 2
CH77	Line-RGB -Green 2	0 - 255	Line-Green 2
CH78	Line-RGB -Blue 2	0 - 255	Line-Blue 2
……	……	……	……
CH106	Line-RGB -red 12	0 - 255	Line-red 12
CH107	Line-RGB -Green 12	0 - 255	Line-Green 12
CH108	Line-RGB -Blue 12	0 - 255	Line-Blue 12

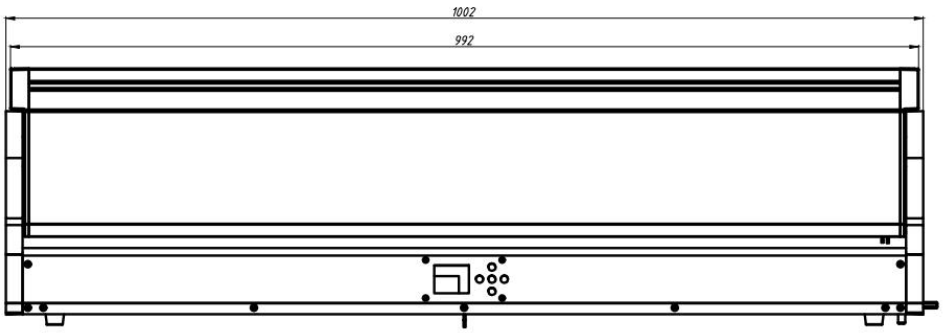
168CH Mode

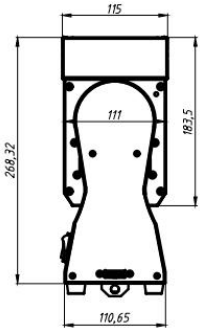
Channel	Function	DMX value	Details
CH1	Tilt	0 - 255	Tilt
CH2	Tilt Fine	0 - 255	Tilt Fine
CH3	Zoom	0 - 255	zoom
CH4	Dimmer	0 - 255	0-100% line dimmer
CH5	Wash STROBE	0 - 255	Wash STROBE
CH6	Line-W STROBE	0 - 255	Line-W STROBE
CH7	Line- RGB STROBE	0 - 255	Line- RGB STROBE
CH8	SPECIAL FUNCTION	0 - 255	SPECIAL FUNCTION
CH9	Wash-Red 1	0 - 255	Red 1
CH10	Wash-Green 1	0 - 255	Green 1
CH11	Wash-Blue 1	0 - 255	Blue 1
CH12	Wash-White 1	0 - 255	White 1
CH13	Wash-Red 2	0 - 255	Red 2
CH14	Wash-Green 2	0 - 255	Green 2
CH15	Wash-Blue 2	0 - 255	Blue 2
CH16	Wash-White 2	0 - 255	White 2

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CH45	Wash-Red 10	0 - 255	Red 10
CH46	Wash-Green 10	0 - 255	Green 10
CH47	Wash-Blue 10	0 - 255	Blue 10
CH48	Wash-White 10	0 - 255	White 10
CH49	Line W-CW 1	0 - 255	Line W-CW 1
CH50	Line W- WW 1	0 - 255	Line W- WW 1
CH51	Line W-CW 2	0 - 255	Line W-CW 2
CH52	Line W- WW 2	0 - 255	Line W- WW 2
.....	.....	.....	.....
CH95	Line W-CW 24	0 - 255	Line W-CW 24
CH96	Line W- WW 24	0 - 255	Line W- WW 24
CH97	Line-RGB -red 1	0 - 255	Line-red 1
CH98	Line-RGB -Green 1	0 - 255	Line-Green 1
CH99	Line-RGB -Blue 1	0 - 255	Line-Blue 1
CH100	Line-RGB -red 2	0 - 255	Line-red 2
CH101	Line-RGB -Green 2	0 - 255	Line-Green 2
CH102	Line-RGB -Blue 2	0 - 255	Line-Blue 2
.....	.....	.....	.....
CH166	Line-RGB -red 24	0 - 255	Line-red 24
CH167	Line-RGB -Green 24	0 - 255	Line-Green 24
CH168	Line-RGB -Blue 24	0 - 255	Line-Blue 24

5.Dimension







6.Trouble Shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on

PCB of the unit or the previous one.

4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motors drive IC on the PCB might be out of condition

7.Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

Clean with soft cloth using normal glass cleaning fluid.

Always dry the parts carefully.

Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.