

MH-60 LED Beam



User manual

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 $T_a: 40^{\circ}\text{C}$. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85°C . 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.

- ⊠ In 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.

⚠ DO NOT open the unit within five minutes after switching off.

⚠ 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

Light Sources: 60w osram led

Beam Angle:4.5°

Power Voltage: AC 100-240V, 50/60Hz

Power consumption : 80w

Dimension: **21*15*27cm**

Packing: 480*320*440mm (2pcs)

Net Weight: 4Kgs;Gross Weight: 5Kgs

Control

DMX Channel: 11/16 Channel

Control Modes: DMX512,auto run,master-slave,music

Pan/Tilt

Pan/Tilt: 540°/ 270°

Pan/Tilt Resolution: 8/16 bit

Construction

Display: Digital Display

Data In/Out socket: 3-pin XLR sockets

Protection Rating: IP20

Features

Dimmer: 0~100% smooth dimming

Variable strobe effects

Fast, quiet operation and flicker free

3. How To Control The Unit

The DMX512 is widely used in intelligent lighting control, with a DMX 512 controller. connect several lights together, dmx in and dmx out, 3 pin XLR connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

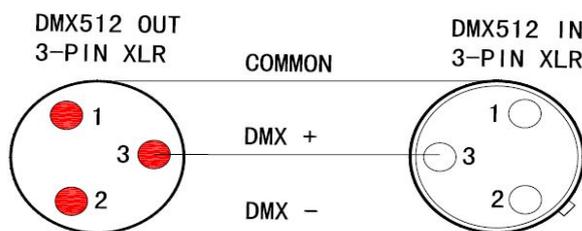
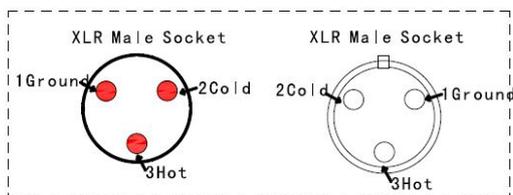


Figure2



XLR Pin Configuration
pin1=Ground
pin2=Data Compliment (negative)
pin3=Data true (positive)

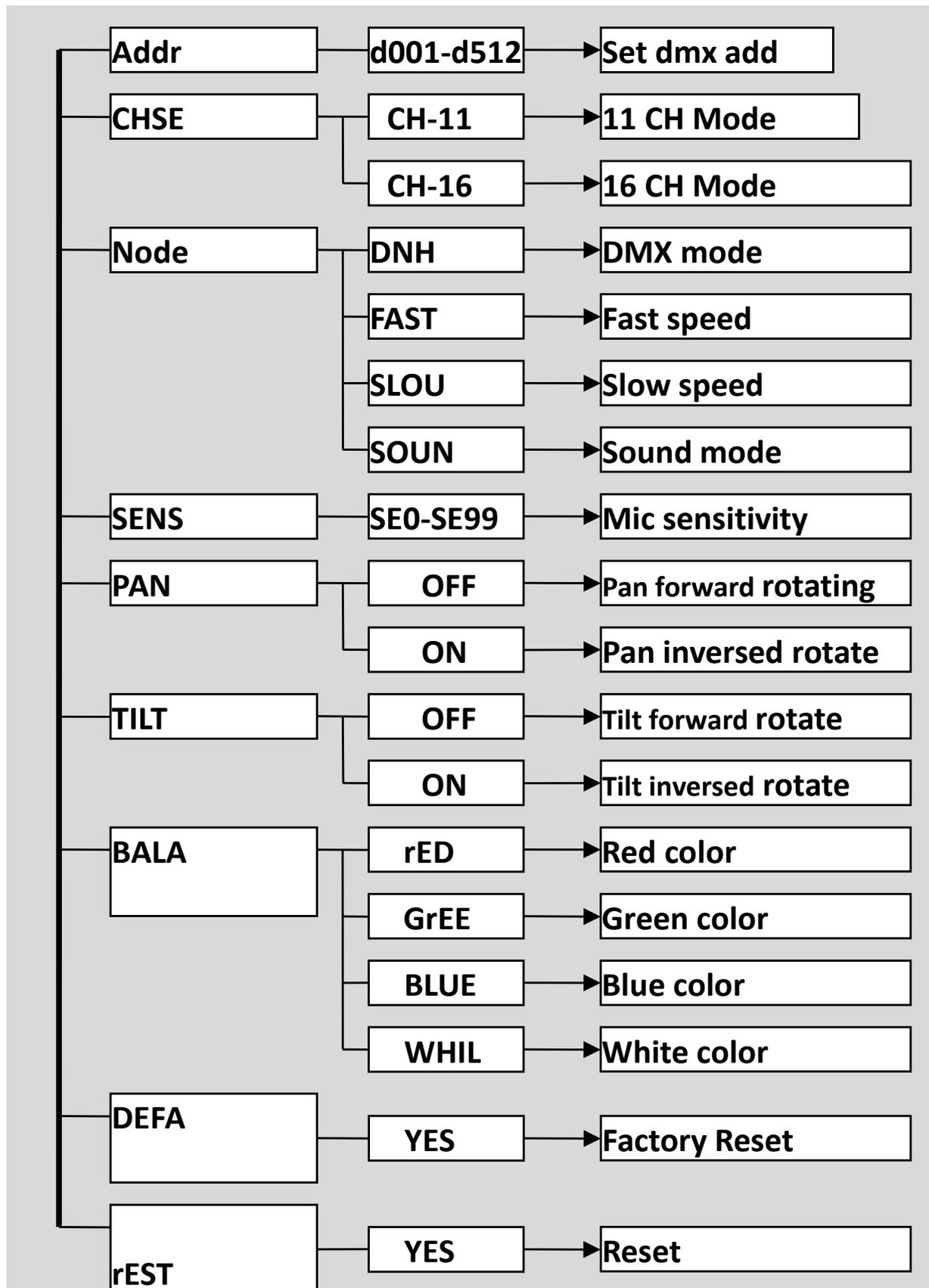
Display:

MENU To select the programming functions
 DOWN To go backward in the selected functions
 uP To go forward in the selected functions
 ENTER To confirm the selected functions

Set DMX Address Code

- 1 Press "**Menu**" to "Set DMX Address", and press "**ENTER**" keys to enter into
- 2 Show "Set DMX Address DMX Address:001", Press the "**UP and DOWN**" keys to amended
- 3 Press "**ENTER**" keys to save and Exit, Press the "**MENU**" Keys does not save and Exit

Menu



DMX channel 11/16 Channels

16 DMX channels mode

CH	Function	Detail
1	Pan	0-255 Value increase,rotate forward; value decrease,rotate inversed
2	Pan fine-tuning	0-255 Value increase,rotate forward; value decrease,rotate inversed
3	Tilt	0-255 Value increase,rotate forward; value decrease,rotate inversed
4	Tilt fine-tuning	0-255 Value increase,rotate forward; value decrease,rotate inversed
5	Motor speed	0-255 :pan,Motor working speed
6	Strobe	1-255; Strobe,From slow to fast
7	Dimmer	0-255 :0-100% dimming
8	R Dimmer	0-255; 0-100% Red dimming
9	G Dimmer	0-255; 0-100% Green dimming
10	B Dimmer	0-255; 0-100% Blue dimming
11	W Dimmer	0-255; 0-100% White dimming
12	0-10	Enable other channels
	11-127	Color changing
	128-160	Color jump changing
	161-200	Color gradual changing 1
	201-255	Color gradual changing 2
13	Built-in effect speed set	Color jump change,gradual changing,speed adjust.
14	Built-in effect	0-10,Enable other channels
		11-120,Built-in effect fast run
		121-244,Built-in effect slow run

		245-255,Music mode
15	Built-in effect speed set	Built-in effect speed ajustable
16	Reset	150-200;rest

DMX 11 Channels Mode

CH	Function	Detail
1	Pan	0-255 Value increase,rotate forward; value decrease,rotate inversed
2	Pan fine-tuning	0-255 Value increase,rotate forward; value decrease,rotate inversed
3	Tilt	0-255 Value increase,rotate forward; value decrease,rotate inversed
4	Tilt fine-tuning	0-255 Value increase,rotate forward; value decrease,rotate inversed
5	Motor speed	0-255 :Pan,motor working speed
6	Strobe	1-255; Strobe,From slow to fast
7	Dimmer	0-255 :0-100% dimming,from dark to light
8	R Dimmer	0-255; 0-100% Red dimming
9	G Dimmer	0-255; 0-100% Green dimming
10	B Dimmer	0-255; 0-100% Blue dimming
11	W Dimmer	0-255; 0-100% White dimming

4. 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 motor's drive IC on the PCB might be out of condition.

5. 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.**