ACME®

DMX512

LINKABLE
STAND ALONE

Marvelous
Sound
Activation

VENOM

LED-460

User Manual

Please read the instructions carefully before use

Safety Introductions

⚠️ **WARNING**

> **Please read the instructions carefully which includes important information about the installation, operation and maintenance.**

- Please

  keep this User Manual for future consultation. If you sell the fixture to another user, be sure that they also receive this instruction booklet.
- Unpack and check carefully there is no transportation damage before using the fixture.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Disconnect main power before servicing and maintenance.
- Maximum ambient temperature is Ta : 40℃. Don't operate it where the temperature is higher than this.
- In the event of serious operating problem, stop using the fixture immediately. Never try to repair the fixture 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 connect the device to any dimmer pack.
- Do not touch any wire during operation and there might be a hazard of electric shock.
- To prevent or reduce the risk of electrical shock or fire, do not expose the fixture to rain or moisture.
- The housing must be replaced if they are visibly damaged.
- Do not look directly at the LED light beam while the fixture is on.
- There are no user serviceable parts inside the fixture. Do not open the housing or attempt any repairs by yourself. In the unlikely event your fixture may require service, please contact your nearest dealer.
- Due to the magnifying type lens, please keep the lens out of contact with direct sunlight. Direct sunlight can cause heat to build up inside of the unit, which will seriously damage unit.

> If using a 230Vac 50Hz power supply, do not connect in series more than 14 units, use another mains supply for the next 14 units.
>
> If using a 120Vac 60Hz power supply, do not connect in series more than 9 units, use another mains supply for next 9 units.

2. Technical Specifications

- Featuring 6 high-power 3W Tri-color LEDs.
- Each color of R, G, B, can be controlled individually.
- DMX 3/18 channels switchable.
- Smooth 0~100% dimming and variable strobe speeds.
- Three operation modes: DMX, Mater/Slave mode, Sound Active.
- Ideal for discotheques, clubs, bars, parties, Mobile DJs, ect.

- **Input Voltage:** AC100V~240V 50/60Hz
- **Power consumption:** 38.9W
- **Fuse**: T 6.3A
- **LED:** 6 x 3W Tri-color LEDs 30000hrs rated
- **Dimension:** 424 x 251 x 65 mm
- **Weight:** 3.8kgs
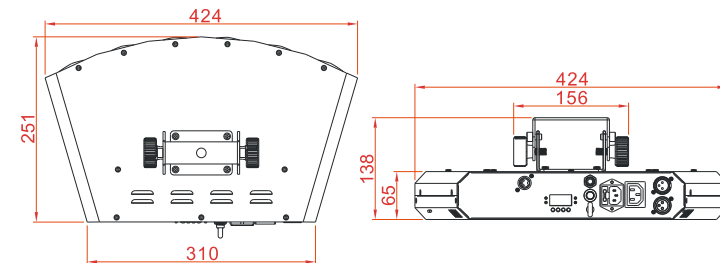
3. Installation

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. Always ensure 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 and has no one pass by or under it.

4.1Rear Panel
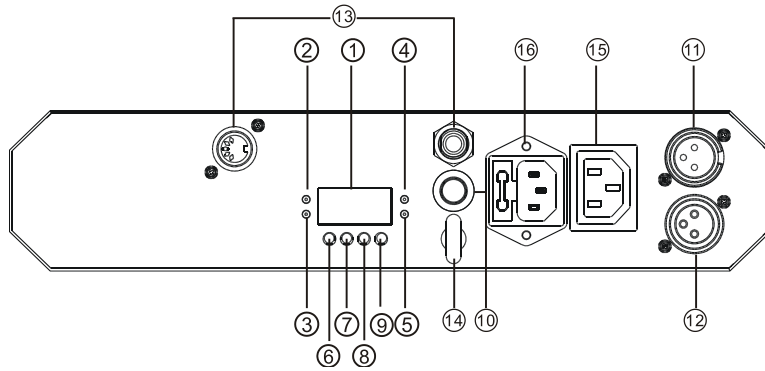
① **Display:** To show the various menus and the selected functions

LED:

② DMX	On	DMX input present
③ MASTER	On	Master Mode
④ SLAVE	On	Slave Mode
⑤ SOUND	Flashing	Sound activation

Button:

⑥ MENU	To select the programming functions
⑦ DOWN	To go backward in the selected functions
⑧ UP	To go forward in the selected functions
⑨ ENTER	To confirm the selected functions

⑩ **Microphone:** Receive music for the sound active.

⑪ **DMX input:** For DMX512 link, use 3/5-pin XLR plug cable to input DMX signal.

⑫ **output:** For DMX512 link, use 3/5-pin XLR plug cable to link the next unit.

⑬ **Only for remote control:** By connect to the CA-8 or CA-9 RTX to control the unit for Stand by, Function and Mode function.

⑭ **Safety Ring:** For attached the safety cable.

⑮ **Mains output:** Connect to supply mains power for the next unit.

⑯ **Mains input:** Connect to supply mains power.

4.2 Main Function

To select any functions, press **MENU** button until the required one is shown on the display. Select the function by **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the mode. Once the required mode has been selected, press **ENTER** button to setup or it will automatically return to the main functions without any change after idling 30 seconds. Back to the functions without any change press **MENU** button. The main functions are shown below:
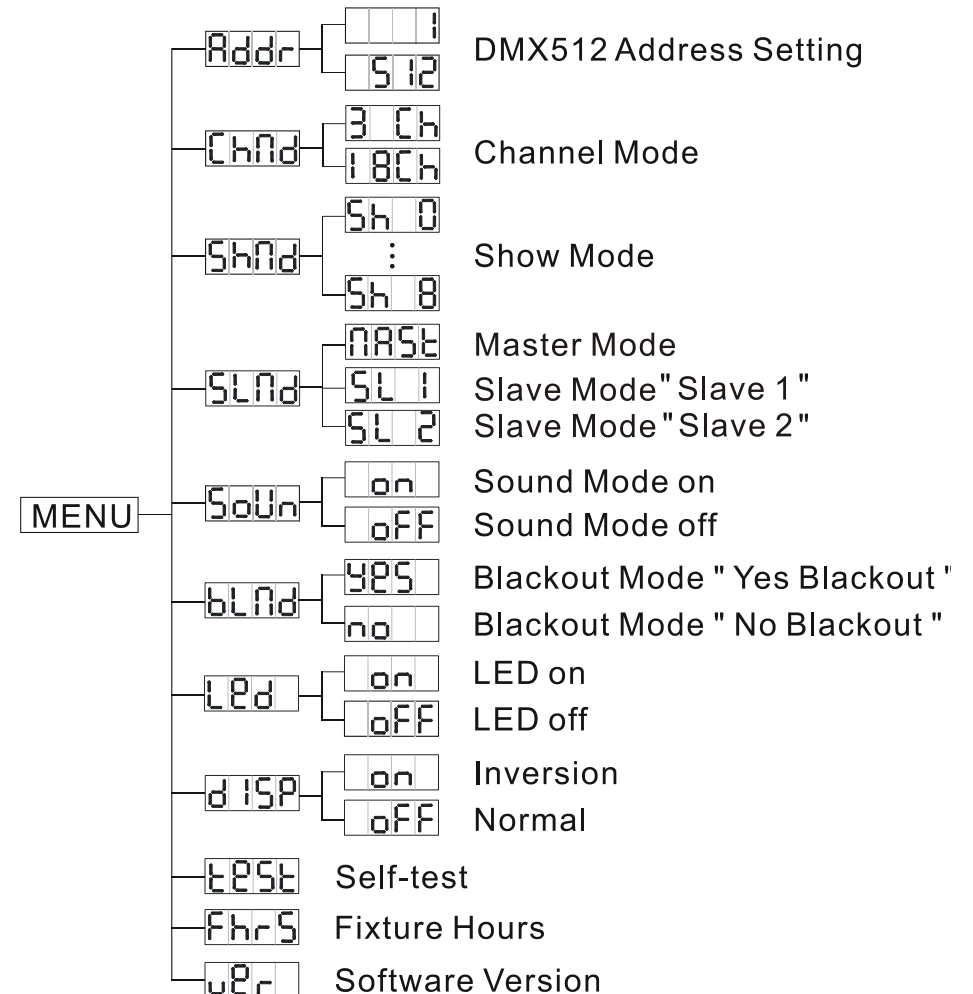
Addr DMX 512 Address Setting

Press the **MENU** button up to when the **Addr** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to change the DMX 512 address. Once the address has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 60 seconds. Back to the previous functions without any change press the **MENU** button.

ChNd Channel Mode

Press the **MENU** button up to when the **ChNd** is shown on the display. Pressing the **ENTER** button, Use the **DOWN** and **UP** button to select the **3Ch** (3 channels) or **18Ch** (18 channels) mode. Once selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 60 seconds. To go back to the functions without any change press the **MENU** button

ShNd Show Mode

Press the **MENU** button up to when the **ShNd** is shown on the display. Pressing the **ENTER** button, Use the **DOWN** and **UP** button to select the **Sh 0** (Random show) or **Sh 1** (show 1) or **Sh 2** (Show 2) or … or **Sh 8** (show8). Once selected, press the **ENTER** button to store or automatically exit menu mode without any change after 60 seconds. To go back to the functions without any change press the **MENU** button

SLNd Slave Mode

Press the **MENU** button up to when the **SLNd** is shown on the display. Pressing the **ENTER** button, Use the **DOWN** and **UP** button to select the **NASt** (master) or **SL 1** (slave 1) or **SL 2** (Slave 2) mode. Once selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 60 seconds. To go back to the functions without any change press the **MENU** button

SoUn Sound

Press the **MENU** button up to when the **SoUn** is shown on the display. Pressing the **ENTER** button, Use the **DOWN** and **UP** button to select the **on** (sound on) or **oFF** (sound off). Once selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 60 seconds. To go back to the functions without any change

press the **MENU** button

bLNd Blackout mode

Press the **MENU** button up to when the **bLNd** is shown on the display. Pressing the **ENTER** button, Use the **DOWN** and **UP** button to select the **YES** (blackout) or **no** (normal). Once selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 60 seconds. To go back to the functions without any change press the **MENU** button.

LEd LED display

Press the **MENU** button up to when the **LEd** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select **on** (display on) or **oFF** (display off) mode. Once selected, press the **ENTER** button to setup or exit menu mode without any change after 60 seconds. Back to the functions without any change press the **MENU** button again.

diSP Display Inverse

Press the **MENU** button until **diSP** is blinking on the display. Press the **ENTER** button to select **diSP** (normal) or **dSiP** (inverse). Back to the functions without any change press the **MENU** button.

tESt Self-Test

Press the **MENU** button up to when the **tESt** is blinking on the display. Pressing **ENTER** button and the unit will run the built-in programmer for self-test. To go back to the functions press the **MENU** button.

FhrS Fixture Hours

Press the **MENU** button up to when the **FhrS** is blinking on the display. Pressing **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button.

uEr Software version

Press the **MENU** button up to when the **uEr** is blinking on the display. Pressing **ENTER** button and the display will show the version of software of the unit. To go back to the

functions press the **MENU** button.

5. How To Control The Unit

You can operate the unit in three ways:

1. By master/slave built-in preprogram function

2. By easy controller

3. By DMX controller

No need to turn the unit off when you change the DMX address, as new DMX address setting will be effected at once. Every time you turn the unit on, it will show " $\boxed{\text{406}}$ " on the display. After that the unit will be ready to receive DMX signal or run the built in programs.

### 5.1 Master/Slave Built In Preprogrammed Function

By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. You have to set the first unit in master mode $\boxed{\text{NRSE}}$ and select $\boxed{\text{Sh 0}}$ (random show), $\boxed{\text{Sh 1}}$ (show 1) or …or $\boxed{\text{Sh 8}}$ (show 8). Its DMX input jack will have nothing plugged into it, and Its master LED will be constantly on and sound LED will flash to the music. The other units will have to select $\boxed{\text{SL 1}}$ (normal) or $\boxed{\text{SL 2}}$ (2 light show) mode, Their DMX cables plugged into the DMX input jacks (daisy chain) and the slave led lights will constantly on.

2-light show

In slave mode, $\boxed{\text{NRSE}}$ (master) means the unit works as the master unit and $\boxed{\text{SL 1}}$ or $\boxed{\text{SL 2}}$ means 2-light show. In order to create a great light show, you can set $\boxed{\text{SL 1}}$ or $\boxed{\text{SL 2}}$ on the second unit to get contrast movement to each other, even if you have two units only.

5.2 Easy Controller (by CA-8)

The easy remote control is used only in master/slave mode. By connecting to the 1/4" microphone jack of the first unit, you will find that the remote controller on the first unit will control all the other units for Stand by, Function and Mode selection
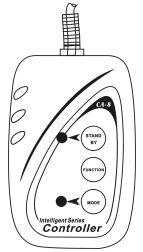
Blackout	Blackout the unit		
Function	1. Synchro Strobe in white 2. Asynchro Strobe in white 3. Sound Strobe in color	Select Color 1. Red 2. Green 3. Blue 4. Red + Green 5. Red + Blue 6. Green + Blue 7. Red + Green + Blue 8. Color change by sound	Select Show 1-8
Mode	Sound/Strobe (LED OFF)	Manual Color (LED ON)	LED blinking

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5.3 DMX Controller

Using universal DMX controller to control the units, you have to set DMX address from 1 to 512 channel so that the units can receive DMX signal.

Press the **MENU** button up to when the $\boxed{\text{Addr}}$ is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX512 address. Once the address has been selected, press and keep **ENTER** button pressed up to when the display stops blinking or storing automatically 8 seconds later. To go back to the functions without any change press the **MENU** button again. If you use please refer to the following diagram to address your DMX512 channel for the first 4 /2 units.

3 channels mode: $\boxed{1}$ $\boxed{4}$ $\boxed{7}$ $\boxed{10}$

18 channels mode: $\boxed{1}$ $\boxed{19}$ $\boxed{37}$ $\boxed{55}$

6. DMX512 Configuration

3-CH modes:

DMX 512 Configuration

3-CH mode

Ch1	Ch2	Ch3
Color Chase	Dimmer	Strobe
248-255 Stand Alone 232-247 Chase 15 216-231 Chase 14 200-215 Chase 13 184-199 Chase 12 168-183 Chase 11 152-167 Chase 10 136-151 Chase 9 120-135 Chase 8 104-119 Chase 7 088-103 Chase 6 072-087 Chase 5 056-071 Chase 4 040-055 Chase 3 024-039 Chase 2 008-023 Chase 1 000-007 Blackout	255 ⌐ 100% 0 ⌐ 0%	255 248~255 Sound Strobe 008~247 0~7 No Function 0

18-CH modes:

DMX 512 Configuration

18-CH mode

Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7	Ch8	Ch9
Red 1	Green 1	Blue 1	Red 2	Green 2	Blue 2	Red 3	Green 3	Blue 3
255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%

Ch10	Ch11	Ch12	Ch13	Ch14	Ch15	Ch16	Ch17	Ch18
Red 4	Green 4	Blue 4	Red 5	Green 5	Blue 5	Red 6	Green 6	Blue 6
255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%

7. DMX512 Connections

The DMX512 is widely used in intelligent lighting control, with a maximum of 512 channels.

COMMON

DMX INPUT — DMX + / DMX - — DMX OUTPUT

Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal.
(Resistance 120 ohm 1/4W)between pin2(DMX-)and pin3(DMX+) of the last fixture.
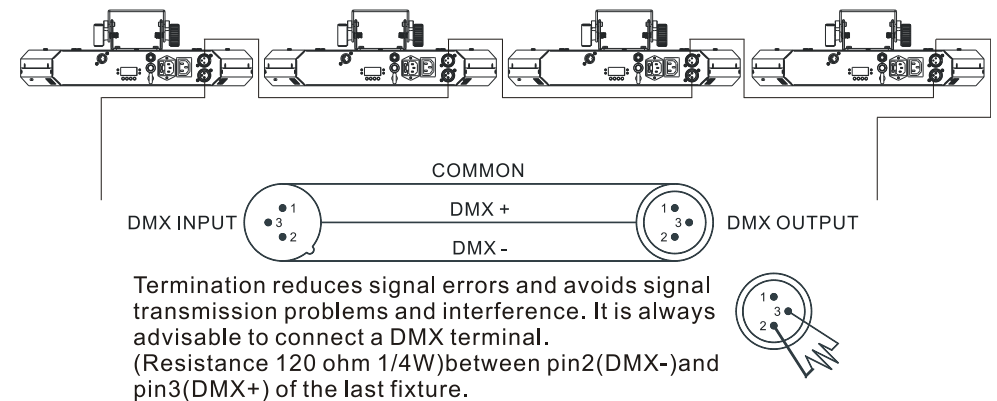
1. Connect the fixture together in a "daisy chain" by XLR plug cable from the output of the fixture to the input of the next fixture. The cable cannot be branched or split to a "Y" cable. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system

2. The DMX output and input connectors are pass-through to maintain the DMX circuit when one of the units' power is disconnected.

3. At last fixture, the DMX cable has to be terminated with a terminator to reduce signal errors. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

4. Each lighting fixture needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).

5. 3 pin XLR connectors are more popular than 5 pins XLR.
   3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
   5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+),
   Pin4/5: not used

8. Troubleshooting

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

A. The fixture does not work, no light

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

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 fixture 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. Some fixtures don't respond to the easy controller

1. You may have a break in the DMX cabling.
2. Check the LED for the response of the master/ slave mode signal.

D. No response to the sound

1. Make sure the fixture does not receive DMX signal.
2. Check microphone to see if it is good by tapping the microphone.

E. 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.

9. Fixture Cleaning

The cleaning of internal 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 fixture'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.

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EC - Declaration of Conformity

We declare that our products (lighting equipments) comply with the following

specification and bears CE mark in accordance with the provision of the

Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55014-2: 1997 A1: 2001, EN61000-4-2: 1995; EN61000-4-3: 2002;

EN61000-4-4: 1995; EN61000-4-5: 1995, EN61000-4-6: 1996,

EN61000-4-11: 1994.

&

Harmonized Standard

EN60598-1: 2000+ALL: 2000+A12: 2002

Safety of household and similar electrical appliances

Part 1: General requirements

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Innovation, Quality, Performance