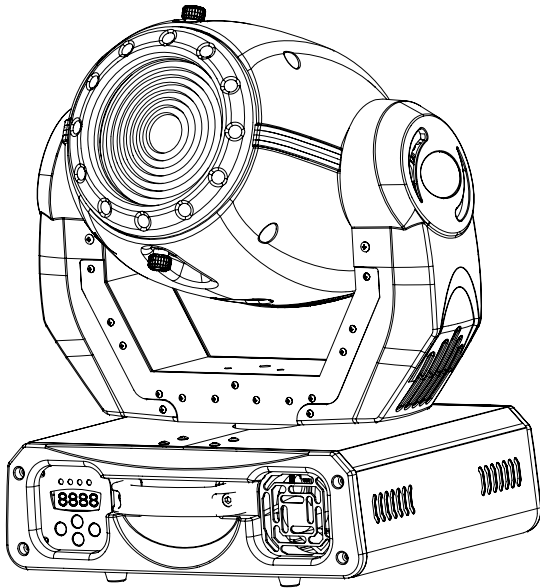


# iSolution

Your integrated Solution

**DMX512**

**LINKABLE**  
  
**STAND ALONE**



## User Guide

*Please read these instructions carefully before use*

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## 1. Safety Instruction

- 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.
- The unit is designed for use with the MSD 250/2 or NSD 250/2 lamp. Do not use any other type of lamp.
- 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 fuse/lamp replacement or servicing.
- Replace fuse/lamp only with the same type.
- Make sure there are no flammable materials close to the unit while operating, as it is fire hazard.
- Use safety chain when fixes this unit. Don't handle the unit by taking its head only, but always by taking its base.
- Maximum ambient temperature is  $T_a : 40^{\circ}\text{C}$ . Don't operate it where the temperature is higher than this.
- Unit surface temperature may reach up to  $85^{\circ}\text{C}$ . Don't touch the housing bare-hand during its operation, and allow about 15 minutes to cool down before replacing bulb or serving, as the unit could be very hot.
- 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.
- Don't connect the device to any dimmer pack.
- Do not touch any wire during operation as high voltage might be causing electric shock.

## Warning

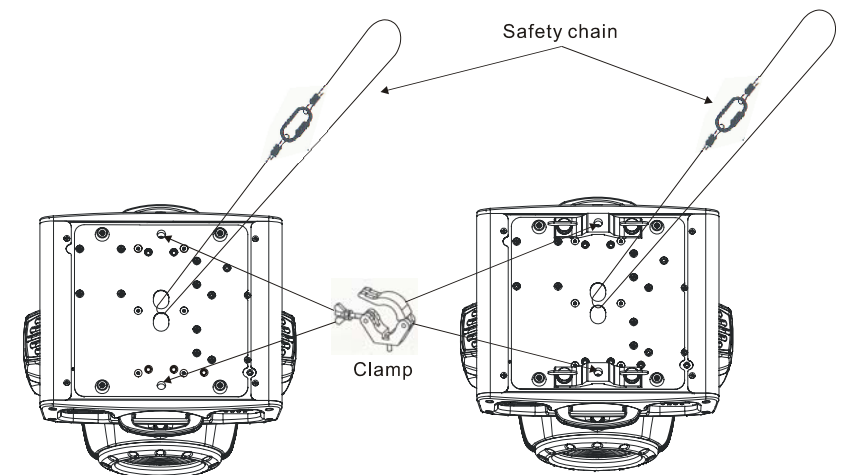
- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- Never touch bulb with bare fingers, as it is very hot after using.
- Hot lamp explosion hazard. Do not open the unit within five minutes after switching off.
- Do not start on the unit without bulb enclosure or housing are damaged.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- Do not look directly at the light while the bulb is on.

## Caution

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

## Installation

The unit should be mounted via its mounting system ( as shown below ) on the bottom of the base. Use clamps to fix the unit to truss. 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 50 kgs for each unit. Also always use a safety cable that can hold 10 times of the weight of the unit when installing the fixture.



## 2. Technical Specification

### Power supply

- AC 120V ~ 60Hz / 230V ~ 50Hz

### Lamp

- Discharge lamp MSD 250/2 or NSD 250/2 GY 9.5

### Optical system

- High efficiency optical system
- High quality optical lens and dichroic colors
- Manually adjustable beam angle: 16° ~26°

### Shutter/Dimmer

- Blackout, 0~100 smooth dimming and strobe speed variable(1~10 flashes per second).

### Color wheel

- Independent color wheel with 6 dichroic colors plus white.
- Color wheel rotates with variable speed, giving rainbow effect.

### CMY Mixing system

- Cyan: 0 ~ 100%, Magenta: 0 ~ 100%, Yellow: 0 ~ 100%

### Effect Wheel

- Frost filter and diagonal lens

### Movement

- Pan: 540° in 2.8 second.
- Tilt: 270° in 1.6 second.
- Automatic pan/ tilt position correction

### DMX Channels

- Standard DMX512 signal addressing and can be controlled by any universal DMX controller.

### 16 Channels:

|                            |                                |
|----------------------------|--------------------------------|
| Channel 1 = Pan            | Channel 9 = Yellow             |
| Channel 2 = Tilt           | Channel 10 = CMY color Mix     |
| Channel 3 = Pan/Tilt Speed | Channel 11 = CMY Speed         |
| Channel 4 = Dimmer         | Channel 12 = Effect Wheel      |
| Channel 5 = Shutter        | Channel 13 = No Function       |
| Channel 6 = Color          | Channel 14 = Pan 16 bit        |
| Channel 7 = Cyan           | Channel 15 = Tilt 16 bit       |
| Channel 8 = Magenta        | Channel 16 = Lamp On/Off/Reset |

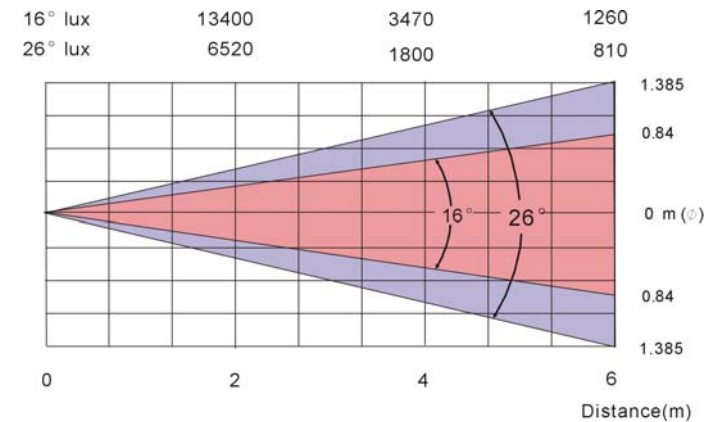
### 8 Channels:

|                           |
|---------------------------|
| Channel 1 = Pan           |
| Channel 2 = Tilt          |
| Channel 3 = Shutter       |
| Channel 4 = Effect wheel  |
| Channel 5 = Color         |
| Channel 6 = CYM Color Mix |
| Channel 7 = Dimmer        |
| Channel 8 = CMY Speed     |

**Dimension:** 428 x 369 x 481 mm (L x W x H)

**Weight:** 24.2 kg

### Luminous intensity:



### 3. Lamp



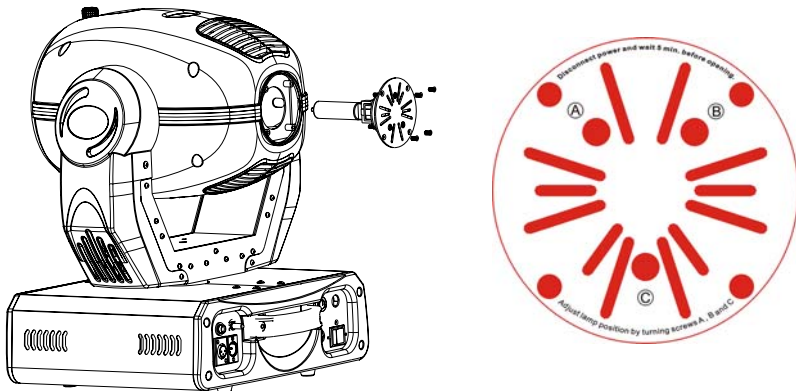
In case of replacement of the lamp or maintenance, do not open the fixture within 15 minutes until the unit cools down after switching off.

Because of its high internal pressure, there might be a risk that the Discharge lamp would explode during operation. The lamp emits intense UV radiation which is harmful to the eyes and skin. The high luminance of the arc can cause severe damage to the retina if looks directly at the lamp.

Discharge lamp:

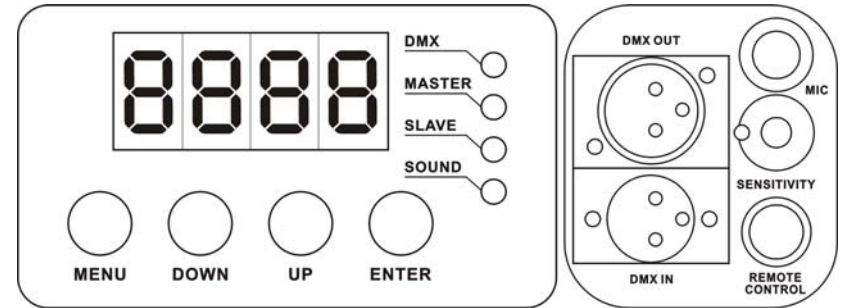
**MSD 250/2 or NSD 250/2 GY 9.5**

1. Always switch off the main supply and never handle the lamp or luminaire when it is hot.
2. Do not touch the bulb with bare hands. If this happens, clean the lamp with denatured alcohol and wipe it with a lint free cloth before installation.
3. The lamp generates UV radiation. Never operate the lamp without appropriate shielding.
4. When burning, the lamp operates at high pressure and there is a slight risk of arc tube rupture. The risk increases with age, temperature and improper handling of the lamp. Do not use the lamp any longer than its specified life.
5. Make sure the lamp is located in the center of the reflector for the best spot. Adjust lamp position by screws A, B and C.



### 4. How To Set The Unit

#### 4.1. Control Panel



#### Display

To show the various menus and the selected functions

#### LED

|        |          |                   |
|--------|----------|-------------------|
| DMX    | On       | DMX input present |
| MASTER | On       | Master mode       |
| SLAVE  | On       | Slave mode        |
| SOUND  | Flashing | Sound activation  |

#### Button

|       |  |
|-------|--|
| 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        |

#### Remote controller input

By connecting to the 1/4" microphone jack to control the unit for Stand by, Function, and Mode function.

#### Sensitivity

To adjust the sound-receiving sensitivity

#### Microphone

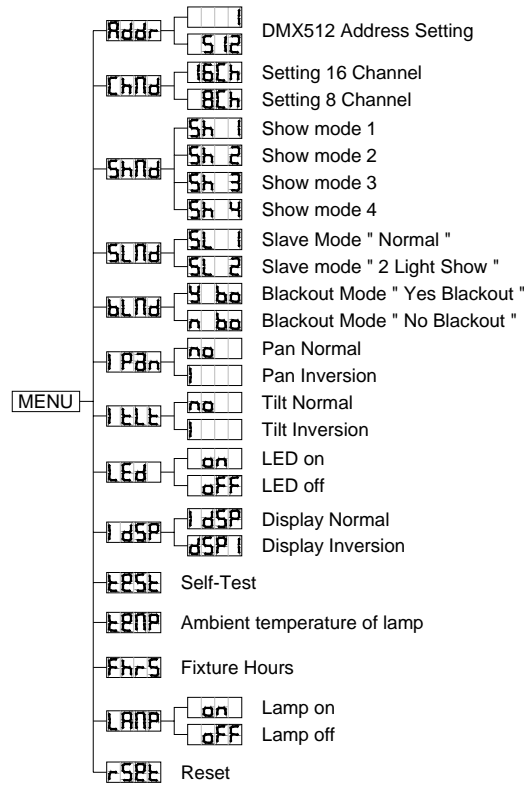
To receive audio signal for sound activation

#### DMX input/output

For DMX512 link, use 3-pin XLR plug cable to link the unit together.

## 4.2. Main Function

To select any of the pre-set functions, press the **MENU** button up to when 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 the **ENTER** button to setup or it will automatically return to the main functions without any change after idling 8 seconds. To go back to the functions without any change press the **MENU** button. The main functions are shown below:



### Addr DMX512 Address Setting

Press the **MENU** button up to when the **Addr** is shown 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 the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

### ChNd Channel Mode

Press the **MENU** button up to when the **ChNd** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **16Ch** (16 Channel) or **8Ch** (8 Channel) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

### ShNd Show Mode

Press the **MENU** button up to when the **ShNd** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Sh 1** (show 1) or **Sh 2** (show 2) or **Sh 3** (show 3) or **Sh 4** (show 4) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

- Sh 1** Show 1 mode - Fixture is placed on the floor. Tilt movement angle 210°.
- Sh 2** Show 2 mode - Fixture is fixed under ceiling. Tilt movement angle 90°.
- Sh 3** Show 3 mode - Fixture is placed on the speaker, The spot is always projecting to the audience's direction; i.e in front of the stage. Pan movement angle ( left to right to left ): 160°. Tilt movement angle: 90° ( 60° above horizon; 30° below horizon.)
- Sh 4** Show 4 mode - Fixture is fixed under ceiling. The spot is mainly projecting in front of the stage. Pan movement angle ( left to right to left ) :160°. Tilt movement angle: 90° ( vertically, front 75°; back 15° )

### SLNd Slave Mode

Press the **MENU** button up to when the **SLNd** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **SL 1** (normal) or **SL 2** (2 light show) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

blnd

### Blackout Mode

Press the **MENU** button up to when the **blnd** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **y bo** (yes blackout) or **n bo** (no blackout) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

iPan

### Pan Inversion

Press the **MENU** button up to when the **iPan** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **no** (normal) or **i** (pan inversion) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

iELE

### Tilt Inversion

Press the **MENU** button up to when the **iELE** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **no** (normal) or **i** (tilt inversion) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

LEd

### Led Display

Press the **MENU** button up to when the **LEd** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **on** (Led on) or **off** (Led off) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

iDSP

### Display Inversion

It is good for you to install the unit on the floor or under ceiling. Press the **MENU** button up to when the **iDSP** is blinking on the display. Use the **ENTER** button to change to the mode  **DSP** (display inversion), It will automatically store after 8 seconds. Or press the **ENTER** button again return to the mode **iDSP** (display normal). To go back to the functions press

the **MENU** button.

iDSP

Display normal mode for the fixture putting on the floor.

DSP

Display inversion mode for the fixture fixing under ceiling.

EST

### Self-Test

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

ENP

### Ambient temperature of lamp

Press the **MENU** button up to when the **ENP** is blinking on the display. Pressing **ENTER** button and the ambient temperature of lamp will show on the display. To go back to the functions press the **MENU** button again.

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 again.

LAMP

### Lamp ON/OFF

Press the **MENU** button up to when the **LAMP** is blinking on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **on** (Lamp on) or **off** (Lamp off) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

rSEt

### Reset

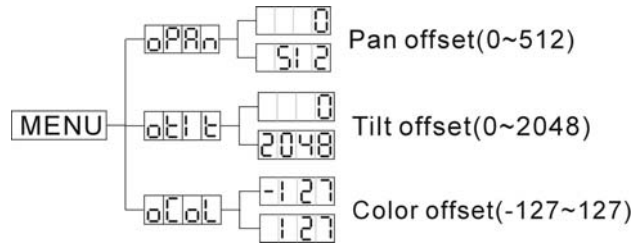
Press the **MENU** button up to when the **rSEt** is blinking on the display. Pressing **ENTER** button and all channels of the unit will return to their standard position. To go back to the functions press the **MENU** button again.

### DMX RESET :

Set DMX value of channel 8 and channel 16 to 255, then all channels of the unit will return to their standard home position.

### 4.3 Home Position Adjustment

Press **MENU** button for at least 5 seconds into offset mode to adjust the home position, the functions are shown below:



**oPAn** Pan offset

Press the **MENU** button for at least 5 seconds into offset mode, use **DOWN** and **UP** button up to when the **oPAn** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to adjust the pan home position. Once the position has been selected, press the **ENTER** button to setup or automatically return to the offset functions without any change press the **MENU** button again, To go back to the main functions without any change after 8 seconds.

**oTilt** Tilt offset

Press the **MENU** button for at least 5 seconds into offset mode, use **DOWN** and **UP** button up to when the **oTilt** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to adjust the tilt home position. Once the position has been selected, press the **ENTER** button to setup or automatically return to the offset functions without any change press the **MENU** button again, To go back to the main functions without any change after 8 seconds.

**oCol** Color offset

Press the **MENU** button for at least 5 seconds into offset mode, use **DOWN** and **UP** button up to when the **oCol** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to adjust the color home position. Once the color has been selected, press the **ENTER** button to setup or automatically return to the offset functions without any change press the **MENU** button again, To go back to the main functions without any change after 8 seconds.

### 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 IL-0824 ( please refer to the user guide of iLead controller ) or by universal 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 250U on the display and move all the motors to their 'home' position and you may hear some noises for about 20 seconds. **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

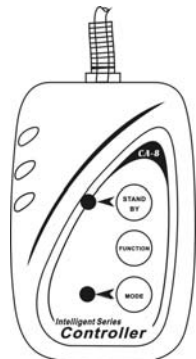
You can select blackout mode **BLNd** in **Y b0** (yes blackout) or **n b0** (no blackout) mode while the unit is turned on. By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. You have to select show (show 1, 2, 3, 4) modes by easy controller . 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 set in slave mode **SLNd** and select **SL 1** (normal) or **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 **SLNd** (slave mode), **SL 1** means the unit works normally and **SL 2** means 2-light show. In order to create a great light show, you can set **SL 2** on the second unit to get contrast movement to each other, even if you have two units only.

#### 5.2. Easy Controller

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 control on the first unit will control all the other units for Stand by, Function and Mode.





|          |   |  |                          |  |
|----------|---|--|--------------------------|--|
| Stand by | Blackout the unit   |  |                          |  |
| Function | Strobe<br>1. Color sync. strobe<br>2. Sync. strobe<br>3. Two-light strobe | X/Y moving show pattern selection<br>( Show 1 ~ Show 4 )<br>Please refer to 4.2. Main Functions- Show mode | Color selection          | X/Y moving setting<br>1.Pan position<br>2.Tilt position<br>3.Dimmer<br>First set Master unit, then set Slave units' position |
| Mode     | Sound 1<br>(LED off )   | Sound 2<br>(LED normal blinking)   | Slow/Sound 3<br>(LED on) | Position/ Latch<br>(LED fast blinking)   |

### 5.3.1 iSolution Operation

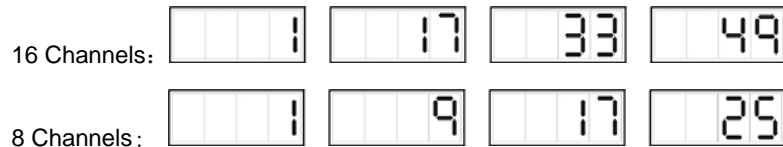
- Consistent DMX configuration enable iScan, iRock and iShow to be linked together and controlled at the same time.
- DMX address can be set remotely by iLead controller ( please refer to the user manual of iLead controller ). No need to calculate the DMX channels of each fixture in the chain.
- Automatic switching between DMX function and built-in stand alone programs.

### 5.3.2 DMX Controller

If you use a 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 **Addr** is shown 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.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.



You have to set the fixture's show mode in 8 channels mode when you use IL-0824 controller. DMX address can be set remotely by IL-0824 controller. No need to calculate the DMX channels of each fixture in the chain.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.



## 5.4. DMX512 Configuration

| DMX-512 Configuration |  |                |  |  |  |             |                    |
|-----------------------|--|----------------|--|--|--|-------------|--------------------|
| Channel 1             | Channel 2  | Channel 3      | Channel 4  | Channel 5  | Channel 6  | Channel 7   | Channel 8          |
| Pan                   | Tilt   | Pan/Tilt speed | Dimmer   | Shutter  | Color  | Cyan        | Magenta            |
|                       |  |                |  | 248-255 Open<br>240-247<br>132-239 Opn<br>131 Fast shutter<br><br>016 Slow shutter<br>008-015 Open<br>000-007 Blackout | 248-255<br>247 Slow<br>188 Fast<br>187 Fast<br>128 Slow<br>109-127 Purple<br>091-108 Light blue<br>073-090 Green<br>055-072 Orange<br>037-054 Yellow<br>019-036 Red<br>000-018 White |             |                    |
| Channel 9             | Channel 10   | Channel 11     | Channel 12   | Channel 13   | Channel 14   | Channel 15  | Channel 16         |
| Yellow                | CMY Color Mix  | CMY Speed      | Effect   | No Function  | Pan 16 bit   | Tilt 16 bit | Lamp On/Off /Reset |
|                       | 255<br>248<br>241-247<br>234-240<br>227-233<br>221-228<br>214-220<br>207-213<br>201-208<br>194-200<br>187-193<br>180-186<br>174-179<br>167-173<br>160-166<br>154-159<br>147-153<br>140-146<br>133-139<br>127-132<br>120-126<br>113-119<br>106-112<br>100-105<br>093-099<br>086-092<br>080-085<br>073-078<br>066-072<br>059-065<br>053-058<br>046-052<br>039-045<br>000-038 White |                | 240-255 Frost<br><br>033-239 Beam Shape Retation<br><br>016-032 Beam Shppe |  |  |             |                    |

i.) The unit will reset after about five seconds.

For DMX reset, put DMX value of CH-8 & CH-16 to 255,

For lamp on, put DMX value of CH-8 to 247 & CH-16 to 255.

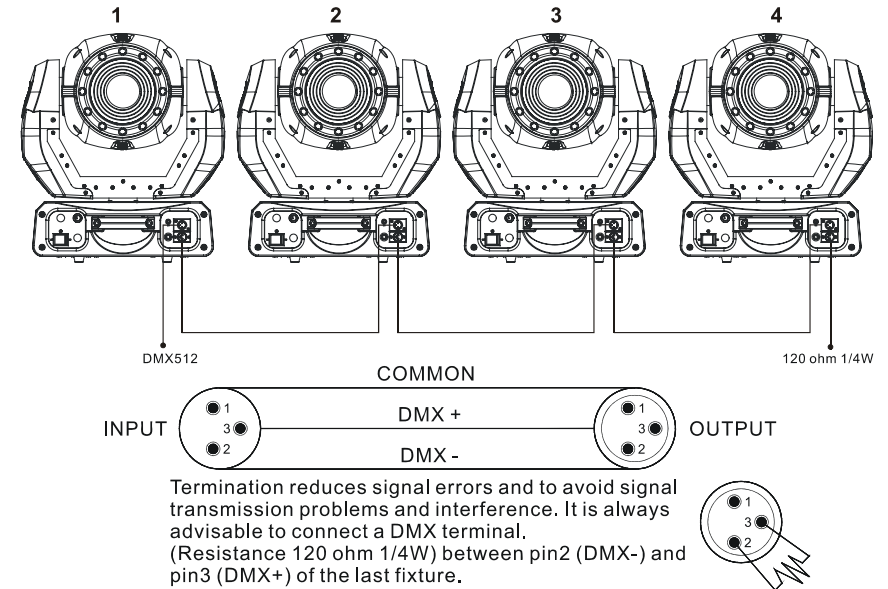
For lamp off, put DMX value of CH-8 to 239 & CH-16 to 255.



| DMX-512 Configuration |                    |   |   |  |   |                    |                    |
|-----------------------|--------------------|---|---|--|---|--------------------|--------------------|
| Channel 1             | Channel 2          | Channel 3   | Channel 4   | Channel 5  | Channel 6   | Channel 7          | Channel 8          |
| Pan                   | Tilt               | Shutter   | Effect Wheel  | Color  | CYM Color Mix   | Dimmer             | CMY Speed          |
| 540°<br>270°<br>0°    | 270°<br>135°<br>0° | 248-255 Open<br>240-247<br>132-239 Oprn<br>131 Fast shutter<br>033-239 Beam Shape<br>Rotation<br>016-032 Beam Shppe<br>016 Slow shutter<br>008-015 Open<br>000-007 Blackout | 240-255 Frost<br>033-239 Beam Shape<br>Rotation<br>016-032 Beam Shppe<br>000-015 Open | 248-255<br>247<br>188<br>187<br>128<br>109-127<br>091-108<br>073-090<br>055-072<br>037-054<br>019-036<br>000-018 | 255<br>248<br>240-247 Color31<br>232-239 Color30<br>224-231 Color29<br>217-223 Color28<br>209-216 Color27<br>201-208 Color26<br>194-200 Color25<br>186-193 Color24<br>178-185 Color23<br>170-177 Color22<br>163-169 Color21<br>155-162 Color20<br>147-154 Color19<br>140-146 Color18<br>132-139 Color17<br>124-131 Color16<br>116-123 Color15<br>109-115 Color14<br>101-108 Color13<br>093-100 Color12<br>085-092 Color11<br>078-084 Color10<br>070-077 Color9<br>062-069 Color8<br>055-061 Color7<br>047-054 Color6<br>039-046 Color5<br>031-038 Color4<br>024-030 Color3<br>016-023 Color2<br>008-015 Color1<br>000-007 White | 255 100%<br>000 0% | 255 Slow<br>0 Fast |

## 5.5. DMX512 Connection

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



- If you use a controller with 5 pins DMX connector, you need to use a 5 to 3 pin adapter.
- At last unit, the DMX cable has to be terminated with a terminator. 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 unit.
- Connect the unit together in a “daisy chain” by XLR plug from the output of the unit to the input of the next unit. The cable cannot be branched or split to a “Y” cable. DMX512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
- The DMX output and input connectors are pass-through to maintain the DMX circuit, when power is disconnected to the unit.
- Each lighting unit 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).
- The end of the DMX512 system should be terminated to reduce signal errors.
- 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 (+)

## 6. Troubleshooting

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 connect 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 in the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

### C. Some units don't respond to the easy controller

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

### D. No response to the sound

1. Make sure the unit is not receiving DMX signal.
2. Check microphone to see if it is good by tapping the microphone

### E. One of the channels is not working well

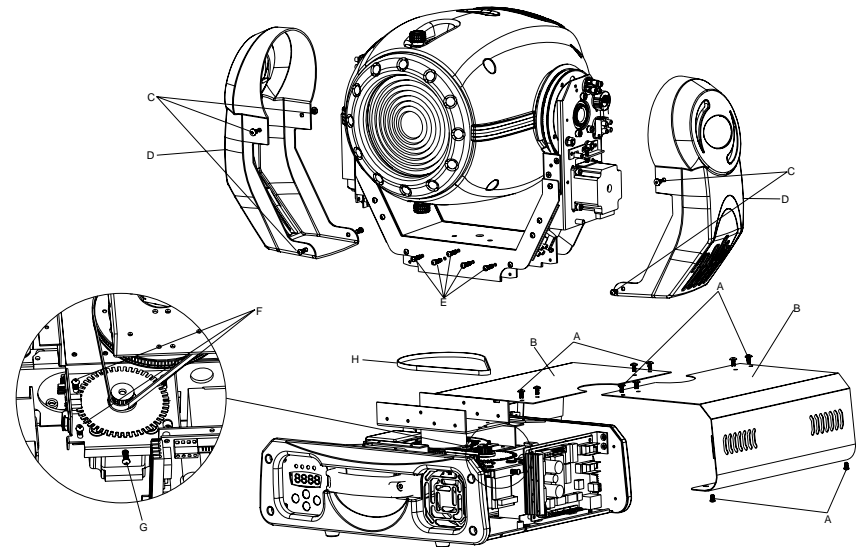
1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

### F. The lamp is cutting out intermittently

1. The lamp is not working well. Check the main voltage either too high or too low.
2. Internal temperature may be too high. Check and if necessary replace the fan on the head.

## G. If The pan belt is broken

1. Turn off the main power.
2. Unscrew all the screws (A) and open the base-housing cover (B).
3. Unscrew all the screws (C) and open the arm cover (D).
4. Unplug all the connect wires that from the arm to the bottom.
5. Unscrew the screws (E) and remove the fixture head.
6. Loose the screws (F), then loose the screws (G).
7. Change a new belt (H) , put the belt around the axis gear and motor gear.
8. Screwed the screws (G), install the new belt and adjust the belt tension properly. Note: do not fix belt too tight as it is easy to rupture.
9. Plug all the connect wires back that from the bottom to the arm.
10. Reverse the procedures from point 5 to point 2.



Pay attention to the belt tension when install the belt.

Please refer to the photos below:

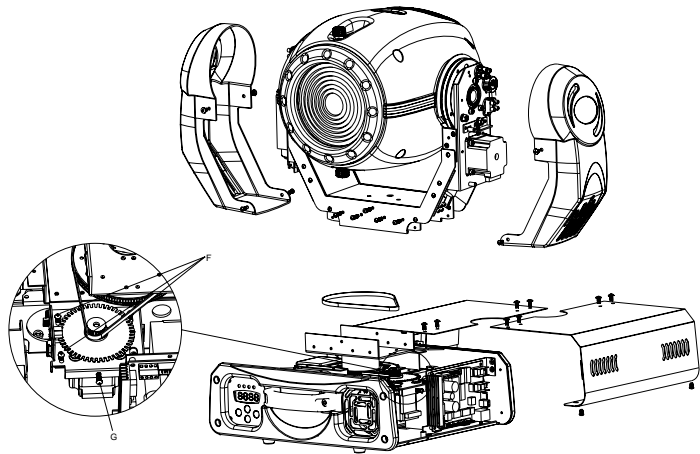


Photo 1

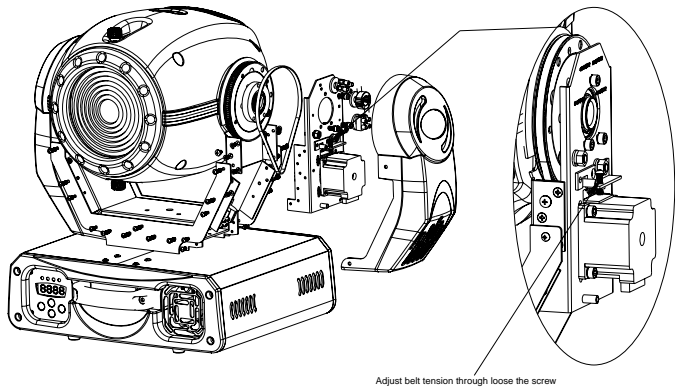


Photo 2

## 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.

### 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

# Innovation , Quality , Performance