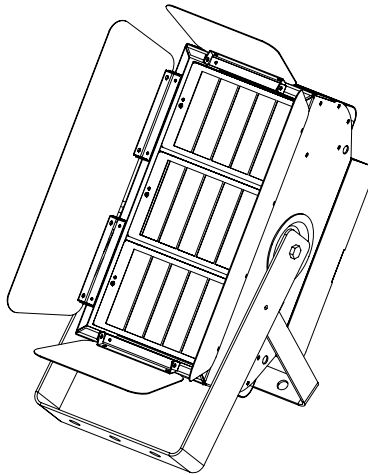


# iSolution

Your integrated Solution

**DMX512**

LINKABLE  
  
STAND ALONE



## User Guide

Professional Entertainment Technology

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## 1. General Instructions

The following points are important for safety as well as for the smooth installation and performance of the unit.

- Unpack carefully and be sure that no damage has occurred during shipping.
- It is very important to ground the yellow/green conductor in order to meet regulations for safety.
- Do not connect the device to any dimmer pack or power pack.
- The electrical work that is necessary for installation must be done by qualified personnel .
- Be sure to locate the unit in a place with adequate ventilation at least 15 cm from the walls and at least 100 cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Be careful that no liquids or other objects can enter the unit. If this ever happens, disconnect the main power immediately.
- In the event of serious operating problems, turn off the unit immediately. Never try to repair the unit yourself. Repairs carried out by non-qualified personnel can lead to serious damage or malfunction. Please contact your dealer about authorized technical assistance. Always use genuine spare parts.
- Occasional breaks are necessary to prevent breakdowns. This unit is not designed to be used non-stop.
- Always remember to unplug the unit from the power mains before any service is done.
- Please recycle the packaging.

## 2. Main Features

Voltage : AC 120V 60Hz or 230/240/250V 50/60 Hz

- Bulb : J Type 230V 800W(Euro)  
J Type 120V 500W(USA)
- 3 dichroic mirrors red, blue, and green .
- With lamp saving switch-off function. When the unit receives stand by signal from a easy controller or an universal DMX controller, it will switch off the lamp extending the lamp's lifetime.
- Easy access for bulb change.
- Universal DMX addressing and control.
- The units can be linked together in a master/slave combination and run by built-in programs.
- Compatible with easy controller or universal DMX controller.
- DMX signal / sound activation LED indicators.
- Fan cooled.
- Dimension : 285 x 295 x 460 mm
- Weight : 8.8 kg

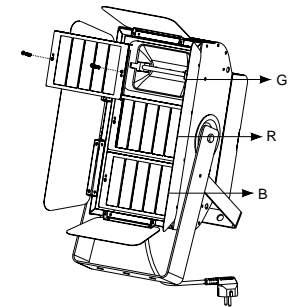
## 3. Lamp

### J Type 230V 800W(Euro)

### J Type 120V 500W(USA)

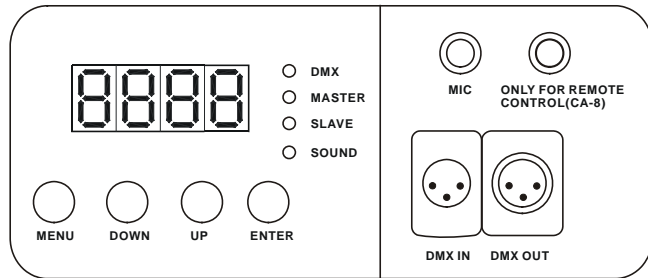
- Always switch off the mains supply and never handle the lamp or luminaire when it is hot.
- Do not touch the bulb with bare hands. If this does happen, clean the lamp with denatured alcohol and wipe with a lint free cloth before installing.
- Change lamp:

Take off the dichroic glass as showing and change the lamp. Re-screw the glass after changing the lamp.



## 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 connect to the 1/4" microphone jack to control the unit for stand by, function and mode

#### Microphone

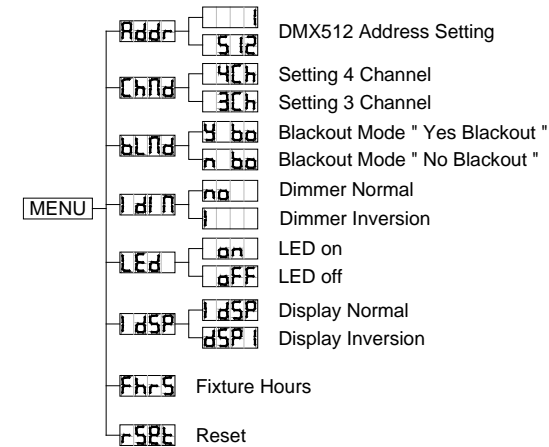
To receive audio signal for sound activation .

#### 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 given functions, press the **MENU** button up to when the required one is showing 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 showing below:



#### Addr DMX512 Address Setting

Press the MENU button up to when the **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 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 **4Ch** (4 Channel ) or **3Ch** (3 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.

## blNd Blackout Mode

Press the **MENU** button up to when the **blNd** is showing 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.

## IdIn Dimmer Inversion

Press the **MENU** button up to when the **IdIn** 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** (dimmer 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 I** (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 again.

**IdSP** Display normal mode for the fixture putting on the floor.

**dSP I** Display inversion mode for the fixture fixing under ceiling.

## 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.

## rSEt Reset

Press the **MENU** button up to when the **rSEt** is blinking on the display. Pressing **ENTER** button and the fixture will be reset. To go back to the functions press the **MENU** button again.

## 5. How To Control The Unit

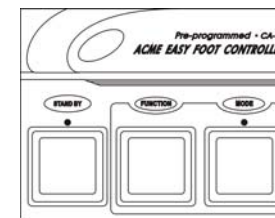
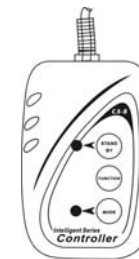
You can operate the unit in four ways:

### A. By master/slave 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. 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 unit's DMX cables plugged into the DMX input jacks (daisy chain) and the slave led lights will constantly on.

### B. By easy controller(CA-8 & CA-8F)

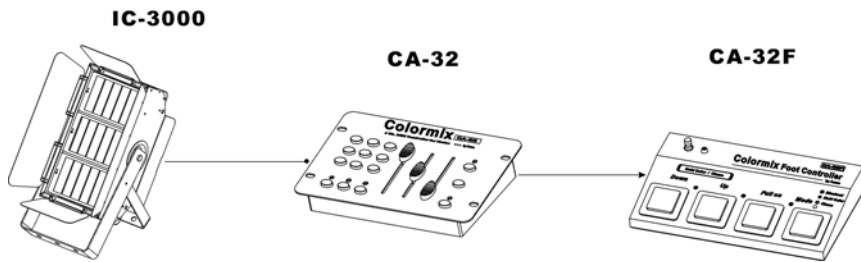
The easy remote control is used only in master/slave mode. By connecting to the 1/4" microphone jack of the first unit, you will find that the remote control on the first unit will control all the other units for Stand by, Function/Mode.



Stand By	Blackout the unit		
Function	1. Synchronous Strobe 2. 2-light Show Strobe	Full on/Color selection (Hold on 3 seconds for full on)	Dimmer
Mode	Sound(LED Off)	Manual(LED On)	Latch(LED blinking)

### C. By Colormix controller

By link the Colormix controller to the unit , you have to use 3 pin XLR cable and use 5 pin XLR cable between Colormix controller and Colormix foot controller.



#### CA-32

- A professional, user friendly DMX 4ch.controller for colorimixing.
- Equipped with 9 different hold-color buttons for instant access of colors.
- Comes with 32 spectrum mix colors, color fade, and 12 different chase patterns.
- Providing the richest changing colors for the show.
- Speed and dimmer adjustable for both color fade and chase.
- Sound activated function is available.
- Full on and Blackout functions .

#### CA-32F

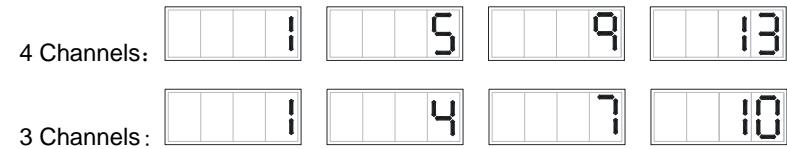
- Colormix Foot controller is a extended controller of Colormix.
- To be liked with Colormix. Add a switch to change the control between Colormix and Colormix Foot Controller.
- Mode i.) Blackout (LED on)
  - ii.) Hold Color(LED off)
  - iii.) Chase (LED blinking)-Stamp on the button over 2 seconds for chase
- Up and Down buttons:To select the hold colors and chase patterns.
- Full on: Stamp the button for full on.

### D. By universal 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.



**DMX512 Configuration**

You can select 4 or 3 channels mode.

4 channels:

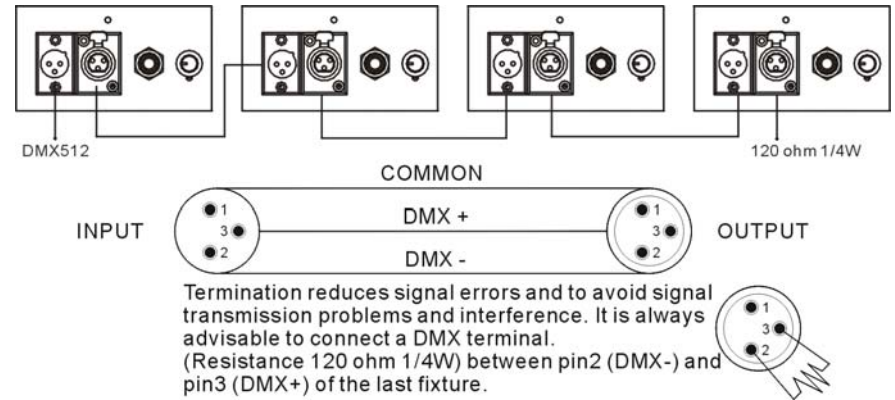
DMX512 Configuration			
Ch1	Ch2	Ch3	Ch4
Color	Chase	Speed	Master
255	Color Chase	255	100 %
240	Color Fade		
224	Color 32	Fast	0 %
217	Color 31		
210	Y-G	210	0 %
203	R-G		
196	Color 30	189	0 %
189	Color 29		
182	Color 28	168	0 %
175	Color 27		
168	Color 26	147	0 %
161	Color 25		
154	Color 24	126	0 %
147	Color 23		
140	Color 22	105	0 %
133	Color 21		
126	Color 20	84	0 %
119	Color 19		
112	Color 18	63	0 %
105	Color 17		
98	Color 16	42	0 %
91	Color 15		
84	Color 14	21	0 %
77	Color 13		
70	Color 12	0	Slow
63	Color 11		
56	Color 10	0	0 %
49	Color 9		
42	Color 8	0	0 %
35	Color 7		
28	Color 6	0	0 %
21	Color 5		
14	Color 4	0	0 %
7	Color 3		
0	Color 2	0	0 %
	Color 1		

If you use CA-32 Colormix controller, the DMX value range of CH4 is from 100% to 0% .

3 channels:

DMX512 Configuration		
Ch1	Ch2	Ch3
Red	Green	Blue
100 %	100 %	100 %
0 %	0 %	0 %

**6. DMX Link & Controls**



1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. 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.
3. 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 can not 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.
4. The DMX output and input connectors are pass-through to maintain the DMX circuit, even when one of the units in the chain is power disconnected.
5. 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).
6. The end of the DMX512 system should be terminated to reduce signal errors.
7. 3 pin XLR connectors are more popular than 5 pin 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 (+)

## 7. Troubleshooting

Following are a few common problems that you might encounter, and suggestions as to how to solve them.

### A. No light

1. Check the power on LED and fuse
2. Check the lamp if it is ok? (The lamp may turn off, when the unit is in blackout mode).

### B. Not responding to DMX

1. Check if the red LED is on, if not, check DMX connectors, cables and to see if they are linked correctly.
2. If the red LED is on and no response to the control, check the dipswitch 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 interference to DMX interface circuit.

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

You may have a break in the DMX cabling. The unit receiving no DMX signal will begin its own light show. Check the red LED for the response of the DMX signal.

### D. No response to the sound

1. Check the unit to make sure if it is not receiving DMX signal (red LED should be off).
2. Check the unit that is not set to auto chase mode.
3. Check microphone to see if it is good by tapping the microphone.

## 8. 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 products.
- ✗ Always dry the parts carefully.
- ✗ Clean the external optics at least once 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

## Technical Specifications

Power	AC 120V 60Hz	AC 230/240/250V 50/60Hz
Fuse	6X30mm Glass T15A	
Lamps	J Type 120V 500W	J Type 230V 800W
Dimension	295mm x 285mm x 460mm	
Weight	8.8 kg / 19.6 lbs	

**Innovation , Quality , Performance**