

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 surroundings 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.

EN55014-1: 1993, EN61000-3-2: 1995, EN61000-3-3:1995
EN55014-2: 1997 CATEGORY II
EN61000-4-2: 1995, EN61000-4-3: 1995, EN61000-4-4:1995
EN61000-4-5: 1995, EN61000-4-6: 1995, EN61000-4-11: 1994

&

Harmonized Standard

EN60598-1: 1993
Safety of household and similar electrical appliances
Part 1 : General requirements

Following the provisions of the Low Voltage Directive 73/23/EEC and 93/68/EEC.

EC Declaration of Conformity

We declare that our products (remote controller) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55015: 1993
EN50082-1: 1997
EN61000-3-2: 1995
EN61000-3-3: 1995

TABLE OF CONTENTS

1. Safety Instruction
2. Technical Specifications
3. Lamp
4. How To Set The Unit
 - 4.1 Control Panel
 - 4.2 Main Function
- 1- 5. How To Control The Unit
 - 5.1 Master/Slave Built-In Preprogrammed Function.
 - 5.2 Easy Controller
 - 5.3 Universal DMX Controller
 - 5.4 DMX512 Configuration
 - 5.5 DMX512 Connection
6. Troubleshooting
7. Fixture Cleaning

1. Safety Instruction



WARNING

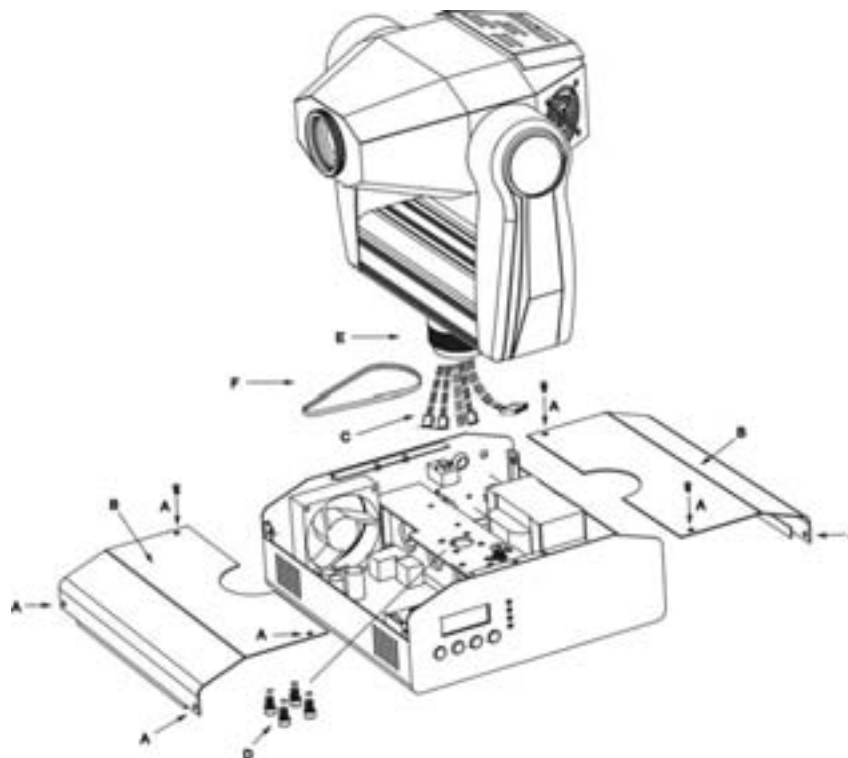
Please read carefully the instruction, which includes important information about the installation, usage and maintenance.

- 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 ELC 24V 250W 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 a safety cable when mounting this unit. Do not lift the unit by the head. Always lift or move by holding the base.
- Maximum ambient temperature is TA: 40°C. Do not operate 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, and allow about 15 minutes to cool down before replacing bulb or servicing, as the unit could be very hot.
- In the event of a 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 CHAUVET. Always use the same type spare parts.
- Never connect the device to any dimmer pack.
- Do not touch any wire during operation as high voltage may cause electric shock.

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. Unplug all the connecting wires (C) that from the arm to PC board and igniter.
4. Unscrew the screws (D) that hold the axis gear (E).
5. Install a new belt (F) by going through all connecting wires that run from the arm to base, and through the bridge for correct position.
6. Set the gear axis on the bridge and screw in. Note: do not press the belt.
7. Put the belt around the axis gear and motor gear.
8. Plug all the connecting wires (C) from the arm to PC board and igniter.
9. Adjust the pan home position.
10. Screw the base-housing cover (B).

2-



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 power connection 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 and cables to see if linked 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 high voltage cables that may cause damage or interference to DMX 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. Check the unit that is not receiving DMX signal.
2. Check the unit that is not set to display mode.
3. 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 blown.

F. The lamp is cutting out intermittently

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

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 operate the unit without the bulb enclosure or if housing is 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 yourself. In the unlikely event your unit may require service, please contact CHAUVET.

Installation

The unit should be mounted via its screw holes 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 15 kg for each unit.

2. Technical Specification

Power supply

- AC 120V~60Hz
- AC 230/240/250V~50/60Hz

Lamp

- ELC 24V 250W

Beam angle

- Standard 26° focused beam angle.
- Fresnel lens.

Movement

- Pan : 540° in 2.8 second.
- Tilt : 270° in 1.6 second.

Dimmer

- Smooth 0~100% dimmer.

Shutter

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

Color wheel

- Independent color wheel with 11 dichroic filters plus white.

DMX Channels

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

Channel 1 = Pan motion

Channel 2 = Tilt motion

Channel 3 = Dimmer

Channel 4 = Shutter

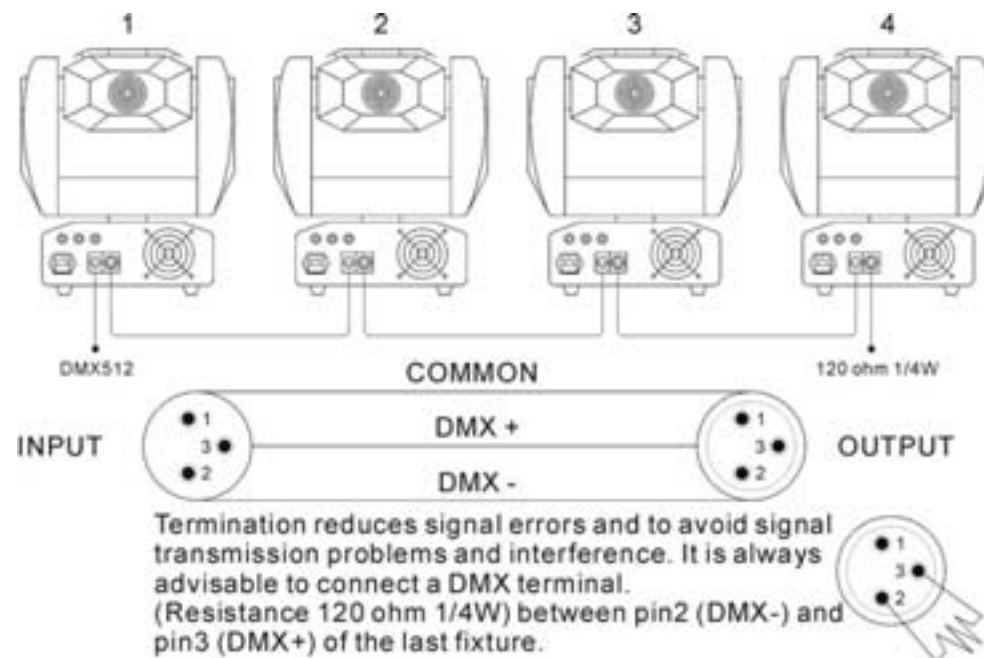
Channel 5 = Colors

Dimension: 290mm x 330mm x 380mm / 11.4in x 13in x 15in

Weight: 12 kg / 26.4 lb

5.5 DMX512 Connection

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



4-

1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. On 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 units 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 into a "Y" cable. DMX512 is a very high-speed signal. Inadequate or damaged cables, solder 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, when power is disconnected to the unit.
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 (+)

5.4. DMX512 Configuration

DMX512 CONFIGURATION				
CHANNEL 1	CHANNEL 2	CHANNEL 3	CHANNEL 4	CHANNEL 5
PAN	TILT	DIMMER	SHUTTER	COLOR
540° 	270° 	255 100% 	255 	255 Fast
				128 Slow
				121 Magenta
				110 Yellow
				99 Blue
				88 Light green
				77 Pink
				66 UV Purple
				55 Red
				44 Amber
				33 Light blue
				22 Orange
				11 Green
				0 White

3. Lamp



When replacing the lamp or performing maintenance, do not open the fixture after switching off for 15 minutes until the unit cools down.

Lamp: ELC 24V 250W

1. Always switch off the main power and never handle the lamp or luminaries when 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. Never operate the lamp without appropriate shielding.
- 5- 4. Make sure the lamp is located in the center for the best spot.

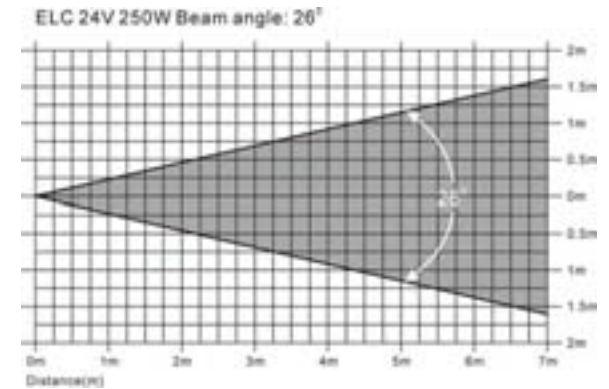
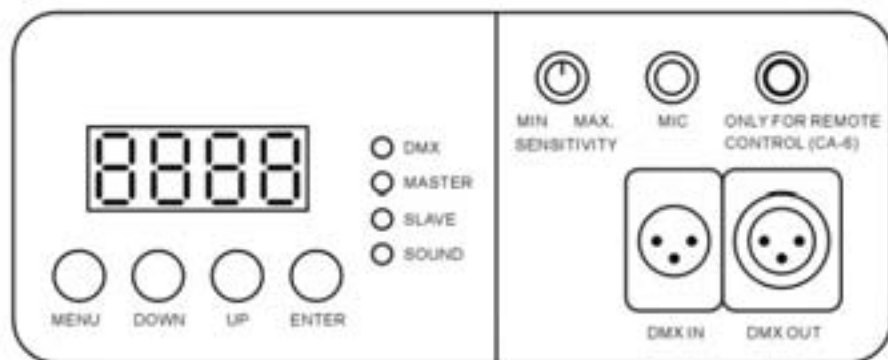


Diagram for Lamp changing



4. How To Set The Unit

4.1 Control Panel



1. Display

To show the various menus and to select functions.

2. LED

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

3. 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

4. Remote controller input

The CA-8 Easy Controller plugs into the 1/4" microphone jack to control the unit for Stand by, Strobe/Next and Fast/Slow function.

5. Sensitivity

To adjust the microphone-receiving sensitivity.

6. Microphone

Receives audio signal for sound activation.

7. DMX input/output

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

5.2 Easy Controller

The easy remote control is used only in master/slave mode. By connecting it 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, Strobe/Next and Fast/Slow function.

1. **STAND BY** - To blackout all the units

2. **FUNCTION** - STROBE/NEXT/MOVING

Strobe - When the mode LED is off, pressing the function button will activate the strobe effect. The unit will strobe while the button is depressed.

Color Change - When the mode LED is on, pressing the function button will change the color. Each time the button is depressed, the color will change.

Position/Dimming - When the mode LED is blinking, the function button controls the pan, tilt and dimming. The first time the function button is pressed, the unit will pan. Hold the button until the unit is in the desired position. The next time the button is pressed, the tilt position is accessed. The third time the button is depressed, the unit can be dimmed. The next three times the function button is depressed will access the three functions on the slave heads.



3. **MODE** - AUDIO/SLOW/POSITION

When the LED is off, the unit in AUDIO mode, it's movement- Pan/Tilt & Color change is sound activated. If the LED is on, the unit is in SLOW mode. Pan/Tilt is sound activated but the Color wheel is static, controlled by NEXT button. If the LED blinks, the unit is in POSITION mode, hold the MOVING button to set the Pan, Tilt and Dimmer channel of master or 2-CH fixture.

5.3 Universal DMX Controller

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

Press the **MENU** button until **Addr** is showing on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to change the DMX512 address. Once the address has been selected, press and keep **ENTER** button pressed until 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.



5. How To Control The Unit

You can operate the unit in three ways:

1. By master/slave with built-in preprogram function
2. By easy controller
3. By universal DMX controller

There is need to turn the unit off when you change the DMX address, as the new DMX address setting will be effected at once. Every time you turn the unit on, it will show AE-4W 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

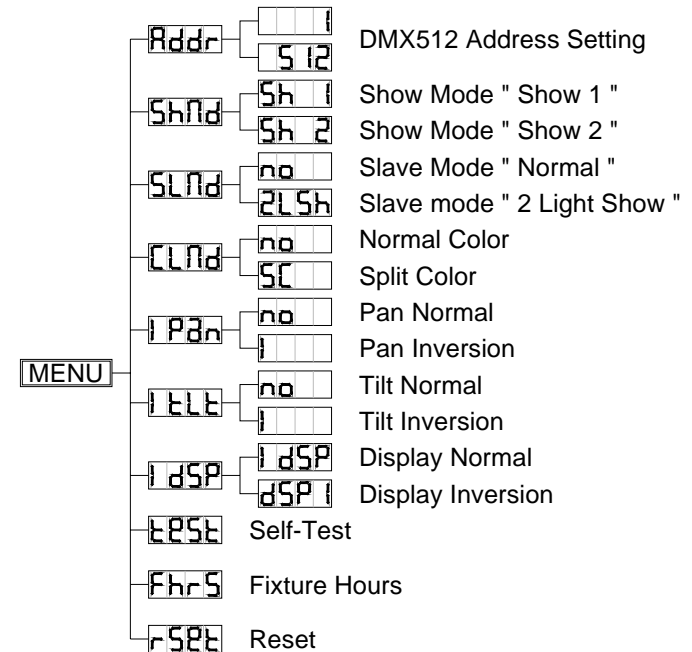
By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. You have to set the first unit in master mode **Shnd** and select **Sh 1** (show 1) or **Sh 2** (show 2) mode. 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 be set in slave mode **SLnd** and select **no** (normal) or **2LSH** (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), **no** means the unit works normally and **2LSH** means 2-light show. In order to create a great light show, you can set **2LSH** on the second unit to get contrast movement to each other, even if you have two units only.

4.2 Main Function

To select any of the given functions, press the **MENU** button until the required one is showing on the display. Select the function by pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons 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 until **Addr** is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to change the DMX512 address. Once the address has been selected, press the **ENTER** button to setup or the unit will 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 until **SHnd** is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select **SH 1** (show 1) or **SH 2** (show 2) mode. Once the mode has been selected, press the **ENTER** button to setup or the unit will 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°.

SLnd Slave Mode

Press the **MENU** button until **SLnd** is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select **no** (normal) or **2LSH** (2 light show) mode. Once the mode has been selected, press the **ENTER** button to setup or the unit will 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 until **IPan** is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select **no** (normal) or **i** (pan inversion) mode. Once the mode has been selected, press the **ENTER** button to setup or the unit will 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.

ITLT Tilt Inversion

Press the **MENU** button until **ITLT** is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the **no** (normal) or **i** (tilt inversion) mode. Once the mode has been selected, press the **ENTER** button to setup or the unit will 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

This function allows you to read the display whether you install the unit on the floor or under ceiling. Press the **MENU** button until **IDSP** is blinking on the display. Use the **ENTER** button to change to the mode **dSP 1** (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 1 Display inversion mode for the fixture fixing under ceiling.

TEST Self-Test

Press the **MENU** button until **TEST** is blinking on the display. Press the **ENTER** button and the unit will run the built-in self-test program. To go back to the functions, press the **MENU** button again.

8- Fhrs Fixture Hours

Press the **MENU** button until **Fhrs** is blinking on the display. Press the **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 until **rSET** is blinking on the display. Press the **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.