**Technical Specifications**

| | | |
|---|---|---|
| Power | AC 120V~60Hz | AC 230/240V~50/60Hz |
| Fuse | 20mm Glass 6.3A Fast Blow | 20mm Glass 5A Fast Blow |
| Lamps | 1 x 24V 250W<br>Part No. ELC3 24V 250W (300 Hrs) | |
| Dimension | 290mm x 330mm x 380mm / 11.42in x 12.99in x 14.96in | |
| Weight | 11 kgs / 24.2 lbs | |

User Information (Please complete for your records)

Data Purchased : / / Serial No. :

Dealer Stamp : Model : Mini Legend DMX-425

CHAUVET®

Value • Innovation • Performance

# Mini Legend

## DMX-425

## User Guide

Please read these instructions carefully before use


**World-wide Headquarters:**

**3000 North 29th Ct., Hollywood, Florida, USA, FL 33020**

**Tel: +1-954-929-1115 Fax: +1-954-929-5560**

**www.chauvetlighting.com**

## 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.

EN55014-1: 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

**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 NSD 15OW or HTI 150W. 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 is 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 TA: 40_. Don't operate it at where the temperature is higher than this.
- Unit surface temperature may reach up to 85C. 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.



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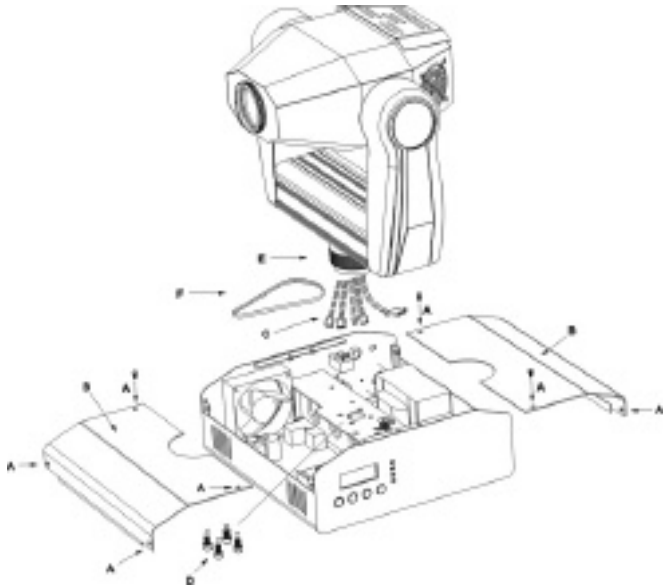
**G. If The pan belt is broken**

1. Turn off the main power.
2. Unscrew all the screws (A) and open the base-housing cover (B).
3. Unplug all the connect wires (C) that from the arm to PC board and ignitor.
4. Unscrew the screws (D) that fix the axis gear (E).
5. Change a new belt (F) by going through all connect wires that from the arm to base, and through the bridge for correct position.
6. Set up the gear axis to the bridge and screwed it. Note : do not press the belt.
7. Put the belt around the axis gear and motor gear.
8. Plug all the connect wires (C) that form the arm to PC board and ignitor.
9. Adjust the pan home position.
10. Screw the base-housing cover (B).



## 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 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 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 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.



**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 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 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 15kgs for each unit.

## 2. Technical Specification

∞ **Power supply**
- AC 120V~60Hz
- AC 230/240V~50/60Hz

∞ **Lamp**
- ELC3 24V 250W (300 Hrs)

∞ **Optical system**
- Standard 11° focused beam angle.
- Focus can be adjusted by manual.

∞ **Gobo wheel**
- Independent gobo wheel with 14 gobos plus open and shutter.
- Blackout, and strobe speed variable(1~7 flashes per second).

∞ **Color wheel**
- Independent color wheel with 11 dichroic mirrors plus white.

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

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

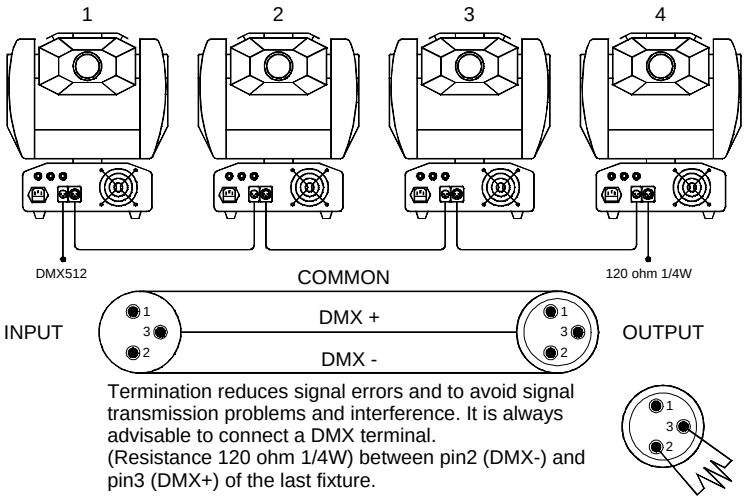
Channel 1 = Shutter
Channel 2 = Gobos
Channel 3 = Colors
Channel 4 = Pan motion
Channel 5 = Tilt motion

∞ **Dimension :** 290mm x 330mm x 380mm / 11.42in x 12.99in x 14.96in

∞ **Weight :** 11 kgs / 24.2 lbs

## 5.5 DMX512 Connection

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




Termination reduces signal errors and to avoid 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. 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 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.

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 (+)

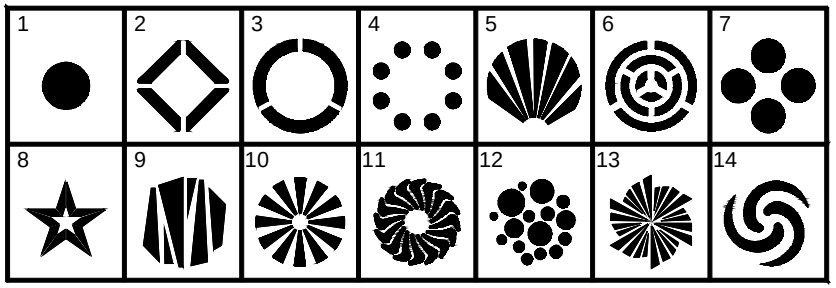


## 5.4. DMX512 Configuration

DMX512 CONFIGURATION

| CHANNEL 1 | CHANNEL 2 | CHANNEL 3 | CHANNEL 4 | CHANNEL 5 |
|---|---|---|---|---|
| SHUTTER | GOBO | COLOR | PAN | TILT |
| 255 | 255 Fast | 255 Fast | 540¡ã | 270¡ã |
| Gobo Sharking 196 | | | | |
| | Slow | Slow | | |
| Gobo/Color 136 | 128 Gobo 14 | 128 Magenta | | |
| | 120 Gobo 13 | 121 Yellow | | |
| | 112 Gobo 12 | 110 Blue | | |
| | 104 Gobo 11 | 99 Light green | | |
| | 96 Gobo 10 | 88 Pink | | |
| | 88 Gobo 9 | 77 Purple | | |
| Color 92 | 80 Gobo 8 | 66 Red | | |
| | 72 Gobo 7 | 55 Amber | | |
| | 64 Gobo 6 | 44 Light blue | | |
| | 56 Gobo 5 | 33 Orange | | |
| | 48 Gobo 4 | 22 Green | | |
| | 40 Gobo 3 | 11 White | | |
| Gobo 16 | 32 Gobo 2 | | | |
| | 24 Gobo 1 | | | |
| | 16 Open | | | |
| | 8 Blackout | | | |
| Stopped 0 | 0 | 0 | 0¡ã | 0¡ã |

GOBOS



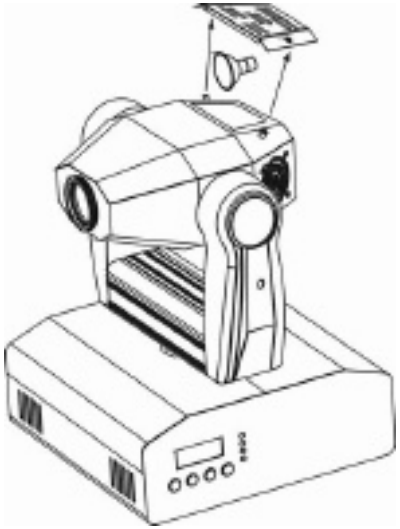
## 3. Lamp

**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.**

∞ Lamp :
ELC3 24V 250W (300 Hrs)

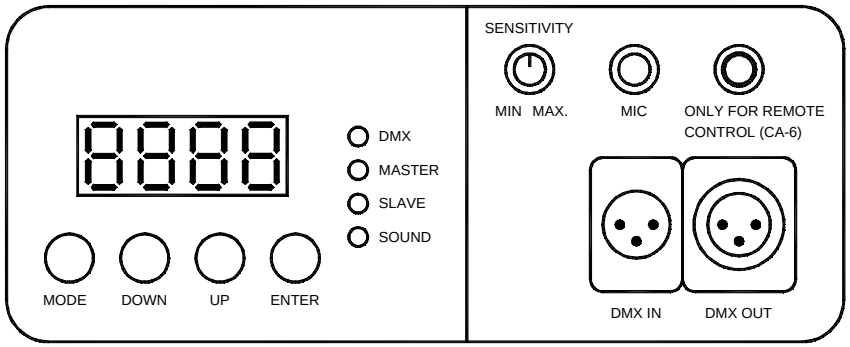
1. Always switch off the main supply and never handle the lamp or luminaries when is hot.
2. Do not touch the bulb with bare hands. If this happens, clean the lamp with denatured alcohol and wipe it with a lint free cloth before installation.
3. Never operate the lamp without appropriate shielding.
4. 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 shows the various menu and the selected 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**

By connect to 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**

To 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 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 unit.

2. **STROBE/NEXT** : Under FAST mode, the light will strobe in three different ways:

a.) Strobe in different gobos and colors.

b.) Synchronous strobe in white color.

c.) Two-light strobe in white color.

If the unit in slow mode, press NEXT button to choose desired color and gobo. It will change ten colors and then change one gobo.

3. **FAST/SLOW** : When the LED is off, it is in FAST mode. The unit's movement- Pan/Tilt & Gobo/Color is sound activated. If the LED on, it is in SLOW mode, Pan/Tilt is sound activated but Gobo/Color wheel are static, controlled by Next button.

## 5.3 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.


## 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 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 AE-5 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/Slaver Built In Preprogrammed Function

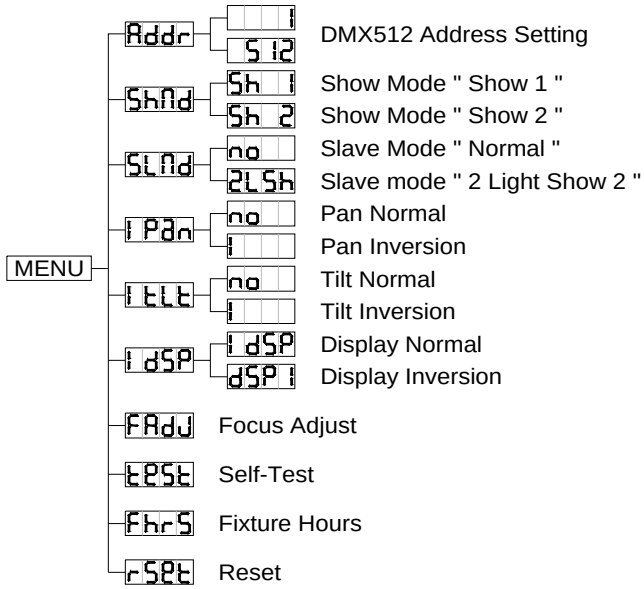
By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. You have to set the first unit in master mode ShMd and select Sh 1 (show 1) or Sh 2 (show 2) 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 set in slave mode SLMd 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 SLMd (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 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.

**Show Mode**

Press the **MENU** button up To when the ShnD is shown 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) 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°.

**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 no (normal) or 2LSh (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.

**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.

**Tilt Inversion**

Press the **MENU** button up to when the iTLt 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.



**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 dSPi (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.
dSPi Display inversion mode for the fixture fixing under ceiling.

**Focus Adjust**

Press the **MENU** button up to when the FAdJ is blinking on the display. Pressing **ENTER** button, the unit will focus on tilt 90°, and then the unit will focus on pan 0°, pan 90°, pan180°, pan270° in every pressing **ENTER** button. To go back to the functions press the **MENU** button again.

**Self-Test**

Press the **MENU** button up to when the tESt 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.

**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.

**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.