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Moving Head Spot

Professional Lighting Technology









User Guide

Please read these instructions carefully before use

Note			

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1. Safety Instruction



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 MSD 250W. 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 Ta: 40°C. Don't operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 85°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.

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

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ЗА

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

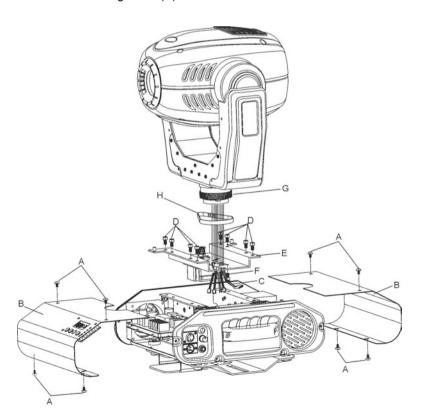
We declare that our products (remote controller) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

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

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



Warning

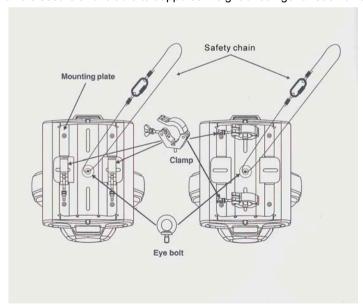
- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- Never touch bulb with bare fingers, as it is very hot after using.
- Hot lamp explosion hazard. Do not open the unit within five minutes after switching off.
- Do not start on the unit without bulb 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 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 30 kgs for each unit.



2. Technical Specification

Power supply

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

Lamp

- Discharge lamp MSD 250W GY9.5

Optical system

- Standard 13° focused beam angle.
- Focus adjustable by DMX control

Shutter/Dimmer

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

Gobo wheel

- Independent gobo wheel with 7 gobos plus open, gobos are interchangeable: 4 metal gobos, 2 glass gobos, and 1 effect gobo. 3 additional metal gobos and 2 effect gobos are included.
- Gobo wheel rotates with variable speed. Shaking effect included.

Color wheel

- Independent color wheel with 9 dichroic mirrors plus white.
- Color wheel rotates with variable speed, giving rainbow effect.

Prism - 3-facet prism rotates in both directions at variable speeds

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 = Pan motion	Channel 9 = Gobo
Channel 2 = Tilt motion	Channel 10 = Gobo Rotation
Channel 3 =Pan/Tilt Speed select	Channel 11 = Prism
Channel 4 = Dimmer	Channel 12 = Prism Rotation
Channel 5 = Shutter/ Shaking	Channel 13 = Focus
Channel 6 = Color	Channel 14 = Pre-programmed Show Pattern
Channel 7 = No Function	Channel 15 = Pre-programmed Beam Pattern
Channel 8 = Reset	Channel 16 = Reset

Dimension: 360mm x 397mm x 503mm (L x W x H)

Weight: 26 kg

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.
- 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

- 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

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- 1. Check the unit that 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

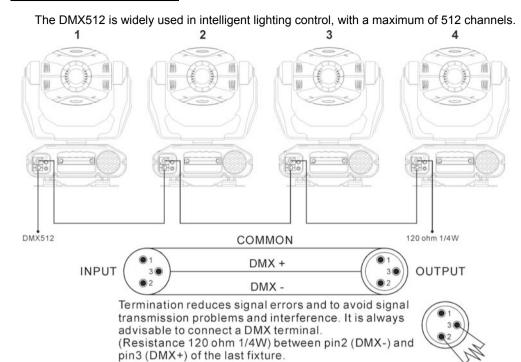
- 1. The stepper motor might be damaged or the cable connected to the PCB is broken.
- 2. The motor's drive IC on the PCB might be out of condition.

F. The lamp is cutting out intermittently

1. The lamp is not working well. Check the main voltage either too high or too low.

Internal temperature may be too high. Check and if necessary replace the fan on the head.

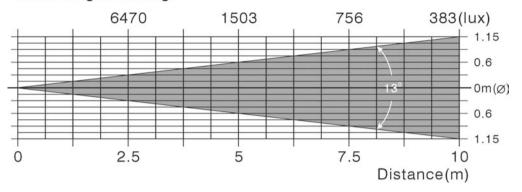
5.5. DMX512 Connection



- 1. If you use a controller with 5 pins DMX connector, you need to use a 5 to 3 pin adapter.
- 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 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.
- 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 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 (+)

Luminous intensity:

Beam Angle: 13 Deg.



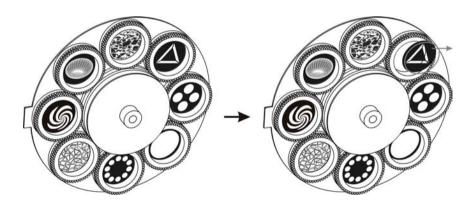
2.1. Inserting/Exchanging rotating gobos

DANGER!

Install the gobos with the device switched off only.
Unplug from mains before changing gobos!

Open the cover by loosening the fastening screw at the sides of the cover.

If you wish to use other forms and patterns as the standard-gobos, or if the gobos are to be exchanged, remove the fixation ring with an appropriate tool. Remove the gobo and insert the new gobo. Press the fixation-ring together and insert it in the front of the gobo.



CAUTION!

Never unscrew the screws of the rotating gobo as the ball bearing will otherwise be opened!

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.

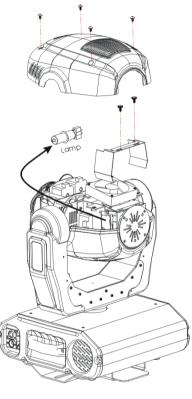
Because of its high internal pressure, there might be a risk that the Discharge lamp would explode during operation. The lamp emits intense UV radiation which is harmful to the

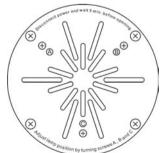
eyes and skin. The high luminance of the arc can cause severe damage to the retina if looks directly at the lamp.

Discharge lamp:

MSD 250W

- 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. 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.
- 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.





DMX-512 Configuration(2)

Channel 11	Channel 11 Channel 12		Channel 14	Channel 15	Channel 16	
Prism	Prism Rotation	Focus	Pre-programmed Show Pattern	Pre-programmed Beam Pattern	Reset	
255 ON 128 ON	255 Stop Fast Prism Rotation 135 Slow Stop Slow Prism Rotation 10 Fast Stop 10 Fast Stop	255 E	255 Show 2 30 und Show 1 224 Sound Show 1 224 Show 2 Auto 2 32 DMX512 Controller 0	255 Mixed 240 Prism+ 208 Prism 192 176 Shaking 144 128 Strobe 112 96 80 Rotating gobo 64 48 32 Gobo + Color 0	255 Reset	



activated.

7A





Gobo 3



Gobo 4



Gobo 5





Gobo 6

- i.) Channel 14 Pre-programmed show pattern:
 - 1.) DMX value 0-31,the fixture is still controlled by DMX control .
 - 2.) For DMX Value above 31,all the DMX control will be invalid .The fixture will run the pre-programmed show patterns(Pan/Tilt movement).
- ii.) Channel 15-Pre-programmed beam pattern:One can select the beam pattern only when the pre-programmed show pattern is
- iii.) For DMX Reset, put DMX value of CH-8 & CH-16 to 255.

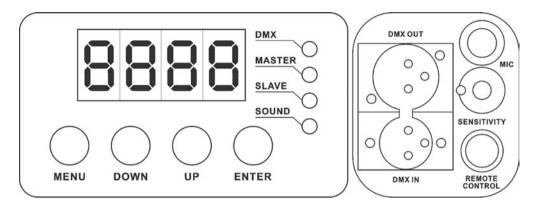
5.4. DMX512 Configuration

DMY-512 Configuration(1)

DMX-512 Configuration(1)						
Channel 1	Channel 2	Channel 3	Channel 4	Channel 5		
Pan	Pan Tilt		Dimmer	Shutter Shaking		
540°	270°	255 — Slow	255 - 100%	Gobo Shaking		
270°	135°					
0°	0°	0 ► Fast	0 ┗ 0% Channel 9	Channel 10		
Channel 6	No Function	Channel 8 Reset	Gobo	Gobo Rotation		
255 Fast Loop Slow Light green Yellow UV purple Pink Red Light blue Green Orange Blue White	255 — 128 —	255 PReset	255 Fast Loop 128 Slow Gobo 7 112 Gobo 6 96 Gobo 5 80 Gobo 3 48 Gobo 2 Gobo 1 Open	255 Stop Fast Gobo Rotation 135 Stop Stop Stop Stop Stop Stop Stop Stop		

4. How To Set The Unit

4.1. Control Panel



Display

To show the various menus and the selected functions.

8A 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, Strobe/Next and Show 1/Slow/Show 2 function.

Sensitivity

To adjust the sound-receiving sensitivity.

Microphone

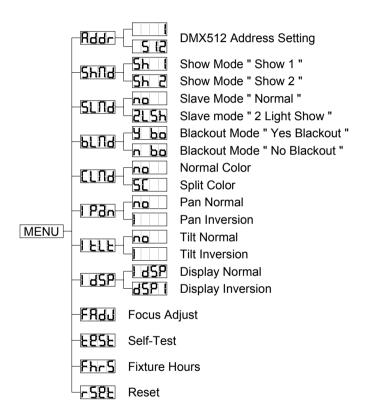
To receive audio signal for sound activation.

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:



5.2. Easy Controller

The easy remote controller 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/Strobe and Show 1/Slow/Show 2 functions.

- 1. STAND BY: To blackout all the units.
- 2. FUNCTION STROBE/NEXT/STROBE

Under SHOW 1 and SHOW 2 mode, the units 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.

Under SLOW mode, press FUNCTION button to choose desired color and gobo. It will change ten colors and then change one gobo.

3.MODE - SHOW 1/SLOW/SHOW 2

When the LED is off, it is in SHOW 1 mode, and blinking in SHOW 2 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 **Podr** 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 AE16 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 blackout in H bo (yes blackout) or h bo (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 5h (show 1) or
Sh 2 (show 2) mode 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 SLAd and select no (normal) or SLSH (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	ՏԼՈԺ	(slave	mode),	no	means	the	unit	works	normally	and	2L Sh	means
2-I	ight show	ı. In ord	er to cre	ate a gre	at light s	show	you	can se	t 2LSh	on th	e second	d unit to
ge	t contrast	moven	nent to ea	ach other	, even if	you l	nave	two uni	ts only.			

Press the **MENU** button up to when the **Poor** 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 Shill is showing on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to select the Shill (show 1) or Shill (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.
Press the MODE button from the easy controller to select the Shall (show 1) or Shall (show 2) mode. When the LED is off, it is in SHOW 1 mode, and blinking in SHOW 2 mode Show 1 mode- Fixture is placed on the floor. Tilt movement angle 210°
Show 1 mode- Fixture is placed on the floor. Tilt movement angle 210°. Show 2 mode-Fixture is fixed under ceiling. Tilt movement angle 90°.
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 no (normal) of PLSH (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.
Blackout Mode

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Press the **MENU** button up to when the **blad** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **black** (yes blackout) or **black** (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.

Color Mode
Press the MENU button up to when the Lind is shown on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to select the (normal) or (split color) 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 Pan is shown on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to select the (normal) or (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 DOWN and UP button to select the DOWN (normal) or (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.
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 display is blinking on the display. Use the ENTER button to change to the mode display inversion), It will automatically store after 8 seconds. Or press the ENTER button again return to the mode display normal). To go back to the functions press the MENU button.
Display normal mode for the fixture putting on the floor. Display inversion mode for the fixture fixing under ceiling.

Focus Adiust

Press the **MENU** button up to when the **FROU** 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°, pan 180°, pan270° in every pressing ENTER button. Use DOWN and UP button to adjust focus. To go back to the functions press the **MENU** button again.

Press the **MENU** button up to when the **EESE** 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 11A functions press the **MENU** button again.



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