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LE60

60w LED Moving Head Spot

User's instruction manual

This manual contains important information about the safe installation and use of this product
Please read this instruction manual carefully before installing or operating
Please keep these instructions in a safe place for future reference
V1.00

Contents

Introduction

Thank you for the purchase of your LE60 LED Moving Head Spot by Light Emotion. We are confident you will be satisfied with your purchase and enjoy many years of use from this Professional Light Emotion product. Please read these instructions carefully to ensure the product is well look after and used correctly to avoid any potential problems.

Please note that as part of our ongoing commitment to continuous improvement and product development, the specifications in this manual are subject to change without notice. Whilst every care has been taken in the preparation of this manual we reserve the right to change specifications in the course of product improvement.

What is in the box:

- 1 x LE60 Moving Head
- 1 x Power Cable
- 1 x Mounting bracket
- This user manual

1. Safety Instructions:

Please read these instructions carefully. It includes important information about the installation usage and maintenance of this product.

- Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage and that the line voltage you are connecting to is not higher than that stated on the sticker of the fixture.
- This fixture is designed for indoor use only and cannot be used for outdoor applications or exposed to moisture.
- Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surface. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing.
- Secure fixture to stands, trussing and the like using a safety chain.
- Due to the fact this is a moving head, be sure that the movement of the head is free from any obstructions which could damage the unit if come into contact.
- Maximum ambient temperature is 40°C. Do not operate fixture at temperatures higher than this.
- 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 centre.

- Make sure power cord is never crimped or damaged.

- Never disconnect power cord by pulling or tugging on the cord.

- Never carry the fixture directly from the cord. Carry by holding the chassis of the unit.

- Avoid direct eye exposure to the light source while it is on.

2. Installation:

Caution: For safe mounting of this product, please read the following carefully.

- When mounting the product, do not stand directly underneath the product.
- When mounting in fixed installation, use the provided brackets. Please ensure the unit is being attached securely to any surface – consult a professional for the installation if need be.
- Always use a safety chain when mounting the product on stands, trussing or bars. Make sure the breaking strain rating of the chain is at least 10 times the weight of the product.
- Product will work in either upright or upside down orientation. It cannot work in a perpendicular orientation where the base is on the side as such – for example you cannot mount the base to a wall with the moving head protruding out from the wall – this will cause severe damage to the driver motors and ultimate failure.
- Make sure there is adequate ventilation around the product.
- Never look directly into the LED light sources of the product.
- Keep out of reach of children.

3. Features

This product is designed as a professional LED moving head and is only intended to be used as such for entertainment, display and architectural applications. Due to our ongoing commitment to constantly reviewing and improving products, features and specifications are subject to change without prior notice.

- LED: 60w white LED source with average 50000 hours lifespan   -
- Beam angle：12º
- Control: DMX, built-in programs, sound activation and Master/slave
- 9 and 11 channel DMX modes
- Pan 540 º Tilt 230 º
- 0-100% linear dimming
- LCD display menu with 4 control buttons
- Colour Wheel: 7 colours + open, rainbow flow effect
- Gobo Wheel: 7 fixed gobos + open, flow effect and gobo shake
- Weight: 3kg
- Product size: 194x151x285mm

4. Menu Operation

Used for setting up or operating the product without DMX control

Menu: Press each time to access features – see table below.
UP: Increase setting
DOWN: Decrease setting
Enter: Confirm and save setting.

Menu Table:

Show	Value	Function
Addr	001 – 512	DMX Address
Chnd	9 Ch 11 Ch	Choses 9 or 11 DMX channel mode
Shnd	Sh 1 Sh 2 Sh 3 Sh 4	Show 1-4
SLnd	Nast SL 1 SL 2	Master Slave 1 Slave 2
Soun	On oFF	Turn on or off sound activation (used in conjunction with Shows 1-4)
Send	0-99	Sound sensitivity level adjustment
Blnd	Yes no	Blackout mode
Pan	Yes no	Pan Inversion
Tilt	Yes no	Tilt Inversion
Led	On oFF	LED Display – turns on or off the LED menu display on the fixture
DISP	dISP dSIP	Display Normal Display Inversion (for example when the fixture is mounted upside down from trussing or lighting stands)
Test		Auto test
Tenp		Displays fixture temperature in degrees C

Hour		Fixture use time over its lifetime
rSET		Reset

Focusing

The focus of the beam can be adjusted by twisting the front lens on the moving head. When the beam appears blurry, you can turn the lens to focus the beam. The degree of focus will depend on the distance of the projection. Please ensure the light is not moving when focusing.

5. Stand Alone Operation.

To run the fixture in stand alone mode, chose Shnd from the menu, then selct one of the 4 inbuilt shows to play. To have the shows move through their sequence via sound activation, you then select Soun from the menu, press enter to toggle whether the sound activation is on or off.

6. Master/Slave operation

Master/Salve operation is achieved by choosing SLnd from the menu. In order to use master/slave, you need to connect the fixtures together using their DMX inputs and outputs (see under DMX connections regarding connecting the fixtures to each other). On the first unit, you chose "nast" from the menu – a light will show up indicating that fixture is the master. On the slave units, chose SL1 or SL2. The slave units will then run a show coordinated by the master using the built in programs.

You can also choose to invert the pan and/or the tilt from the menu which allows fixtures to mirror each other in certain shows. This is especially useful when you have say one on either side of a stage and you desire for the beams from the shows to look more like they are coming together or moving away together.

7. DMX Channel Allocation and functions tables.

There are 2 different DMX profiles for this fixture – 9 channel and 11 channel mode. In 11 channel mode, the two extra channels offer fine pan and fine tilt meaning the user, when the fixture is controlled via DMX, can precisely position the beam where they would like. For most moving light shows 9 channel mode without fine pan and tilt will do the job, but over longer distances or when precise positioning is required to say highlight a specific part of a venue, then the fine pan and tilt will allow fine tuning of the position of the beam.

The following is the DMX channel allocation for this fixture in both 9 and 11 channel DMX modes.

Function	Value	Mode 9CH	Mode 11CH
Pan	0-255 - 0° to 540°	1	1
Pan Fine	0-255		2
Tilt	0-255 - 0° to 230°	2	3
Tilt Fine	0-255		4
Pan/Tilt motor speed	0-255 From fast to slow	3	5
Dimming	0-255 - 0-100%	4	6
Strobe	0-7 - No function 9-99 - Strobe from slow to fast 100-149 - Strobe from fast to slow 150-199 - Strobe effect 1 200-245 - Strobe effect 2 246-255 – Full on (no strobing)	5	7
Colour	0-7 – White (no colour) 8 Red 16 Green 24 Blue 32 Yellow 40 Magenta 48 Cyan 56 Pink 64 Half white & red 72 Half red & green 80 Half green & blue 88 Half blue & yellow 96 Half yellow & magenta 104 Half magenta & cyan 112 Half cyan & pink 120 Half pink & white 128-191 Rainbow effect reverse colour order slow to fast 192-255 Rainbow effect in colour order slow to fast	6	8
Gobo	0-7 Clear (no gobo) 8 Six pointed star-like gobo 16 Square lightning-bolt-like gobo 24 Six blade fan-like gobo 32 Standard five pointed star gobo 40 Six random ovals gobo 48 Atomic orbits-like gobo 56 Five diamonds in a star formation gobo 64-127 Gobo shake for above each of the above 128-191 Gobo flow in reverse gobo order 192-255 Gobo flow in gobo order	7	9

Sound activated shows	0-127 No function 128 Show 1 160 Show 2 196 Show 3 228 Show 4	8	10
Speed / Reset	0–235 – Sensitivity and speed of shows 236-255 Reset	9	11

8. DMX-512 Control Connection

Using a 3 pin XLR cable, you can connect the product to a DMX controller and then to other fixtures with 3 pin XLR inputs and outputs. When not using DMX, multiple fixtures can be connected together and operate under master/slave control. The signal cable should have two core with shielded cable, the signal connectors are XLR input and output connectors. Please refer to the below diagram:

DMX output   DMX Input

1: Ground
2: Signal (–)
3: Signal (+)

9. DMX Address Setting

When being used in conjunction with a DMX controller, each fixture must be set a specific starting address. When receiving signal, fixture will receive channel control signals of this address from the DMX controller.

For simplicity, the user can use the same address for multiple fixtures but this will result in each fixture providing exactly the same output and fixtures with the same DMX address cannot be individually controlled.

To control each fixture individually via DMX, each fixture must have its own unique DMX address. Depending upon which DMX mode this fixture is set in, the individual DMX addresses must be separated by at least the same number of channels. For example in 9 channel mode, the DMX addresses must be at least 9 channels apart.
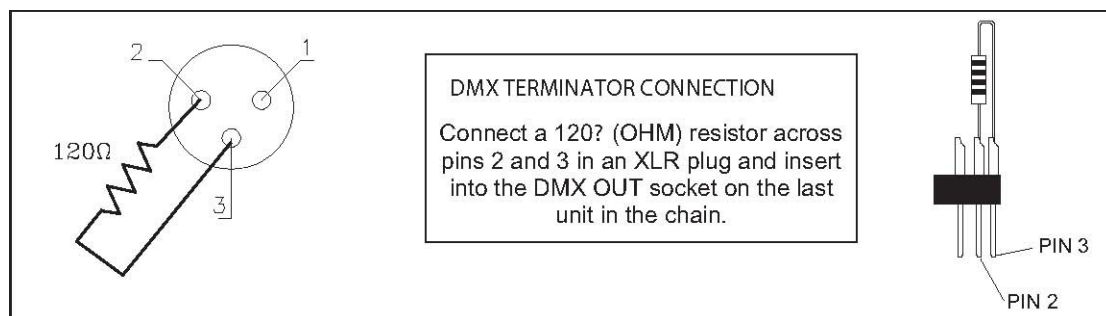
So for example – assuming the first fixture is DMX channel 1 and we are in 9 channel DMX mode, the second fixture would need to be on channel 10, then the 3rd channel 19 and so on. Some DMX controllers may group fixtures in lots of 16 channels – so in that case, fixture 1 on

channel 1, fixture 2 on channel 17, 3 on 33, and so on. Refer to your DMX controllers' instruction manual on how best to manage your DMX channel allocation.

10. DMX Terminator:

A DMX terminator helps to reduce 'noise' on the DMX chain, and makes the light respond to control more accurately. It should be plugged in to the last fixture in any chain. For Terminator connections please see below:

11. Cleaning and maintenance

From time to time it is recommended the product is cleaned to ensure maximum light output and performance. Before cleaning, please unplug mains power from the unit.

Use a wet cloth to clean the housing as well as the lenses and base. Glass cleaner is also suitable but alcohol based cleaners and solvents cannot be used as they will cause damage to the product.

When used in a fixed long term installation such as a venue or club, the unit should be periodically taken down from the installation and professionally cleaned. Dust build-up within the unit can cause damage and ultimately failure of components.

The manufacturer's recommended regularity of cleaning is once every 3 weeks for the exterior lens and every two months for the interior optics.

12. Technical Data

- Input voltage: 90-240VAC, 50 or 60Hz
- Power consumption: 65W
- LEDs: 1 high powered 60W LED with average 50000 hours lifespan
- Beam angle: 12º
- Control: DMX or on-board built-in programs, sound activation, master/slave
- 9 or 11 DMX channel mode
- Colour wheel: 7 colours + open (white), rainbow/flow effect
- Gobo wheel: 7 gobos + open (clear), gobo shake and gobo flow effect
- Electronic strobe rate: 1-25Hz
- Dimming: 0-100% linear dimming
- Built in programs
- Pan 540˚
- Tilt 230˚
- Weight: 3kg / 5kg gross
- Packed Dimensions: 194x151x285mm

13. Warranty

This product is warranted for 24 months (2 years) from your purchase date. We are confident that this product will give many years of trouble-free operation but should an unlikely problem arise, warranty claims must be via the original place of purchase, together with the original purchase receipt. Please keep both your original purchase receipt and this instruction manual together and in a safe place for future reference. Should the product be sold within the warranty period, be sure to pass on both to the new purchaser so they are able to claim warranty should they need to. We recommend you register your warranty online at www.industrygear.com.au.

Purchased from:_____

Contact Details:_____

Date Purchased:_____

Invoice/Receipt Number:_____