# MINI-GOBO-MOVING-HEAD-LIGHT

WARNING
MINIMUM DISTANCE OF INFLAMMABLE
MATERIALS FROM THE SURFACE 0.20m
MAXIMUM TEMPERATURE OF
THE EXTERNAL SURFACE 120°C

0.5m

MENU   UP  DOWN ENTER

MIC

# *User Instructions*

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOU INITIAL START- UP !**

## Document Version

Due to additional product features and/or enhancements, an updated version of this document may be available online. Please check product page for the latest revision/update of this manual before beginning installation and/or programming.

## Unpacking

Thank you for purchasing the Mini Gobo Moving Head Light. Every unit has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact our customer support for further instructions. Do not return this unit to your dealer without first contacting customer support.

## Features

• Individual Color and Gobo Wheel
• 7 Colors + White
• 7 Gobos + White
• Electronic Dimming 0-100%
• DMX-512 protocol
• 3-Pin DMX Connections
• 2 DMX Channel Modes: 9/11

## Technical Parameters

• Voltage: AC 100-240V 50/60Hz
• Control Modes: DMX-512 /Automatic Run/Sound Activated/Master-slave
• Color Wheel: 7 Colors + Open White
• Gobo Wheel: 7 Gobos + Open White
• Pan/Tilt: Pan-540-degrees/Tilt-205-degrees
• Net Weight: 5.40 lbs. (2.45kg)
• Product Size: 6.9" x 5.7" x 11.2" (L xW x H)

## Included

1 x Power Cable
1 x Mounting Bracket
1 x Moving Head Light
2 x Screws

## Safety Guidelines

(1) The floor operated seat must be used.

(2) To avoid fire or electric shock, do not expose the device to rain or moisture, and make sure there are no flammable objects during operation.

(3) Install the device in a well-ventilated place at least 50cm away from any surface to ensure that the ventilation duct is not blocked.

(4) Disconnect the device from the power supply before carrying out any work or maintenance.

(5) The ambient temperature should not exceed 40℃, and the maximum ambient

temperature is 45℃,Do not operate the device at a higher temperature.

(6) In case of breakdown, do not repair the device by yourself, because you should stop using the device immediately. Improper maintenance can lead to damage and failure. Please contact Technical Support for approval,For repairs or replacements, use only the same accessories as the original parts to ensure that the power cord does not become blocked or damaged.

(7) Lights and lanterns for decorative purposes only, not suitable for ordinary household lighting.

(8) Spare fuse: Disconnect the device from the power supply and remove the fuse seat with a screwdriver, Remove the blown fuse.replace the same features and connect the device to the power supply.

(9) Warning: lf the fuse still burns after replacing it, stop using it, See below for further instructions.Please contact customer service, continued use may cause serious damage

(10) Fix the device to the bracket with screw holes to ensure that the device is securely fixed to prevent vibration and movement during operation,and start to check whether the structure of the supporting device is strong enough to at least 10 times the weight of the device, please read this manual carefully before operating this product.

(11) product scrap; This sign indicates that the product must not be thrown in our household waste.To protect the environment and human health, waste is recycled in a responsible manner to support the sustainable reuse of resources. For information on recycling used devices, go to device manual collection point or contact the retailer where you purchased the product who arranges for the ecological recycling of the product.
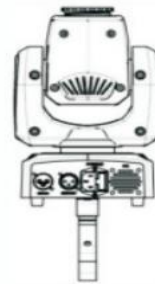
## Overview
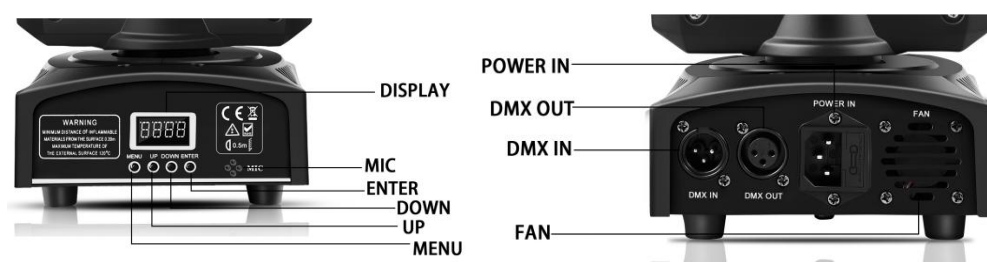
# Installation

| | | | |
|---|---|---|---|
| Screw one clamp via a screw and nut into the bracket. | Attach the bracket to the respective holes located on the bottom of the fixture. | Tighten and secure the bracket screws. | Confirm your mount is successfully installed. |

*Note*:
1. The package does not include the hook bracket.
2. The suitable environmental temperature for this lighting fixture is between -20˚ C to 45˚ C. Do not place this lighting fixture in an environment where the temperatures are under or above the temperatures stated above. This will allow the fixture to run at its best and help prolong the fixture life.

# DMX Set Up

*DMX-512*: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

*DMX Linking*: DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

*Data Cable (DMX Cable) Requirements (For DMX Operation)*: The fixture can be controlled via DMX-512 protocol. The DMX address is set on the front panel of the fixture. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output. Your cables should be made with a male and female XLR connector on either end of

the cable. Also remember that DMX cable must be daisy chained and cannot be split.
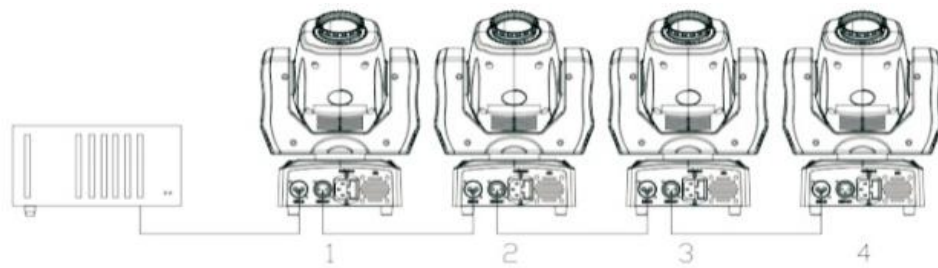


## DMX Addressing

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to "listen" to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way, in other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to "listen" to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

In the case of this moving head light, when in 11 channel mode you should set the starting DMX address of the first unit to 1, the second unit to 12 (11 + 1), the third unit to 33 (12 + 11), and so on. (See the chart below for more details.)

| Channel Mode | Unit 1 Address | Unit 2 Address | Unit 3 Address | Unit 4 Address |
|---|---|---|---|---|
| 9 Channels | 1 | 10 | 19 | 28 |
| 11 Channels | 1 | 12 | 33 | 44 |

# DMX Modes & Values

| Function | Value | Percentage/Settings | 9 Channels | 11 Channels |
|---|---|---|---|---|
| **Pan Movement** | 000-255 | Pan Movement | 1 | 1 |
| **Pan Fine** | 000-255 | Fine Control of Pan Movement | | 2 |
| **Tilt Movement** | 000-255 | Tilt Movement | 2 | 3 |
| **Tilt Fine** | 000-255 | Fine Control of Tilt Movement | | 4 |
| | | **COLOR WHEEL:** | | |
| | 000-009 | Open White | | |
| | 010-019 | Red | | |
| | 020-029 | Green | | |
| | 030-039 | Blue | | |
| | 040-049 | Yellow | | |
| | 050-059 | Orange | | |
| | 060-069 | Light Blue | | |
| **Color Wheel** | 070-079 | Pink | 3 | 5 |
| | 080-089 | Light Blue + Pink | | |
| | 090-099 | Orange + Light Blue | | |
| | 100-109 | Yellow + Orange | | |
| | 110-119 | Blue + Yellow | | |
| | 120-129 | Green + Blue | | |
| | 130-139 | Red + Green | | |
| | 140-255 | Automatic color change from slow to fast | | |
| | | **GOBO WHEEL:** | | |
| | 000-007 | Open White | | |
| | 008-015 | Gobo 1 | | |
| | 016-023 | Gobo 2 | | |
| | 024-031 | Gobo 3 | | |
| | 032-039 | Gobo 4 | | |
| | 040-047 | Gobo 5 | | |
| | 048-055 | Gobo 6 | | |
| | 056-063 | Gobo 7 | | |
| | 064-071 | Open White Shake | | |
| **Gobo Wheel** | 072-079 | Gobo 1 Shake | 4 | 6 |
| | 080-087 | Gobo 2 Shake | | |
| | 088-095 | Gobo 3 Shake | | |
| | 096-103 | Gobo 4 Shake | | |
| | 104-111 | Gobo 5 Shake | | |
| | 112-119 | Gobo 6 Shake | | |
| | 120-127 | Gobo 7 Shake | | |
| | 128-255 | Automatic gobo change from slow to fast | | |

| | | | | |
|---|---|---|---|---|
| **Strobe** | 000-009 | Non-functional | 5 | 7 |
| | 010-249 | Strobe from slow to fast | | |
| | 250-255 | Strobe OFF | | |
| **Master Dimmer:** 0-100% | 000-009 | Light OFF | 6 | 8 |
| | 010-255 | From dark to bright | | |
| **Pan/Tilt Speed** | 000-255 | **PAN/TILT SPEED:** From fast to slow | 7 | 9 |
| **Auto & Sound Mode** | 000-059 | Other channel effects | 8 | 10 |
| | 060-084 | Auto Run mode 3 | | |
| | 085-109 | Auto Run mode 2 | | |
| | 110-134 | Auto Run mode 1 | | |
| | 135-159 | Auto Run mode 0 | | |
| | 160-184 | Sound Activated mode 3 | | |
| | 185-209 | Sound Activated mode 2 | | |
| | 210-234 | Sound Activated mode 1 | | |
| | 234-255 | Sound Activated mode 0 | | |
| **Reset** | | **RESET:** | 9 | 11 |
| | 000-249 | Non-functional | | |
| | 250-255 | Reset | | |

## System Menu

The fixture includes an easy to navigate system menu control panel display where all necessary settings and adjustments are made. (See image below) During normal operation, pressing the MENU button once will access the fixture's main menu. Once in the main menu, you can navigate through the different functions and access the sub-menus with the UP and DOWN buttons. When you reach a field that requires adjusting, press the ENTER button to access that field and use the UP and DOWN buttons to adjust the field. Pressing the ENTER button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the MENU button.
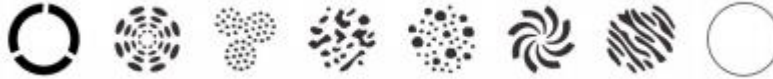
## Gobos & Colors

*7 Colors + Open White:*



*7 Gobos + Open White:*



| MENU | OPTIONS | DESCRIPTION |
|---|---|---|
| **A001** | 001- 512 | DMX Addressing |
| **CHnd** | CH 9 | 9 Channel Mode Selection |
| | CH 11 | 11 Channel Mode Selection |
| **SLnd** | AUTO | Auto Run mode |
| | SH1 | Auto Run mode 1 |
| | SH2 | Auto Run mode 2 |
| **SHnd** | SH0 | Show Mode 0 Selection |
| | SH1 | Show Mode 1 Selection |
| | SH2 | Show Mode 2 Selection |
| | SH3 | Show Mode 3 Selection |
| **SoUd** | ON | Sound Mode Activation On |
| | OFF | Sound Mode Activation Off |
| **SEns** | 0-99 | Sound Sensitivity Adjustment |
| **bLAnd** | bLAc | Auto Run mode Off |
| | Auto | No Effect Auto Run Mode |
| | SOun | No Effect Sound Mode Activation |
| | HoLd | Sound Mode Activation Off |
| **LEd** | OFF | Back Light Setting |
| | ON | |
| **dISP** | Yes | Display Screen Normal / Invert |
| | ON | |
| **rpAN** | ON | Pan Normal |
| | Yes | Pan Invert |
| **rtiL** | ON | Tilt Normal |
| | Yes | Tilt Invert |
| **REST** | Yes / ON | Reset Motors |

## Master-Slave Set Up

*Master-Slave Configuration:*
In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units programs. Any unit can act as a Master or as a Slave.
1. Using approved DMX data cables, daisy chain your units together via the XLR connector on the rear of the units. Remember the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (master) will use the female XLR connector only - The last unit in the chain will use the male XLR connector only. For longer cable runs we suggest a terminator at the last fixture.
2. After setting the Master unit to the master setting find and set your desired operating mode.
3. The slave units will now follow the Master unit.

*Auto Mode:*
Press **MENU** button to find **SLnd**, and press **ENTER** button twice to start the fixture. After starting the automatic mode, press UP/DOWN button to find **Shnd**, press **ENTER** button. Then press **UP/DOWN** button to select **SH0/SH1/SH2/SH3**, and then press **ENTER** button to program the show effects.

*Sound Activated Mode:*
Press **MENU** button to find **SoUd**, then press **ENTER** button, and then press **UP/DOWN** button to find **ON** and Enter to start sound activated mode.
**Note:** The sound activated mode must be closed before other modes can be started.


## Offset Menu

To enter the Offset Menu, press the MENU button to unlock the display, then press the ENTER button for at least 5 seconds. In this submenu you are able to adjust the home position of the pan, tilt, focus, prism, gobo wheel, rotating gobo, and color wheel. To exit this menu press and hold the MENU button.

*Pan Offset* **- Adjustment of the pan home position.**
1. Press the **ENTER** button for at least 5 seconds, then press the **UP** or **DOWN** buttons so that "Pan Offset" is displayed, press **ENTER**.
2. Use the **UP** and **DOWN** buttons to make your adjustments, and then press **ENTER** to confirm. Press the **MENU** button for one second to exit.

*Tilt Offset* **- Adjustment of the tilt home position.**
1. Press the **ENTER** button for at least 5 seconds, then press the **UP** or **DOWN** buttons so that "Tilt Offset" is displayed, press **ENTER**.
2. Use the **UP** and **DOWN** buttons to make your adjustments, and then press **ENTER** to confirm. Press the **MENU** button for one second to exit.

*Color Wheel Offset* - **Setting adjustment for the color wheel.**
1. Press the **ENTER** button for at least 3 seconds, then press the **UP** or **DOWN** buttons so that "Color Offset" is displayed, press **ENTER**.
2. Use the **UP** and **DOWN** buttons to make your adjustments, and then press **ENTER** to confirm. Press the **MENU** button for one second to exit.

*Gobo Wheel Offset* - **Setting adjustment for the gobo wheel.**
1. Press the **ENTER** button for at least 5 seconds, then press the **UP** or **DOWN** buttons so that "Gobo Offset" is displayed, press **ENTER**.
2. Use the **UP** and **DOWN** buttons to make your adjustments, and then press **ENTER** to confirm. Press the **MENU** button for one second to exit.

## Fuse Replacement

Unplug the unit from any power source it may be connected to. Once the power has been disconnected, use a Phillips screwdriver to unscrew the fuse holder located next to the power input. Remove the bad fuse and replace with a new one, and screw the fuse holder back in.

## Trouble Shooting

Listed below are a few common problems the user may encounter, with solutions.
Unit not responding to DMX:
Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other DMX devices pin 2 may be 'hot'). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

## Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.
1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.
Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).