



# LED MINI MOVING HEAD



## User's Manual

**(330) 436-3260 Fax: (330) 436-3283**  
**E-mail: [support@adkinsprolighting.com](mailto:support@adkinsprolighting.com)**

[www.AdkinsProLighting.com](http://www.AdkinsProLighting.com)

**Unpacking:** Thank you for purchasing the LED Mini Moving Head by Adkins Pro Lighting. Every LED Mini Moving Head 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 number for further instructions. Do not return this unit to your dealer without first contacting customer support.

**Installation:** The unit should be mounted using a mounting clamp (not provided), affixing it to the mounting bracket that is provided with the unit. 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 5 times the unit's weight. Also, always use a safety cable that can hold 6 times the weight of the unit when installing the fixture. The equipment must be installed by a professional, and it must be installed in a place where it is out of the reach of people's grasp.

**Caution! No user serviceable parts inside do not attempt repairs. In the event your LED Mini Moving Head should fail, contact Adkins Pro Lighting.**

## Introduction

The Adkins Lighting LED Mini Moving Head is a high quality, high power, intelligent, DMX Light fixture. This fixture can be used in standalone mode, DMX Controller mode or connected in a Master/Slave configuration. Please read these instructions carefully to familiarize yourself with the basic operations of this unit.

**Note:** The data inside this Manual may changed without notifying you due to continuous improvement.

## Safety specifications

- This device is for indoor use only, the protection grade is: IP20
- The installation, operation and maintenance must be managed by the qualified professional, and make sure to operate it under the instruction of the Manual.
- The light was designed to protect against electric shock and must connected to a grounded outlet.
- Please check if the voltage is AC 100-240V/50-60Hz before installing.
- Do not operate when the cover is opened.
- No user serviceable parts inside.
- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Never plug this unit in to a dimmer pack
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- During long periods of non-use, disconnect the unit's main power

- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.

## Features

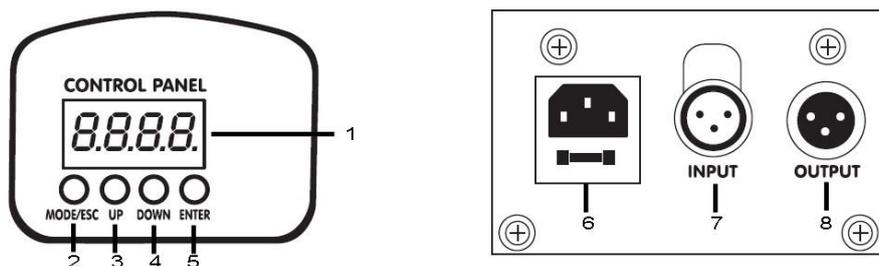
- Control Channels: 5 or 13 DMX Channels
- Control Mode: Sound Active mode, Auto mode, RGBW mode, Master Slave, DMX control mode
- Working Environment: Indoor, -20°-40°
- Mixing Color: RGBW (4 in 1) mixing color
- IP Grade: IP20
- Power Supply: AC 100-240V/50-60Hz
- LED Unites: 7 x 10W RGBW (4 in 1)
- Led Beam Angle: 45 degrees
- Power consumption: 75W
- Weight: 6.2 lb(1pc/CTN)
- Dimensions: 10" x 10" x 9.4"

## Operation

- DMX address setting: The LED Mini Moving Head uses 5 or 13 DMX channels. To set the DMX starting channel address press the MODE button until you see A--- , then use the UP and DOWN buttons to select the desired starting address, then press the ENTER button to save. DMX starting address can be A001 - A512. See the DMX channel functions below.
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### 4. How To Set The Unit

#### 4.1 Control Panel



**Button:**

2 MENU	To select the programming functions
3 UP	To go forward in the selected functions
4 DOWN	To go backward in the selected functions
5 ENTER	To confirm the selected functions

**6 Power input:** Connect to supply outlet.

**7 DMX input:** For DMX512 link, use 3/5-pin XLR plug cable to input DMX signal.

**8 output:** For DMX512 link, use 3/5-pin XLR plug cable to link the next unit.

## 4.2 Main Function

MENU		function
A001		DMX512 / slave mode (to select channel mode by to press enter button)
Run0.	soud	Sound mode
	slou	Slow auto program
	fast	Fast auto program
CoLr		To select RGBW dimming
STEP		To adjust PAN/ TILT position
rpan		PAN Reverse
rtit		TILT Reverse
leon/loff		LED display is turned on at all time/ LED display is turned off after 1min
rest		Machine Reset
load		Restore to factory settings - Initialize

## 5. How to control the fixture

There are three ways to control the fixture

- A. Universal DMX controller
- B. Master/Slave operation
- C. Auto Run

### A. Universal DMX controller

Connect the fixtures to a universal DMX controller and set the DMX starting address for each fixture.

### B. Master/Slave operation

The fixture will allow you to link 16 fixtures together and operate without a controller. In Master/Slave mode, the first fixture will control the others to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. The first fixture it's DMX input cable will have nothing connect it, and the other fixtures will be set in slave mode automatically. Their DMX input cables connect the last fixture DMX output cable (daisy chain). Any fixture can act as a Master or as a Slave

## 6. DMX512 Configuration

### 5 Channel Mode:

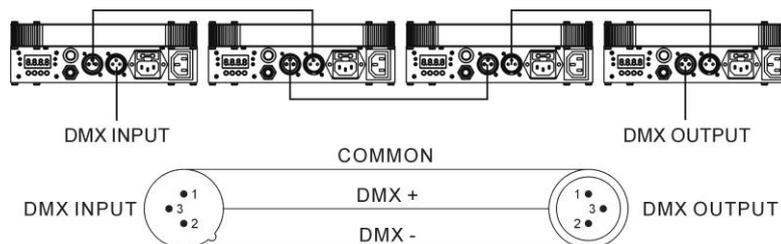
Channel	Value	Function	
CH1	0-255	PAN position	
CH2	0-255	TILT position	
CH3	0-255	PAN / TILT speed	
CH4	0-7	None	(CH5=0)
	8-134	All light(RGBW) are dimmer 0-100%	
	135-239	Strobe	
	240-255	None	
CH5	0	CH4 affectivity	
	1-223	Colors	
	224-235	Color Fade mode	
	236-255	Color Jump change mode	

### 13 Channel Mode:

Channel	Value	Function	
CH1	0-255	PAN	
CH2	0-255	PAN FINE	
CH3	0-255	TILT	
CH4	0-255	TILT FINE	
CH5	0-255	PAN / TILT speed	
CH6	0-7	None	(CH11=0)
	8-134	All light(RGBW) are dimmer 0-100%	
	135-239	Strobe	
	240-255	CH7~CH10 affectivity	
CH7	0-255	Red dimmer 0-100%	
CH8	0-255	Green dimmer 0-100%	
CH9	0-255	Blue dimmer 0-100%	
CH10	0-255	White dimmer 0-100%	
CH11	0	CH7~CH10 dimmer mode	
	1-223	Colors	
	224-235	Color Fade	
	236-255	Color Jump change mode	
CH12	0-2	None	
	3-84	Slow running in AUTO mode	
	85-169	Fast running in AUTO mode	
	170-255	Sound mode	
CH13	0->255	Reset - Initialize	

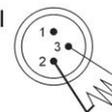
## 7. DMX512 Connections

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.



## 8. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

### A. The fixture does not work, no light

1. Check the Power connection and main fuse.

### 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 the previous light.
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 fixtures 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 fixture. Set the proper address.

### D. No response to the sound

1. Make sure the fixture does not receive 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.

**Customer Support:** Adkins Pro Lighting provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at [www.adkinsprolighting.com](http://www.adkinsprolighting.com) for any comments or suggestions. Service Hours are Monday through Friday 10:00 a.m. to 5:00 p.m. Eastern Standard Time.

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See website for warranty details - [www.adkinsprolighting.com](http://www.adkinsprolighting.com)