

# MEGA **LITE**

# MASS **LED** www



## USER MANUAL

### Table of Contents

Safety Information.....	3
Specifications.....	4
Main Power Connection.....	5
DMX-512 Connection.....	5
Main Control Menu.....	6
DMX Profile.....	7
Rigging the Fixture.....	8
Cleaning & Maintenance.....	8
Parts List.....	8



Check that the unit has not been damaged during transport



Read all cautions and warnings  
prior to operation of this  
equipment

#### Protection Against Fire



Fire

1. Maintain a minimum of 1 foot distance from any type of flame.
3. Replace fuse only with the specified type and rating.
4. Do Not install the unit too close to a heat source.
5. Make sure cables are properly secured
6. Maximum surface operating temperature 113°.

#### Protection Against Electrical Shock



Electrical

1. Disconnect power before servicing.
2. For connection to main power supply proceed to page 5.
3. This unit must be earthed. (electronically grounded)
4. This unit is IP 22 rated (do not expose unit to rain or moisture )

#### Protection Against Mechanical Hazards



Mechanical

1. Use safety chain when hanging unit.
2. Use quality clamps or bolts when positioning unit
3. Do not open unit while it is on, risk of electrical shock.

# Technical Information

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## Part Numbers

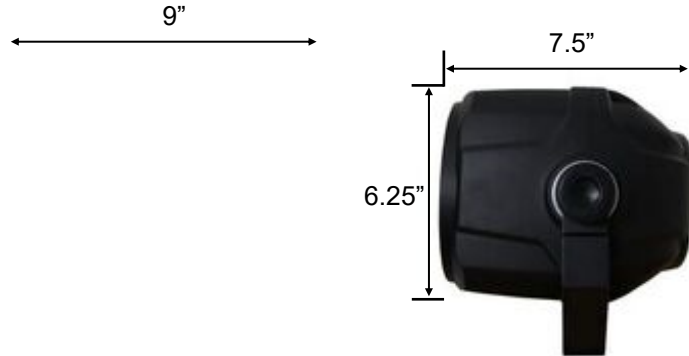
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**4421-MASS LED WW**

## Mechanical Specifications

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**DMX Connectors:** 5 pin XLR Connection  
**Power connection:** Nema 5-15 (cable mounted)  
**Thermal:** Maximum ambient temperature 105°  
Maximum surface temperature 113°  
**Fastening System:** Single Yoke  
**Display:** LED Display  
**Lens Angles:** 60° reflector,  
35° lens (included)



Fixture	Packaging
Size: 9" x 6.25" x 7.5" Weight: 3.75lb	Size: 10" x 8.25" x 11.5" Weight: 4.5lb

## Electrical Specifications

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**LED Quantity:** 1 COB LED Warm White  
**LED Watts:** 100W  
**LED Color Temp:** 3000-3200K  
**LED Lifetime:** 40 to 80 thousand hours average  
**Refresh Rate:** 45000 Hz  
**Power Input Voltage:** 110V-240 50/60 Hz  
**Ballast:** Electronic auto switching  
**Power Consumption:** Watts: 75  
Amps: 1.2

## Control & Programming

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**Protocol:** DMX 512  
**DMX Modes:** 3 Mode Operation  
Mode 3 Channel Dimmer  
Mode 4 Channel Dimmer, Strobe  
Mode 7 Channel Dimmer, Strobe, Macro, Dimming Speed  
**Control Options:** Display preset setting



# Main Power Connection

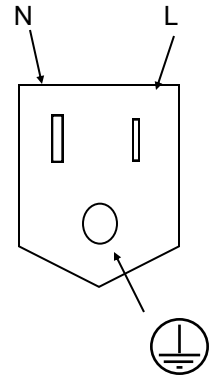
## Caution!

1. Do not connect fixture to a dimmer system.
2. This unit has Auto switching power supply. It will respond to 110V or 240V automatically
3. This unit must be earthed. (electronically grounded)

The occupation of the connection-cable is as follows:

This fixture is equipped with an electronic power supply that will let the unit operate from 100V to 240V from 50Hz to 60Hz

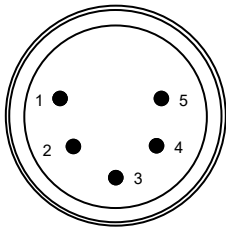
Cable (USA)	Cable (EU)	Pin	110V	220V
Black	Brown	Live	L	L
White	Light Blue	Neutral	N	L
Green	Yellow/Green	Ground		



# DMX-512 Connection

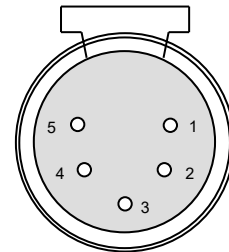
The fixture is equipped with 5 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 5 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

## DMX—Input



1. Shield
2. Signal (-)
3. Signal (+)
4. N/A
5. N/A

## DMX—Output



## Caution!

At the last fixture the DMX signal needs to be terminated with a terminator. Solder a 120 Ohm resistor between the (-) and the (+) signal into a 5 pin XLR plug and plug it in to the last fixture on the signal run. Pre-manufactured terminator plugs are available for purchase from your Mega-Lite dealer (P-DMX-T).

# Display Menu

The control board on the fixture base is your interface to access and control all the functions on the unit. Its digital display gives you a code view of the options and functions. The following will explain each function and its options.

Press **Menu** to access the menu options.

## CONTROL BOARD



### ABOR DMX Address

Press **Enter** to select the DMX start address channel. Use the **up/down** keys to select the desired start address press **Enter** to confirm. (DMX address must match the DMX start channel on the controller)

### CH-- Channel Mode

Press **Enter** to set DMX operational Channel Mode. Use the **up/down** keys to select the desired channel operation mode. Press **Enter** to confirm. (there is 3 options)

### COL- Set Color Menu

Press **Enter** to set Dimmer via display control. Use the **up/down** keys to select the desired dimmer intensity you would like to adjust. Press **Enter** to confirm (255 dimmer settings)

### FADE Fade

This function allows you to select speed for dimmer fading the fixture. Press **Enter** use the **up/down** keys to select desired fade speed (15 options). Press **Enter** to confirm the settings.

### FLASH Flash

This function allows you to select a preprogrammed strobe sequences. Press **Enter** use the **up/down** keys to select desired strobe program (4 options). Press **Enter** to set the desired speed use the **up/down** keys (15 options). Press **Enter** to confirm the settings.

### DI- Dimming Speed

Press **Enter** to select the desired dimming speed when used with a DMX controller. Use the **up/down** keys to select from 0 to 4. 0 speed will be the fastest 4 will be the slowest. Press **Enter** to confirm.

## DMX Profile

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### MASS LED WW 1CH Mode

DMX Channel	Function	Description	Value	Init Value
1	Dimmer	LED intensity	0-255	255

### MASS LED WW 2CH Mode

DMX Channel	Function	Description	Value	Init Value
1	Dimmer	Dimmer	0-255	255
2	Strobe	No Function	0-1	0
		Strobe (slow to fast)	2-85	
		Pulse (slow to fast)	86-170	
		Random Strobe (slow to fast)	171-255	

### MASS LED WW 4CH Mode

DMX Channel	Function	Description	Value	Init value
1	Dimmer	Dimmer Off to Full	0-255	255
2	Strobe	No Function	0-1	0
		Strobe (slow to fast)	2-85	
		Pulse (slow to fast)	86-170	
		Random Strobe (slow to fast)	171-255	
3	Macro	No Function	0-1	0
		Fade All (slow to fast)	2-85	
		Sound Fade (slow to fast)	86-170	
		Sound Snap (slow to fast)	171-255	
4	Dimming Speed	Dim Speed 0	0-50	0
		Dim Speed 1	51-100	
		Dim Speed 2	101-150	
		Dim Speed 3	151-200	
		Dim Speed 4	201-255	

## Rigging the fixture

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### Caution!

1. The installations must be carried out by an authorized dealer or trained professional.
2. Unit may cause severe injuries if you have doubts concerning the safety do not install.
3. Unit is to be 24 inches away from flammable materials (decoration material)
4. Use high quality installation equipment to hang unit.

When rigging a unit it is very important that you follow common safety procedures. Rigging requires extensive experience including but not limited to calculating working loads, material being used and periodic safety inspections. If you lack these qualifications, do not attempt the installation yourself, instead use a professional structural rigger.

When rigging the unit always be secured with a secondary safety attachment. The installation location of the fixture has got to be built in the way that it can hold 10 times the weight for 1 hour with out any harming. Installation should be checked at least one time a year by a skilled person.

## Cleaning and Maintenance

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**Installation Maintenance:** The operator has to make sure that the unit is operating safely and has the installations and electronics checked by an expert every year.

The following points have to be considered during the inspection:

- 1) All screws used for installing the device or part of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, fixation and installation spots (ceiling, suspension, trussing).
- 3) The electronic power supply cables must not show any damages, material fatigue (e.g. porous cables) or sediments.  
Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

**Note:** There is no serviceable parts inside the device. Maintenance and service operations are to be carried out by authorized dealers.

**Replacing the fuse:** Only replace the fuse with the same type and rating. (Line Fuse is located inside the fixture)

**Replacing the power cable:** If the power cable of this device becomes damaged, it has to be replaced by authorized dealers or trained professional only.

**Should you have further questions , please contact your dealer.**

## Parts List

4421-LED	Replacement LED
4421-DRI	LED Driver card
4420-PS	Power Supply
4421-DIS	Display
4420-KN	Knob Set
4420-FP	Frontal Plastic
4420-LEN35	35 Degree Lens
4420-BD	Barn Door



# Warranty Information

## Warranty Conditions

-Unless otherwise stated in writing, your product is covered by a one year parts and labor limited warranty.

-LED's or Lamps are not guaranteed to match in color temperature or output.

-It is the owner's responsibility to furnish receipts or invoices for verification of purchase, date, and reseller or distributor. If purchase date cannot be provided, date of manufacture will be used to determine warranty period.

-Goods returned under warranty must follow the proper authorization procedure and must be accompanied by a copy of the original invoice and Return Authorization Number given by MSI.

-Goods repaired under warranty will be returned to the owner with the freight prepaid by MSI via the most economical means of shipment.

-Repair or replacement as provided for under this warranty is the exclusive remedy of the consumer. MEGA SYSTEMS INC. makes no warranties, express or implied, with respect to any product, and Mega Systems specifically disclaims any warranty of merchantability or fitness for a particular purpose. Mega Systems shall not be liable for any indirect, incidental or consequential damage, including lost profit, sustained or incurred in connection with any product or caused by product defect or the partial or total failure of any product regardless of the form of action, weather in contract, tort (including negligence), strict liability or otherwise, and weather or not such damage was foreseen or unforeseen.

- Warranty is void if the product is misused, damaged, modified in any way, or for unauthorized repairs or parts. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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