

# MEGA LITE<sup>®</sup>

HAZE2ENGINE™



## USER MANUAL

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**Check that the unit has not been damaged during transport.**



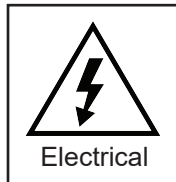
Read all cautions and warnings  
prior to operation of this  
equipment

### Protection Against Fire



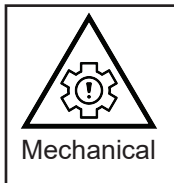
1. Maintain a minimum of 1 foot distance from any type of flame.
2. Fixture is designed for indoor use only.
3. Do not install the unit too close to a heat source.
4. Make sure cables are properly secured.
5. Maximum surface operating temperature: 130°.

### Protection Against Electrical Fire



1. Disconnect power before servicing.
2. For connection to main power supply, proceed to page 4.
3. The power supply must be earthed (electronically grounded).
4. This fixture must not be left on for long periods of time.
5. Unit operates only on 110V do not connect to 220V.

### Protection Against Mechanical Hazards



1. Use secondary safety chain when hanging unit.
2. Place on a secure floor setting.
3. Do not open unit while it is on. Risk of electrical shock.

### What is Included

1pc Haze 2 Engine fixture  
1pc Seetronics SAC3FX to Nema 5-15 Power Cable  
1pc 1pc User Manual

# Specifications

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## Part Numbers

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### Fixture Item ID

2002=Haze 2 Engine

CAS-2002-1-B

## Mechanical Specifications

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<b>Housing:</b>	Sheet Metal
<b>Direction:</b>	Forward and Upwards gates
<b>Mounting System:</b>	Rubber feet for Floor Mounting
<b>Power Connection:</b>	<b>Input:</b> Seetronics SAC3MPX Panel Mount <b>Cable:</b> Seetronics SAC3FX to Nema 5/15
<b>Signal Connection:</b>	3 and 5 Pin XLR In and Out
<b>Manual Engage:</b>	Yes
<b>Wireless Controller:</b>	Wireless hand held on/off controller
<b>Tank Size:</b>	42oz
<b>Weight:</b>	12lb
<b>Size:</b>	18.5" X 6.36" X 9.5"

## Electrical Specifications

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<b>Power Input:</b>	110V 60hz
<b>Fuse:</b>	F10 250V
<b>Heat Source Watts:</b>	900W
<b>Power Consumption:</b>	927Watts 8 Amps @110V
<b>Fan Speed:</b>	Controlled Via Display and DMX
<b>Haze Output:</b>	Controlled Via Display and DMX
<b>Haze Volume:</b>	9,000 CuFT/Min
<b>Heat Up Time:</b>	1 min 40 sec from cold start

## Control & Programming

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<b>Operating Mode:</b>	DMX, Manual Settings Via Display, Wireless Remote on/off controller, Manual Engage Button
<b>Protocol:</b>	DMX 512
<b>DMX Mode:</b>	2 Channel Mode    Volume, Fan Speed

## Main Power Connection

### Caution!

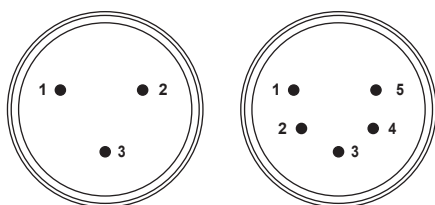
1. Do not connect fixture to a dimmer system.
2. This unit must be earthed. (Electronically grounded)
3. Replace fuse only with the specified type and rating. (F10AL250V)

Cable USA	Cable EU	110V	220V
Black	Brown	Live	N/A
White	Light Blue	Neutral	N/A
Green	Yellow / Green	Ground	N/A

## DMX-512 Connection

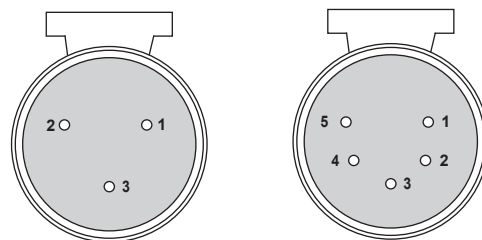
The fixture is equipped with 3 and 5 pin XLR Sockets for DMX input and output connection. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 or 5 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

### DMX - Input



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

### DMX - Output



### Caution!

On the last fixture the DMX signal needs to be terminated with a terminator. Pre-manufactured terminator are available for purchase from your Mega-Lite dealer item #P-DMX-T.

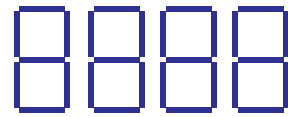
## Wireless Controller

To use the wireless feature the fixture must have the REMOTE function set to on in the display setting. (Go to page 5 for more information)

## Display Control

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



HEAT

**Heat:** Heater Warming Up

Addr

**ADDRESS:** Press **Enter** to view the fixture start channel. Make adjustment to the fixture start address from 001 to 512 using the **up/down** buttons. Press **Enter** to confirm. Fixtures start channel must coincide with DMX Controllers Channel Address.

HAZE

**HAZE:** Press **Enter** to adjust the amount of haze that is release when used with wireless controller. There is 10 option settings 10, 20, 30, 40, 50, 60, 70, 80, 90 and 100 being the most Haze output.

FAN

**FAN:** Press **Enter** to adjust the fan speed when used with wireless controller. There is 10 option settings 10, 20, 30, 40, 50, 60, 70, 80, 90 and 100 being the fastest fan speed.

REMOTE

**REMOTE:** Press **Enter** to engage or disengage the wireless remote function. Use the **up/down** button to select between on or off.

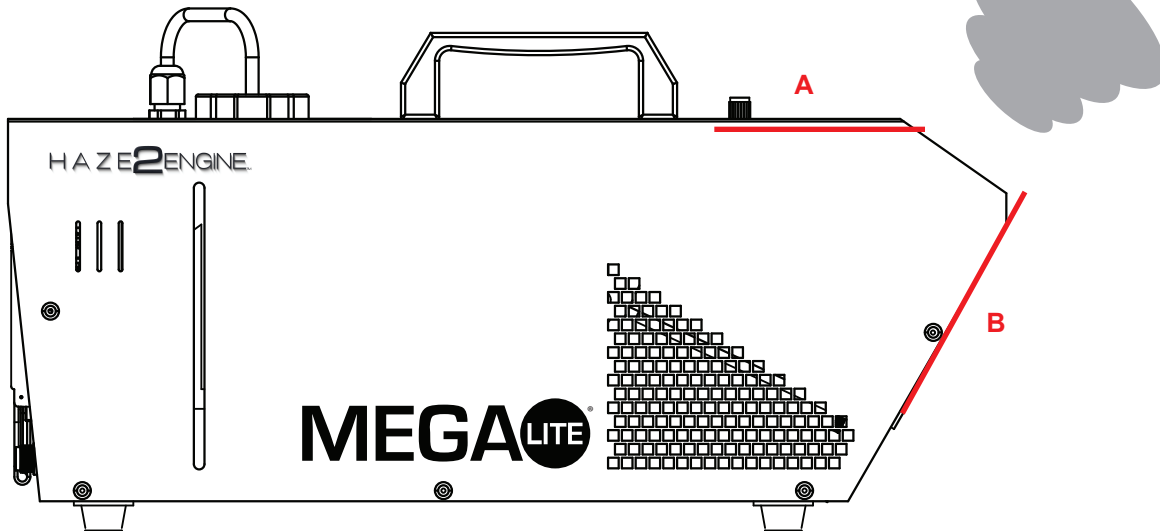
## DMX Profile

### Haze 2 Engine DMX Profile

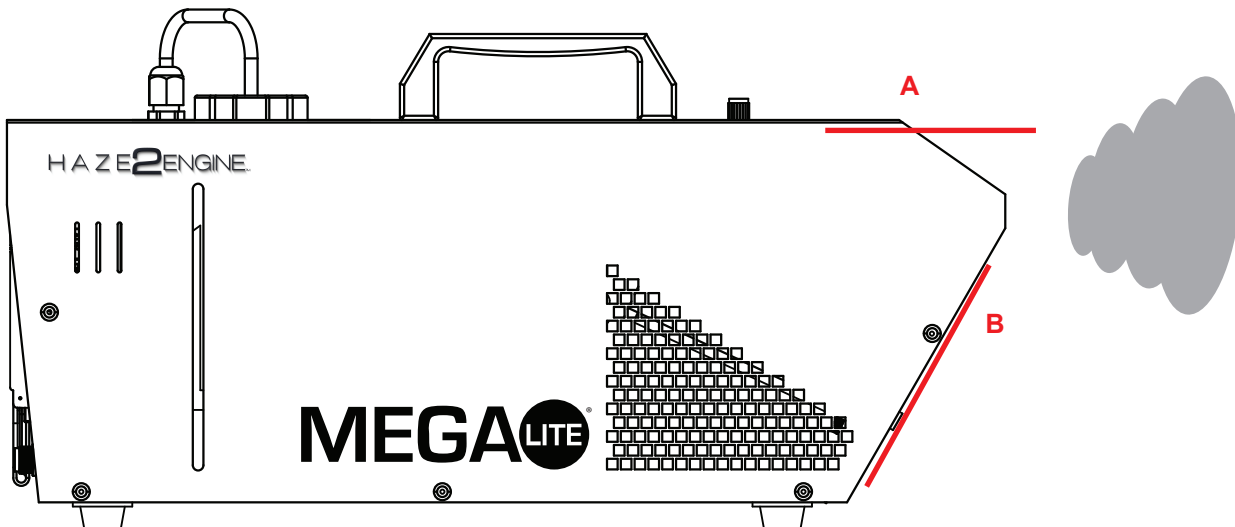
2 Ch Mode	Function	Description	Value	Init
1	Volume	No Function	0-5	255
		Volume from Low to Heavy	6-255	
2	Fan Speed	No Function	0-10	255
		Fan Speed	11-255	

## Gates

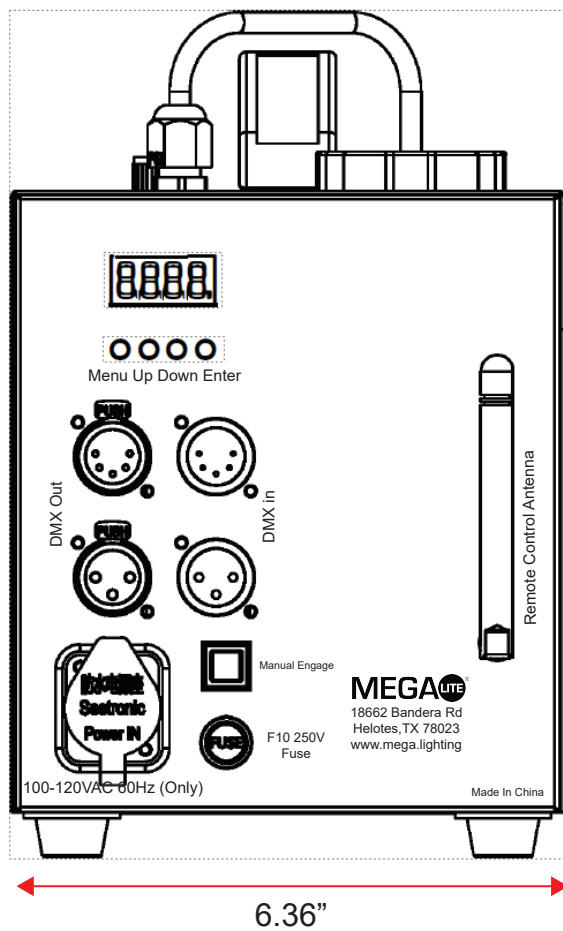
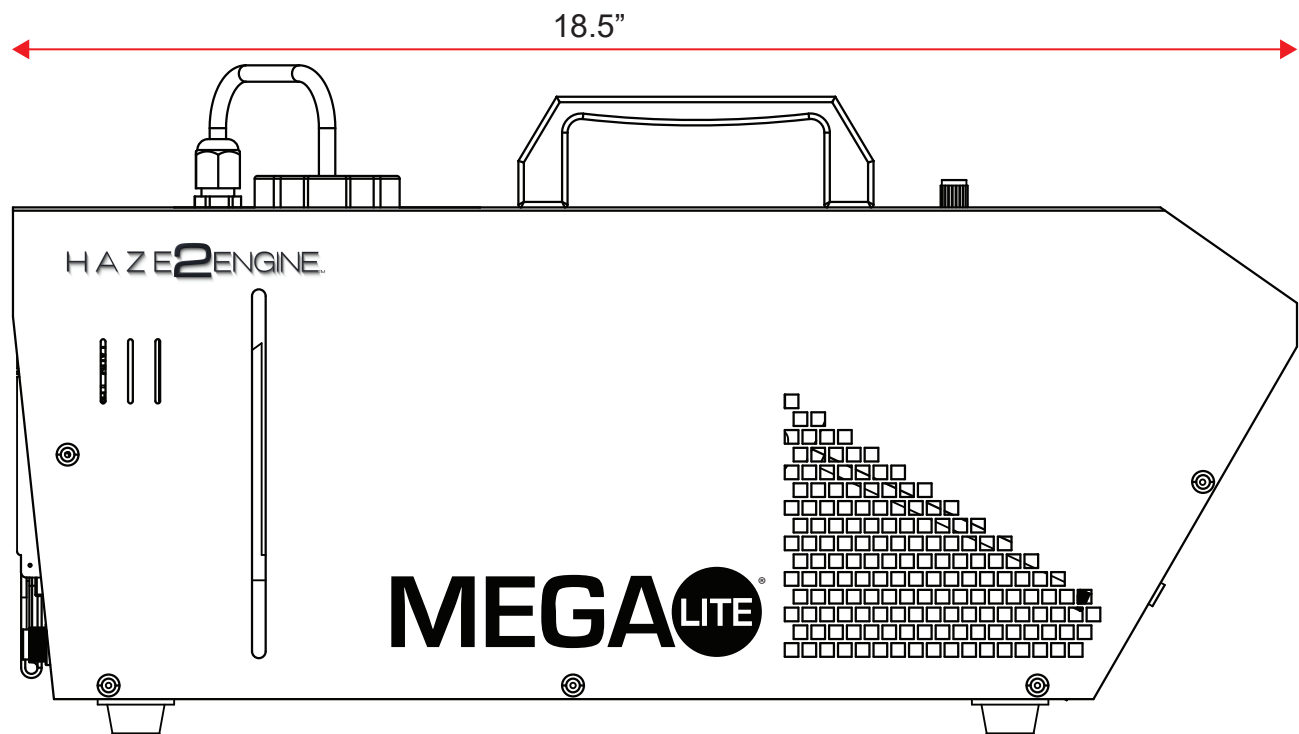
To Point Haze upwards open gate A and close gate B



To Point Haze forward open gate B and close gate A



Size and Weight



Fixture Size:	18.5" X 6.36" X 9.5"
Fixture Weight:	12lb
Packaged Size:	21.5" X 9" X 10.75"
Packaged Weight:	14lb

## Installation

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### Caution!

1. The Installation 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.
4. Use high quality installation equipment to hang the unit.
5. Internal Fan Filters must be cleaned periodically as not to block airflow.

When rigging the it is very important that you follow common safety procedures. Rigging requires extensive experience including but not limited to calculating working weight 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 secure 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 failures. Installation should be checked at least one time a year by a skilled professional.

## 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 must 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.
- 4) Fixture housing must only be cleaned from the outside using only soap and water.
- 5) Internal fan filters but be cleaned periodically

**Note:** Maintenance and service operations are to be carried out by authorized dealers.

**Replacing the fuse:** When possible, only replace the fuse with the same type and rating.

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

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

Fixture Storage- If hazer is to be stored for a long period of time it is recommended that the lines be cleared. To clean lines it is recommended that you run in place of haze fluid a 50% distilled water and 50% clear vinegar mixture 6 oz of each through the hazer. (It is important that you don't run hazer with out any liquid) Please do this outside as this will create an unpleasant smell.



## General Terms & Conditions

1. All resellers must have approved and signed Reseller Application on file, including their respective state tax information and W-9. Applications are re-evaluated on a fiscal calendar year basis to assure business integrity and tax status.
2. Cash, check, cashiers check, ACH, wire transfer, MasterCard, Visa, Discover, and American Express are accepted forms of payment.
3. Past due invoices will be charged 1.5% per month finance charge. Uncollected invoices are subject to be turned over to collection.
4. The reseller will pay all reasonable expenses incurred in the course of collections.
5. The proper venue for litigation will be Bexar County, Texas.
6. Returned checks will be charged a \$50.00 fee.
7. All prices are in U.S. Dollars.
8. All prices and specifications are subject to change without notice, sales order confirmations are emailed and will reflect correct pricing.
9. All terms are insured, monitored, analyzed and approved by Coface USA. Changes in credit line and approved terms can change without notice. Company authorization of credit is based on Coface approvals. Any conflicts or disagreements should be referred to: 650 College Rd East Suite 2005 Princeton, NJ 08540. 1-609-469-0400. E-mail: cofaceusa@coface.com
10. Returns are subject to 25% restocking charge plus any necessary charges for repair or re-packaging.

## Shipping Terms & Conditions

1. All orders are EXW San Antonio, TX (EXW means that a buyer/reseller incurs the risks for bringing the goods to their final destination) any deviation needs to be done in writing.
2. UPS ground shipping is the preferred shipping method. Requests for specific carriers may require use of the customer's account number and may incur an additional charge for handling.
3. Drop shipments are subject to all return charges at resellers expense. Drop shipments are not allowed outside of the territorial United States.
4. NO C.O.D. shipments allowed.
5. Returned and undelivered shipment charges are the buyer/resellers responsibility and will be billed to the buyer/reseller.
6. The freight carrier and Company shipping@mega.lighting should be notified upon receipt of damaged freight, discrepancies, or non-conformities within 24 hours. Company can assist in making claims with carriers or agents in the event of any loss or damage.
7. Upon acceptance in good order by Carrier from Company, the material becomes the property of the Reseller.

## Warranty and Service Procedures

1. All returns require an RMA# (Return Merchandise Authorization number) before returning goods for any reason. For a service or warranty RMA, please email service@mega.lighting or call (210)684-2600. For sales or demo returns, please contact sales@mega.lighting.
2. Case will be created and an RMA notice will be emailed. All units received must have the RMA # included with the unit as well as on the shipping label.
3. All shipping charges are the responsibility of the customer: MEGA Systems, Inc., Service, 18668 HWY 16 N., Helotes, TX 78023

## Warranty for Products Purchased Before 2021

Unless otherwise stated in writing, product is covered by a one year parts and labor limited warranty and is subject to same limitations listed under the limited warranty exclusions listed below.

## Warranty for Products Purchased After January 1, 2021

**MEGA SYSTEMS INC ("MSI")** hereby warrants to the original purchaser/owner (Customer"), MSI products to be free of manufacturing defects in material and workmanship, for the warranty periods as defined below from the original purchase invoice date. This warranty applies exclusively to new MSI branded and/or distributed products listed below, purchased from an MSI AUTHORIZED dealer/reseller. This warranty is not transferrable and may or may not apply to products sold and/or forwarded outside the United States. Please contact MSI for applicable regional product warranty information.

The purchase of MSI product constitutes the Customer's acceptance of all warranty terms and conditions as listed in this limited warranty statement. This warranty provides the Customer with legal rights, which may vary from state to state. Please contact MSI regarding warranty questions prior to purchasing.

Product / Series	Warranty Period	Coverage
Battery Powered LED	Six month battery, one year all other components	1, 2
Moving LED, Hazers	One Year	2
Outdoor IP-Rated LED	Two Years	3
House Light LED, Decorative LED, Compact LED, iCandy LED, Theatrical LED, Strobe Wash LED, Follow Spot LED, Production & House of Worship Control, Architectural Control, Theatrical Control, Dance Venue & Mobile DJ Control, Direct View LED Displays, and MV Controllers	Three Years	4
<b>1. Battery: 183 days/six months 2. Parts and Labor: 365 days/one year 3. Parts and Labor: 730 days/two years 4. Parts and Labor: 1095 days/three years</b>		
<b>This limited warranty excludes any defects caused by, resulting from, or relating to the following:</b>		
Normal wear and tear of lamps, color media, brushes, contact rings, lamp sockets, belts and other parts prone to wear and tear.		
Misuse, abuse, improper handling, accident, alteration or attempts to repair by or on behalf of the owner or any person not authorized by MSI.		
Damage to the product resulting from acts of God, including but not limited to, earthquakes, hurricanes, tornadoes, lightning and other natural disasters, fire, explosion, flood, riots, civil disorder or any other cause beyond the reasonable control of MSI.		
Exposure to harsh or excessively corrosive environmental conditions (whether indoors or outdoors) including, but not limited to, extreme temperature, humidity, atmospheric conditions (including salinity or pressure), radiation (UV, infrared or nuclear), shock and conditions which exceed the product's Ingress Protection ("IP") rating.		
Use of the product in a manner which exceeds the applicable product specification, including, but not limited to, exposure to excessive, insufficient, or other voltage conditions.		
Installation or use of the product not in accordance with the technical documentation, MSI guidelines (as may be posted on its website at <a href="http://www.megasystemsinc.com">www.megasystemsinc.com</a> from time to time or otherwise designated by MSI or its brands) or applicable building and electrical codes, regulations, and standards.		
Failure to maintain the product in accordance with the technical documentation.		
Natural degradation and color shift of the LED source over the course of normal product use.		
Slight deviations in the specified values of intensity and color that do not affect the functionality of the product.		
Use of the product not for its intended purpose.		

All warranty claims are evaluated under the terms of this limited warranty. If a product falls within the warranty period and if, upon examination by MSI, it is found to have failed for a covered cause, MSI will, at its sole discretion, repair or replace the defective part or product or reimburse the purchaser a pro-rated portion of the purchase price based on the percentage of the warranty period still remaining as of the date that the returned product was received by MSI. Should a replacement part or product be discontinued or unavailable, MSI reserves the right, in its sole and absolute discretion, to substitute a comparable replacement part or product for the defective part of product. MSI warranty obligation hereunder is limited solely to the repair or replacement of or reimbursement for the particular parts or products determined by MSI to have failed for a covered cause within the warranty period. In no event shall MSI be responsible to replace or reimburse purchaser for any products or portions of a system that MSI determines has not failed for a covered cause within the warranty period, even if such other products or portions of a system are used together with products being repaired or replaced by MSI under this warranty and the repaired product differs in brightness, colors or any other attribute after the repair.

Costs of removal, shipping to MSI or its authorized representative and reinstallation are solely the responsibility of the purchaser. If MSI determines that the product is covered by this limited warranty, it will only pay for parts and labor as indicated by product type. If MSI determines that the product is not covered by this limited warranty, the purchaser will have the option of paying for the repair if the product can be repaired and the purchaser shall be responsible for the cost of shipping the repaired product back to the purchaser. MSI reserves the right, in its sole and absolute discretion, to decline any repair.

IN NO EVENT SHALL MEGA SYSTEMS, INC. BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT OR PUNITIVE LOSS OR DAMAGE OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUES, LOSS OF USE OF THE PRODUCT OR ANY OTHER GOODS OR ASSOCIATED EQUIPMENT, DAMAGE TO ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF SUBSTITUTE PRODUCTS, FACILITIES OR SERVICES, DOWN TIME COST, INSTALLATION OR LABOR COSTS, OR CLAIMS OF THE PURCHASER'S CUSTOMERS, WHETHER BASED ON WARRANTY, CONTRACT OR NEGLIGENCE, ARISING IN CONNECTION WITH THE SALE, USE OR REPAIR OF THE PRODUCT. MEGA SYSTEMS INC'S MAXIMUM LIABILITY SHALL NOT, IN ANY CASE, EXCEED THE PURCHASE PRICE OF THE PRODUCT THAT GIVES RISE TO THE CLAIM.

EXCEPT FOR THE LIMITED WARRANTY SET FORTH HEREIN, ALL PRODUCTS SOLD BY MEGA SYSTEMS, INC. ARE SOLD "AS IS" WITHOUT ANY WARRANTY, EXPRESS, OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE EXPRESSLY AND SPECIFICALLY DISCLAIMED BY MEGA SYSTEMS, INC.

# Customer Support

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MEGA-Lite has a customer support line to provide set-up help and to answer any questions should you encounter a problem. Please visit our website for any other related technical documents. For service related issues, please contact our service dept.

Monday - Friday 9am to 6pm CST  
(210)684-2600  
Service@mega.lighting

# Manual Version

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Please visit [www.mega.lighting](http://www.mega.lighting) for the most up-to-date manual version.

Manual Version	Date	Fixture Software	Notes
1.0	1/09/2024	1.0.0	



MEGA LITE  
18662 Bandera Rd  
Helotes, TX 78023  
Phone (210)684-2600 / Fax (210)855-6279  
[www.mega.lighting](http://www.mega.lighting) / [info@mega.lighting](mailto:info@mega.lighting)