



MEGA LITE MEMO CORE Control Unit User Manual

[Home](#) » [MEGA LITE](#) » MEGA LITE MEMO CORE Control Unit User Manual 

Contents

- [1 MEGA LITE MEMO CORE Control Unit](#)
- [2 Instructions](#)
 - [2.1 Protection Against Fire](#)
 - [2.2 Protection Against Electrical Dangers](#)
 - [2.3 Protection Against Mechanical Hazards](#)
- [3 Specifications](#)
 - [3.1 Mechanical Specifications](#)
 - [3.2 Electrical Specifications](#)
 - [3.3 Control & Programming](#)
- [4 Main Power Connection](#)
 - [4.1 DMX-512 Connection](#)
 - [4.2 Rear Panel](#)
- [5 Memo Remote Connection](#)
- [6 Memo Remote Installation:](#)
- [7 Display Board](#)
- [8 Universe Activation](#)
- [9 Size & Weight](#)
- [10 Cleaning and Maintenance](#)
- [11 Customer Support](#)
- [12 Documents / Resources](#)
- [13 Related Posts](#)

MEGA LITE®

MEGA LITE MEMO CORE Control Unit



Instructions

Protection Against Fire

1. Maintain a minimum of 1-foot distance from any type of flame.
2. Do not install the unit too close to a heat source.
3. Make sure cables are properly secured away from the movement.
4. The maximum surface operating temperature is 148°F.
5. The unit must not be left on for long periods of time.

Protection Against Electrical Dangers

1. Disconnect power before servicing.
2. For connection to the main power supply, proceed to page 4.
3. This unit must be earthed (electronically grounded).
4. Do not expose the unit to rain or moisture.
5. The unit must be installed in a well-ventilated area.
6. Be sure ventilation slots are not blocked

Protection Against Mechanical Hazards

1. The unit surface may reach high temperatures. Allow about 5 minutes after powering the unit before moving.
2. When repositioning rack ears, make sure they are securely attached.

What is Included

- 1pc Memo Core Control
- 1pc Power-Con Type Cable to Nema 5-15
- 2pc Rear & Wall Support Rack Ears
- 1pc Bluetooth Keyboard and Mouse
- 1pc User Manual

Specifications

Mechanical Specifications

- **Fastening System:** Removable Rack Ears for Wall Mounting, Rack Mounting, and Rear Rack Mounting

- **Display:** Digital 6 Button Function Display
- **Power Connection:** Power-Con (type) Cable Mounted to Nema 5-15 Connection
- **Housing:** Black Powder Coated
- **Input Connections:** 1 Rear USB 3, 1 Front USB 3, 1 Screw Terminal Connection RS232&RS485
- **Output Connections:** 8 DMX Over RJ45, 1 HDMI Monitor Connection, 1 HDMI Output with Audio Imbedded
- **Bi Direction Connection:** 1 Ethernet RJ45, 1 Screw Terminal Connection RS232&RS485
- **Reset Button:** CPU Reset Button

Electrical Specifications

- **Power Input:** 100-240V AC 50/60 Hz
- **Universes:** 8 Built-in Universes
- **Display:** Playback Control Display
- **Power Consumption:** 40W
- **Power Supply:** Electronic: Mean Well
- **Working Ambient Temp:** 24°F -148°F
- **Cooling:** Temperature Controlled Fan
- **Fuse:** F2 240V

Control & Programming

- **Operating Software:** Enlighten (Memo Core Engine)
- **Timmer Setting:** Dusk to Dawn Time Scheduler Date and Holiday Scheduler
- **Lock Function:** Software Lock Feature

Main Power Connection

Caution!

1. Do not connect the fixture to a dimmer system.
2. This unit has an Auto-switching power supply. It will respond to 110V or 220V automatically.
3. This unit must be earthed (electronically grounded).
4. Replace fuse only with the specified type and rating (F2 240V Size 5x20MM).

The occupation of the connection cable is as follows:

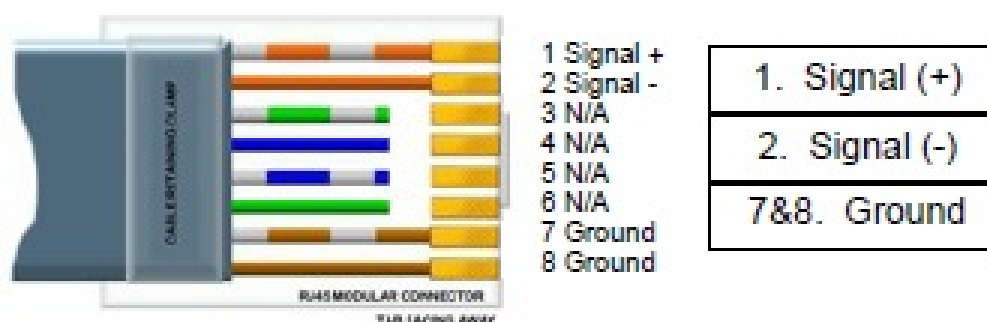
This fixture is equipped with an electronic power supply that will let the unit operate from 100V to 240V from 50 to 60Hz.

Black	Brown	Live	L	L
White	Light Blue	Neutral	N	L
Green	Yellow/Green	Ground		

DMX-512 Connection

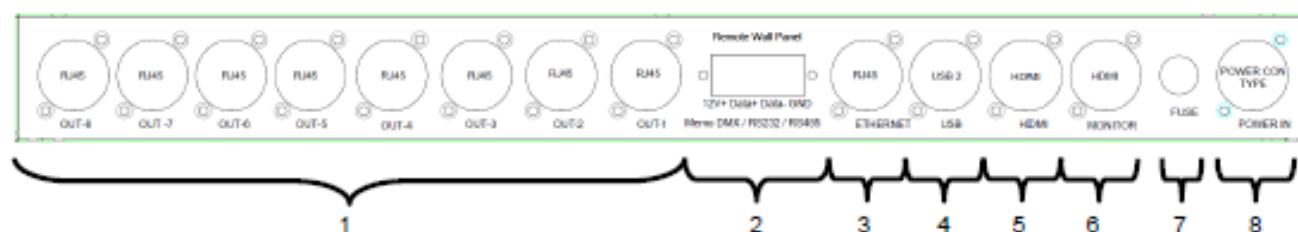
The controller is equipped with 8 universes with an RJ45 connections for DMX output. Only use a shielded twisted pair cable designed for RS-485 and RJ45 plugs and connectors in order to connect the controller with the fixture.

RJ45 8 Pin— DMX Output



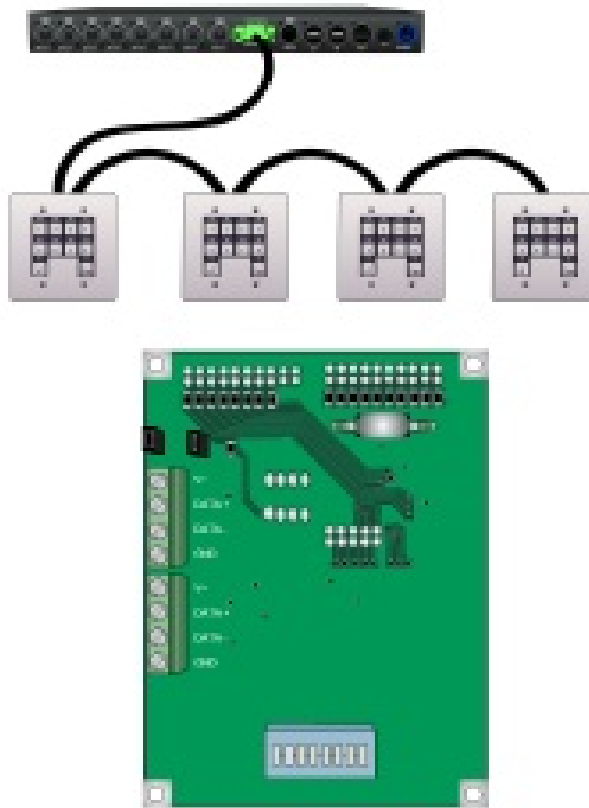
Rear Panel

Memo Core's output connection can be used to control DMX fixtures, video, and audio scenes on the Enlighten Software



1. **DMX Output:** 8 RJ45 output connections each representing a universe of 512 DMX Channels.
2. **RS485/RS232:** 4 points Screw Terminal Port, used for connecting Memo Remote wall connection or any other type of command device that will send or receive RS232 or RS485 Commands. Pin 1 and 4 are used to send 12V Voltage. Unit ships prewired for Memo Remote Connection. If RS232 or RS485 is needed please specify at ordering.
3. **Ethernet:** RJ45 Connection used for internet connection that will allow for Remote Desk Top or Web Remote control.
4. **USB:** USB 3 connection typically used for keyboard and mouse connection.
5. **HDMI Output:** Single Layer HD Video 1920×1080 @ 59fps max. Optimal File Bitrate 21000Kbs. Audio imbedded HDMI connection type (no file transitions)
6. **Monitor:** HDMI output for software monitor view.
7. **Fuse:** F2 240V 5x20mm Fuse
8. **Power In:** Power-Con type connection input voltage 100-240V AC50/60Hz (Proceed to page 4 for power connection).

Memo Remote Connection



Memo Remote Installation:

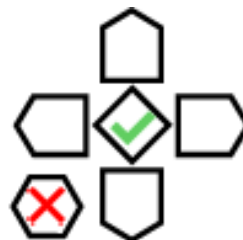
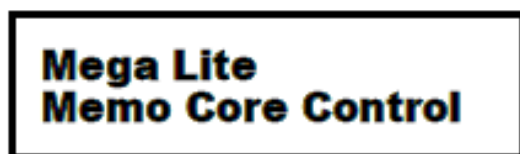
Memo Remotes are designed to trigger the preprograms created in the Enlighten Memo Core Software. For instructions on how to create programs, please visit the Enlightens YouTube playlist.

1. Memo Remote Units can be wired in series, meaning they can be connected from one fixture to another fixture.
2. Memo Remote Units can be addressed to work the same as another or as independent control interfaces. The fixture is equipped to be addressed to the same or different zone. Up to 8 different zones can be assigned.

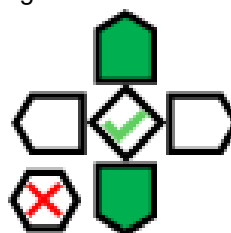
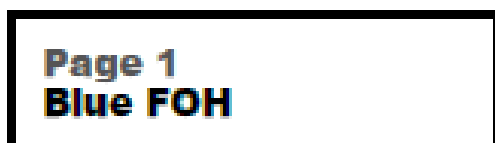
3. For more information on the Memo Remote, please refer to the fixture User Manual for Memo Remote.

Display Board

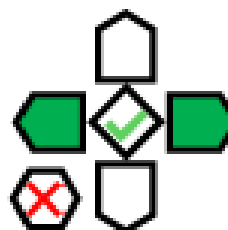
Display Screen gives you direct access to recorded scenes



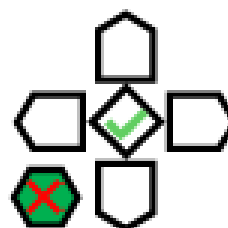
Page Select: Use the Up / Down arrows to select the correct button page



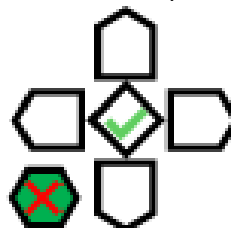
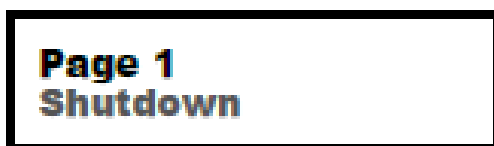
Button Select: Use the Left / Right arrows to select the correct button



Clear All: Use the Red X button for the Clear All function. To reengage a button look use the Left / Right button to select a scene



Shutdown: Use the Red X button by quickly pressing the button 10X for shutdown procedure.



Universe Activation

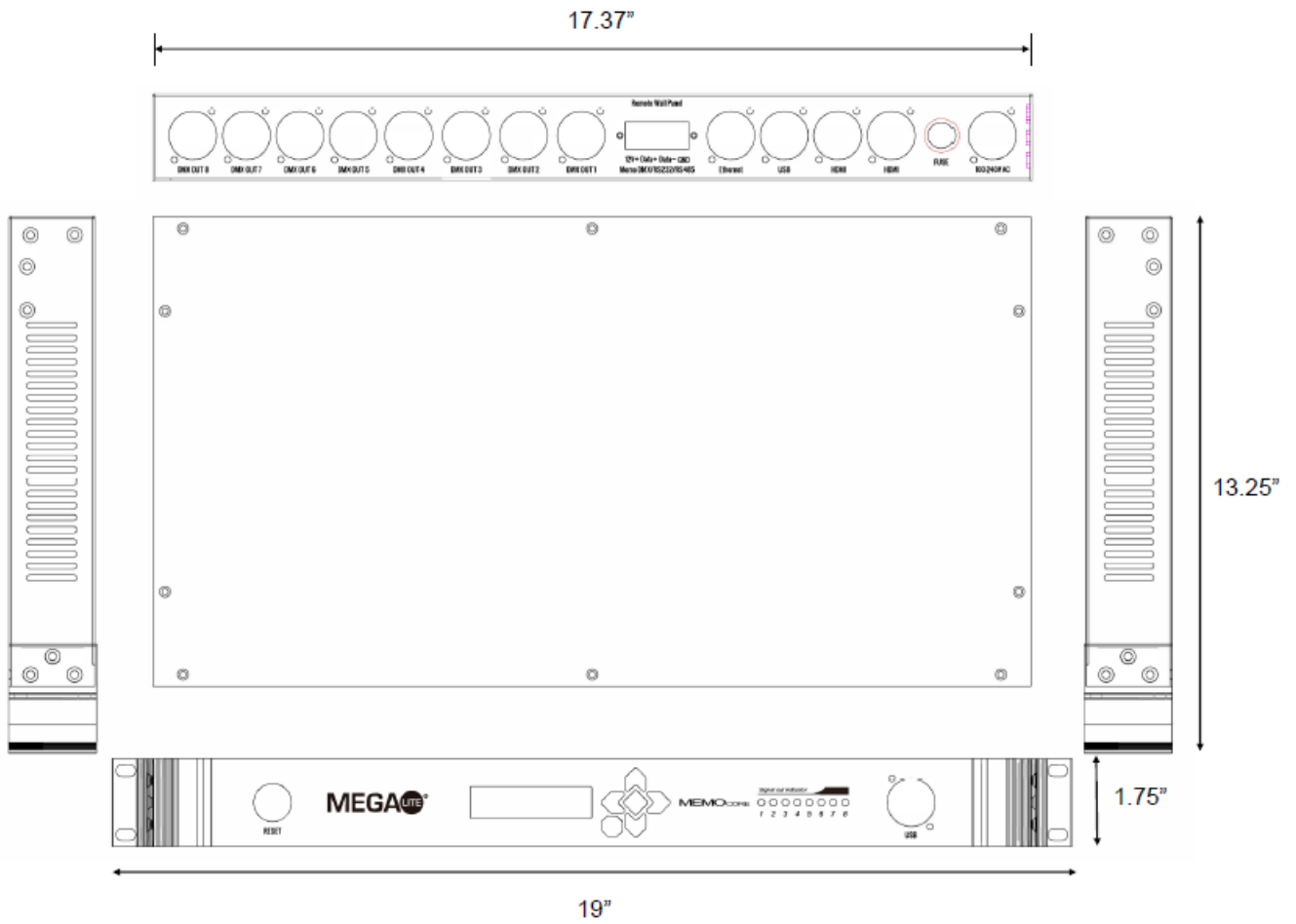


To Activate New Universes

1. Select Fixture to Patch: Proceed to the Patch Icon on the upper left side. Click on the Load / Patch New Fixture icon
2. Make Fixture Selection: Make the selection of fixture manufacture and fixture model using the drop-down fixture select. Press the green Patch Selected Fixtures once you have selected the fixture.
3. Select Universe: The Memo Core can have up to 8 Universes. Press the Add Universe button on the upper left side. The amount of time the required number of the universe needed. On the right of the button, press the Universe 1 but-ton to select the universe drop-down output you would like to connect your fixture into. Select how many of the same fixtures you would like to patch and press on the Patch Fixtures but-ton to finish patching your fixtures. Once the fixture is patched, the front LED display will display an active universe.



Size & Weight



Fixture Size	19" X 13.25" X 1.75"
Fixture Packaged	21" X 12" X 3.75"
Net Weight	8.8lb
Gross Weight	10lb

Cleaning and Maintenance

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 2 years

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 (rack, 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. Ventilation ports must be clear of any debris.
5. Inner ventilation power supply fan must be clear of any debris.

Rigging the Fixture

1. The installation must not be exposed to rain or moisture.
2. The 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. .Installation location must have adequate airflow.

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 transferable 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 products 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:** Battery Powered LED Moving LED, Hazers Outdoor IP-Rated LED 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
- **Warranty Period:** Six-month battery, one year all other components One year Two years Three years
- **Coverage :** 1, 2 2, 3, 4

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

This limited warranty excludes any defects caused by, resulting from, or relating to the following: 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, tornados, 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 temperatures, 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 www.megasystemsinc.com 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 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 fails 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 or 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 the purchaser for any product 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.

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Customer Support

Mega Lite has a customer support line to provide set-up help and to answer any question 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 9 am to 6 pm CST
Voice: 210-684-2600
E-mail: service@mega.lighting

Manual Version

Please Visit www.mega.lighting for the most up to date manual version

Document Version	Date	Fixture Software	Notes
1.0	08/27/2021	V1.0	

Documents / Resources

	MEGA LITE MEMO CORE Control Unit [pdf] User Manual MEMO CORE, Control Unit
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