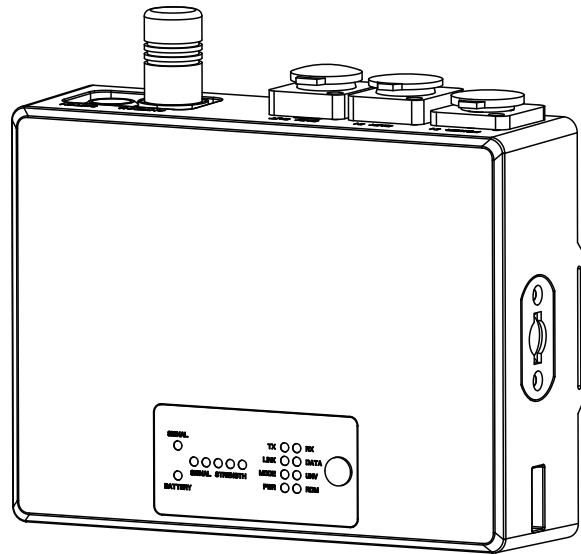


TOTALCONTROL RADIO DMX



USER MANUAL

Table of Contents

Safety Information	2
What's Included	2
Specifications	3
Main Power Connection	4
DMX Connection	4
Fixture Interface	5
Fixture Overview	6
Set Up	6
Operation Options	7
Connecting	8
Size and Weight	10
Installation	11
Cleaning	11
Warranty	12
Customer Service	13

Check that the unit has not been damaged during transport.



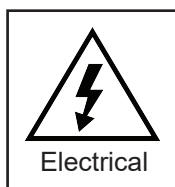
Read all cautions and warnings
prior to operation of this
equipment

Protection Against Fire



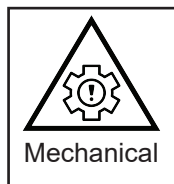
1. Maintain a minimum of 1 foot distance from any type of flame.
2. Do not install the unit too close to a heat source.
3. Make sure cables are properly secured.
4. Maximum surface operating temperature: 130°.

Protection Against Electrical Fire



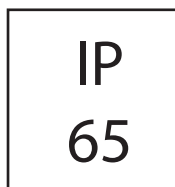
1. Disconnect power before servicing.
2. For connection to main power supply, proceed to page 4.
3. The power supply must be earthed (electronically grounded).
4. This fixture must not be left on for long periods of time.

Protection Against Mechanical Hazards



1. Use secondary 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.

Ingress Protection



The IP rating is commonly expressed as IP (Ingress Protection) is followed by 2 numbers (i.e. 65) where the numbers define the fixture rating. The first number indicates the size of a particle that can enter the fixture.. The second number indicates the extent of protection against water entering the fixture. An IP65 rating in this fixture indicates that dust particles can not enter the fixture. And there is protection against water spray from entering the fixture from any direction.

What is Included

1pc Total Control Radio DMX Transceiver
1pc Power Cable
1pc Quick Disconnect Clamp Mount
1pc Wall Mount
1pc Velcro Strap
1pc User Manual

Specifications

Part Numbers

Fixture ID

MC3050 = Total Control Radio DMX

Electrical Specifications

Radio Frequency Used:	5.2 & 5.8 GHz wW-DMX G3 & G4 compatible 2.4 GHz Normal mode 100mW, 2.4 GHz Maximum Power 450mW 126 Channels using frequency hopping technology - AFHSS
Frequency Agile:	Adaptive
Universes:	Up to 32 selectable
Broadcast Power:	5dBi Max
Communication Distance:	Up to 700 Meters (Outdoor prime operating environment)
DMX Latency:	<5ms
Battery Run Time:	Up to 88 Hours in Transmitting Mode, Up to 440 Hours in Receiving Mode
Battery Charge Time:	2.5 Hours
Power Consumption:	.35A @ 110v AC or .2A @ 240v AC
Power Supply:	100-250V AC 50-60Hz
Signal Protocol:	DMX 512, RDM
Display:	Power Indicator & Connection Status
Compliant:	This device complies with part 15 of the FCC rules
IP Rating:	IP65

Mechanical Specifications

Housing:	Diecast Aluminum
Mounting System:	Quick Release Clamp Mount with two 13mm holes, M10 Hole, Wall mount, Velcro Strap
Power Connection:	Seetronics SAC3MPX-67 (Seetronics black power connection SAC3MX-67 to Nema 5-15 cable included)
Signal Connection:	XLR 5 pin Input and Output .
Weight:	2.64lb
Size:	7.3" X 6.7" X 2.3"

Main Power Connection

Caution!

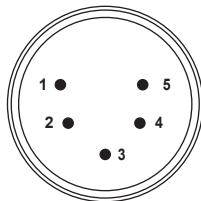
1. Do not connect fixture to a dimmer system.
2. This unit must be earthed. (Electronically grounded)
3. Replace fuse only with the specified type and rating.
4. This device is equipped with auto switching power supply that will allow the fixture to work from 100-250V AC 50/60Hz

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

DMX-512 Connection

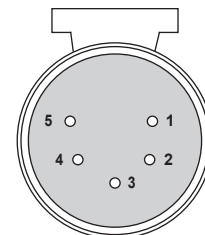
The fixture is equipped with 5 pin XLR Sockets for DMX input or output connection. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 5 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

Transmitter DMX - Input



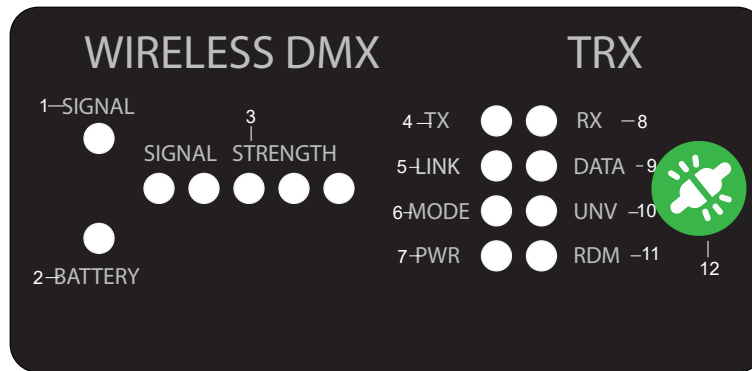
1.Shield (Grd)
2. Signal (-)
3. Signal (+)
N/A
N/A

Receiver DMX - Output



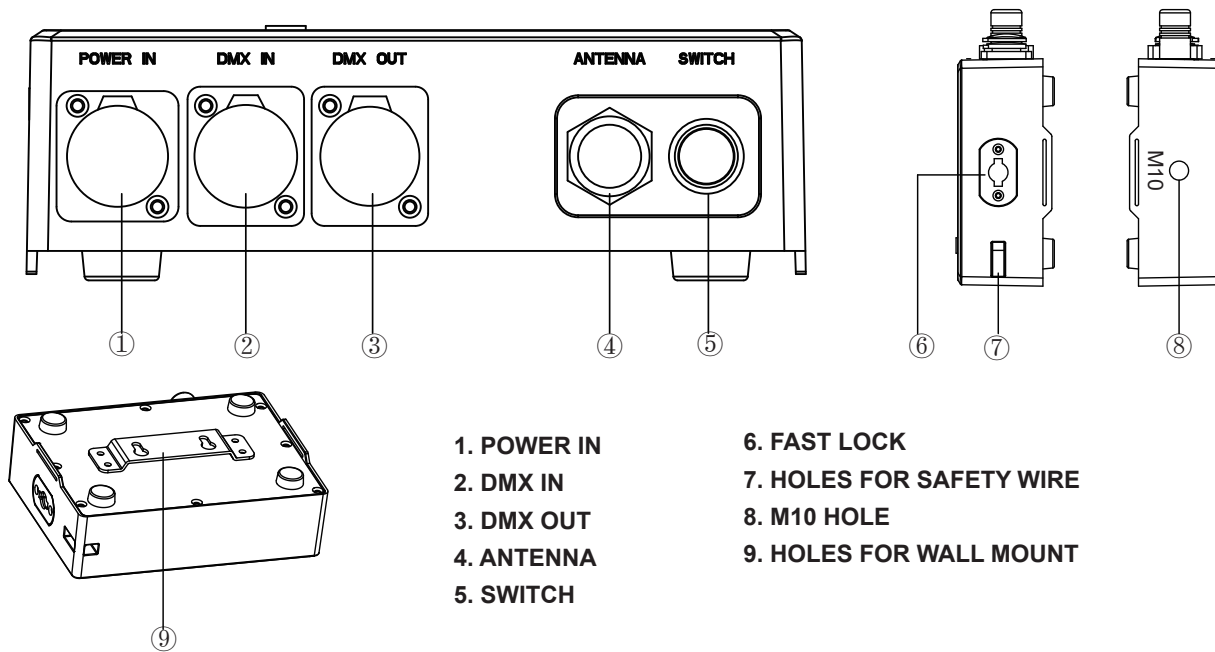
Caution!

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.



1. SIGNAL	Indicates the current strength of the signal being received.
2. BATTERY	<ul style="list-style-type: none">• Green: Battery is fully charged.• Red: Battery is currently being charged.
3. SIGNAL STRENGTH	<p>For a receiver: Shows the quality of the received signal.</p> <p>For a transmitter: Indicates the configured output power.</p>
4. TX	Indicates that the device is currently functioning as a transmitter.
5. LINK	<p>For a transmitter: Indicates that it is ready to establish a connection.</p> <p>For a receiver:</p> <ul style="list-style-type: none">• Off: Indicates that the receiver is not linked to any transmitter.• On: Shows an active link from a transmitter.• Blinking: Indicates that the receiver is linked to a transmitter but the link is lost (either the transmitter is out of range or turned off).
6. MODE	Indicates the current radio mode in use.
7. PWR	States the power condition of the device.
8. RX	Indicates that the device is currently operating as a receiver.
9. DATA	<ul style="list-style-type: none">• Off: Indicates no data transmission.• Green: Indicates the presence of DMX data.• Red: Indicates RDM activity.
10. UNV	Not applicable for this device.
11. RDM	Flashes to indicate RDM traffic activity.
12. Function button	Green button used for navigating between different modes of operation.

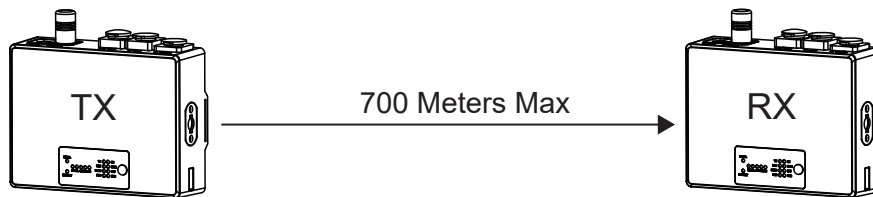
Fixture Overview



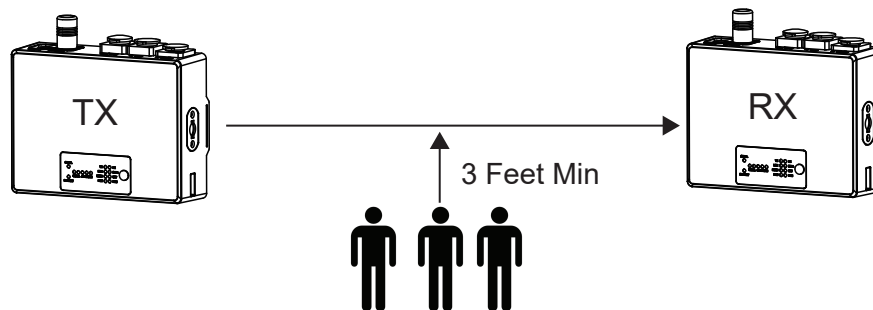
Set Up

For optimum signal transmission the following conditions should be fulfilled:

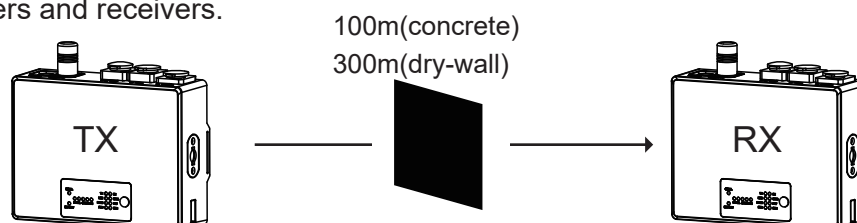
Distance between Transmitter and Receiver should not exceed 700 Meters.



Position on the transmitter should be clear sight of the receiver with a minimum of 3 feet above any person.

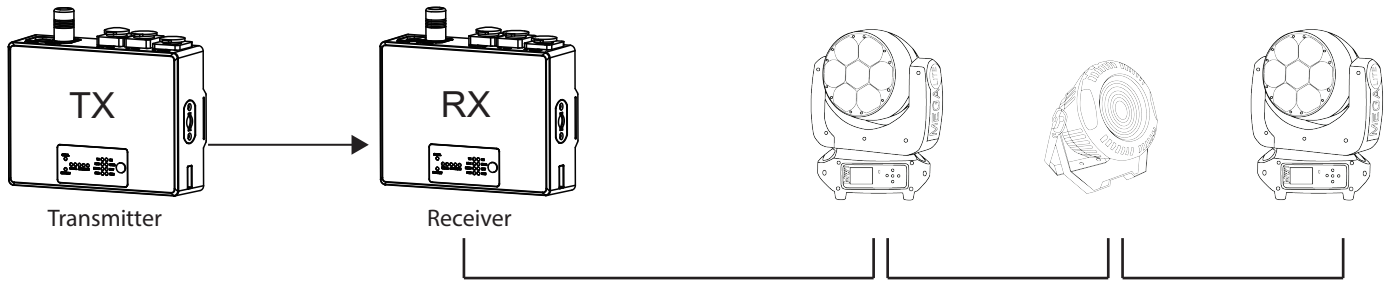


Physical barriers like glass, concrete and walls will limit the transmission range. Always try to have line of sight between transmitters and receivers.

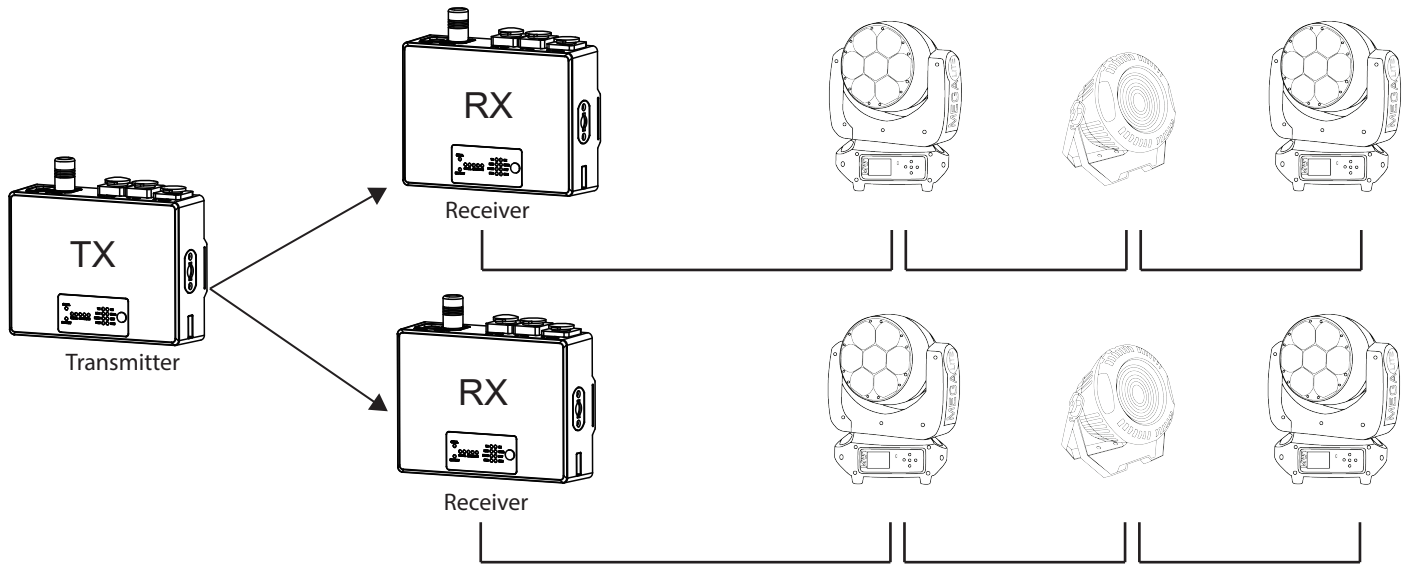


Operation Options

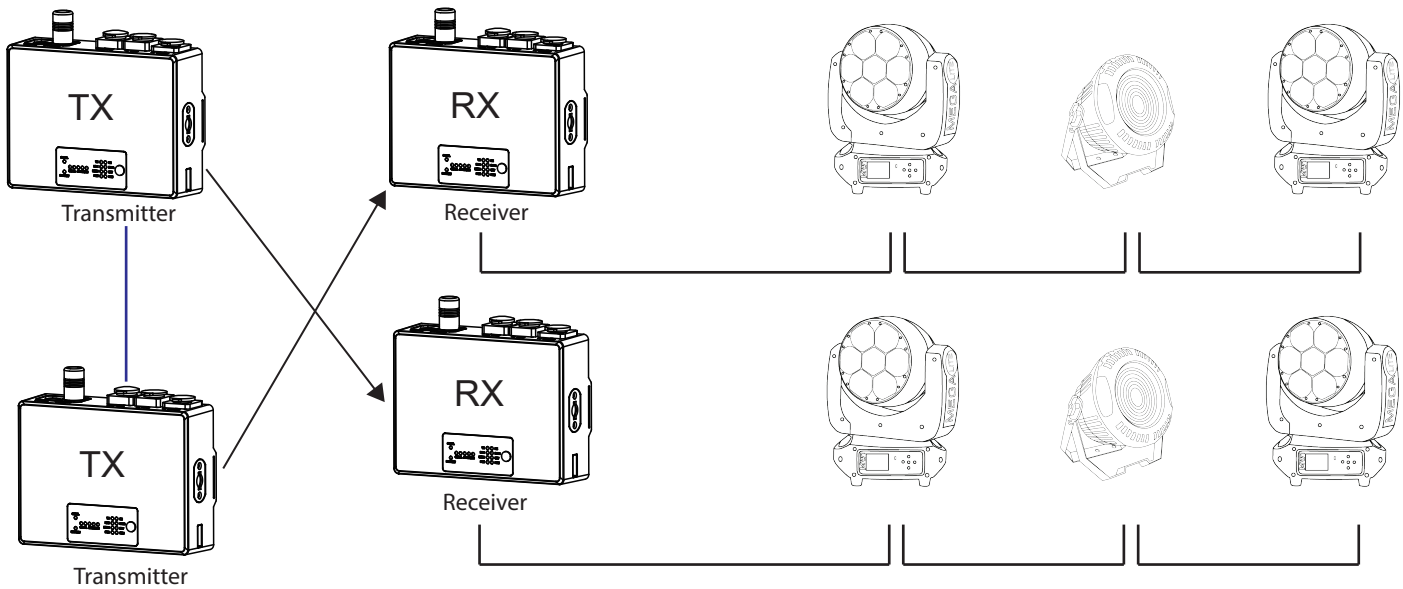
Point to Point



Point to Multi-Point



Multi-Point to Multi-Point



Connection

The MEGA-Lite Total Radio DMX is also a transceiver. This means that it can receive or transmit a wireless DMX Signal. See below for instructions on how to set your receiver in your desired mode.

Switching Transceiver Modes

- 1.1 To switch modes: Quickly press the green function button 5 times.
- 1.2 Press and hold the green function button for a minimum of 3 seconds. (The LINK and DATA LEDs will flash alternately.)
- 1.3 Press the green function button to cycle through the available modes. (The RX or TX LED will flash to indicate the active selection.)
- 1.4 Once the desired mode is selected, press and hold the red function button to confirm.

Connecting MEGA-Lite Fixtures with LumenRadio Wireless

This procedure currently applies to Tiltbot, Paramount, and TETRA 4 fixtures.

- 1.1 Power on the fixture and enable wireless mode. Place the fixture into the blocking/sync mode.
- 1.2 Make sure your LumenRadio transmitter is powered on and ready to broadcast.
- 1.3 On the transmitter, press the green button to begin syncing.
- 1.4 The fixture's wireless indicator will change (see your fixture manual for LED status details). The transmitter should also show a solid connection.
- 1.3 Send a DMX signal from your console through the transmitter. Confirm that the fixture responds as expected.

Trouble Shooting Tips

If your fixture is not connecting to the LumenRadio transmitter, try the following:

No Connection:

Verify the fixture is in wireless/sync mode (check the fixture's manual for LED status).

Make sure the transmitter is powered on and broadcasting.

Re-press the green sync button on the transmitter.

Weak or Unstable Signal:

Reduce the distance between the transmitter and the fixture.

Remove obstructions such as walls, metal objects, or other wireless devices that may cause interference.

Re-sync the fixture to refresh the connection.

Fixture Responds Incorrectly:

Confirm the correct DMX address is set on the fixture.

Check that the console is outputting to the correct universe.

Power cycle both the transmitter and the fixture, then re-sync.

Multiple Fixtures Not Connecting:

Sync one fixture at a time.

Ensure all fixtures are set to wireless mode.

If issues continue, reset the transmitter and repeat the process.

Connection

Point to Point Connection

- 1.1 Connect the Transmitter to power; the DMX indicator should flash green.
- 1.2 Connect the DMX Signal to the Transmitter; the DMX indicator should stay solid green.
- 1.3 Connect the Receiver to power; the DMX indicator should be off. If the DMX light on the receiver is not off, you need to unlink your receiver.
- 1.4 Press and quickly release the function button on the Transmitter. The transmitter will scan for all unlinked receivers for 10 seconds - the DMX indicator on both the Transmitter and Receiver will flash rapidly.
- 1.5 If the connection is successful, the DMX indicator on both the Transmitter and Receiver will turn green. If the connection indicator is not green, ensure that the receiver is within range and repeat the procedure.

Point to Multi-Point Connection

- 1.1 Power up the Transmitter; the DMX indicator should flash green.
- 1.2 Connect the DMX Signal to the Transmitter; the DMX indicator should remain solid green.
- 1.3 Power up the Receivers; the DMX indicator should be off. If the DMX light on the receiver is not off, you must unlink your receiver.
- 1.4 Press and quickly release the function button on the Transmitter. The transmitter will scan for all unlinked receivers for 10 seconds - the DMX indicator on both the Transmitter and Receivers will flash rapidly.
- 1.5 Upon successful connection, the DMX indicator on both the Transmitter and Receivers will turn green. If the connection indicator is not green, verify that the receivers are within range and repeat the procedure.

Multi Point to Multi-Point Connection

- 1.1 Power up the First Transmitter; the DMX indicator should flash green.
- 1.2 Connect the DMX Signal to the First Transmitter; the DMX indicator should stay solid green.
- 1.3 Power up the Receiver(s); the DMX indicator should be off. If the DMX light on the receiver is not off, you must unlink your receiver.
- 1.4 Press and quickly release the function button on the First Transmitter. The transmitter will scan for all unlinked receivers for 10 seconds - the DMX indicator on both the Transmitter and Receivers will flash rapidly.
- 1.5 Upon successful connection, the DMX indicator on both the First Transmitter and Receiver will turn green. If the connection indicator is not green, verify that the receivers are within range and repeat the procedure.
- 1.6 Power up the Second Transmitter; the DMX indicator should flash green.
- 1.7 Connect the DMX Signal to the Second Transmitter; the DMX indicator should be solid green.
- 1.8 Power up the Receiver(s); the DMX indicator should be off. If the DMX light on the receiver is not off, you must unlink your receiver.
- 1.9 Press and quickly release the function button on the Second Transmitter. The transmitter will scan for all unlinked receivers for 10 seconds - the DMX indicator on both the Transmitter and Receivers will flash rapidly.
- 2.0 Upon successful connection, the DMX indicator on both the Second Transmitter and Receiver will turn green. If the connection indicator is not green, verify that the receivers are within range and repeat the procedure.
- 2.1 You can repeat the process for up to a total of 16 Transmitters.

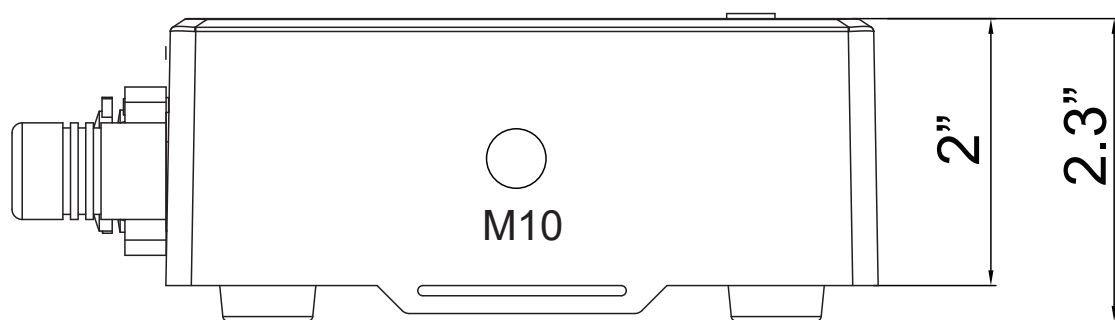
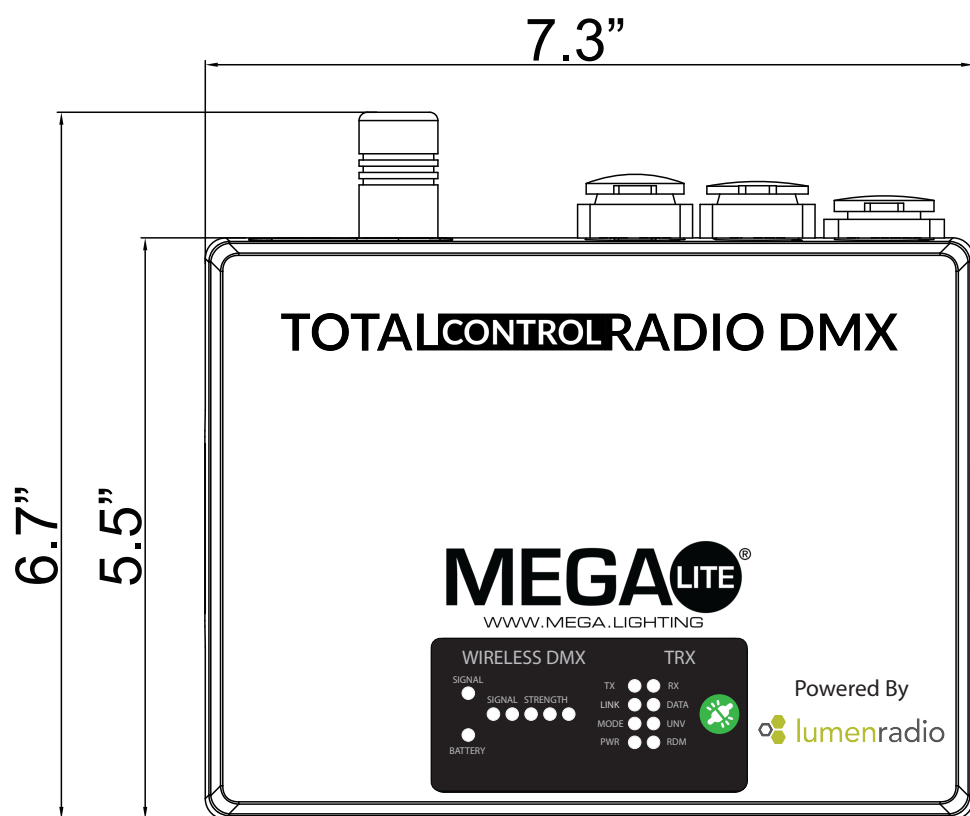
To unlink a Receiver

- 1.1 Press and hold the Function button on the Receiver for about 5 seconds until the DMX indicator flashes once and then goes off. Now the receiver is Unlinked

To unlink a Transmitter

- 1.1 Press and hold the Function button on the Transmitter for about 5 seconds until the DMX indicator flashes once and then goes off. Now the Transmitter is Unlinked

Size and Weight



Fixture Size:	7.3" X 6.7" X 2.3"
Fixture Weight:	2.64lb
Packaged Size:	11" X 11" X 4"
Packaged Weight:	5.5lb

Installation

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.

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

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.

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 or Mega Lite customer service.

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

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, 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 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 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 herunder 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

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

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

Manual Version	Date	Fixture Software	Notes
1.0	8/20/2025	N/A	



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