



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



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 120°.

Protection Against Fire



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. 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.

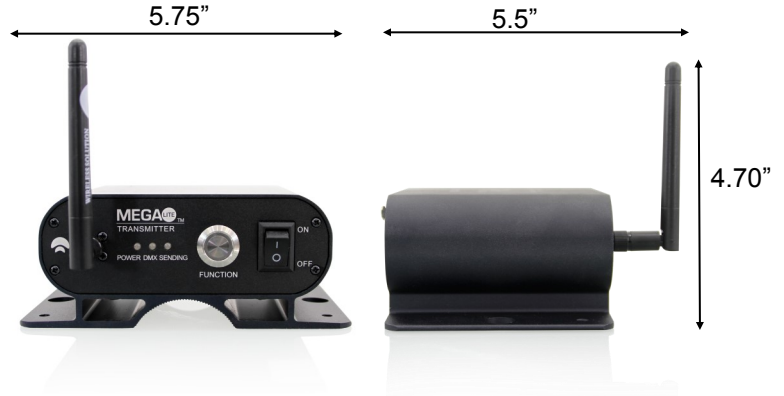
Technical Information

Part Numbers

MC2040– Mega Air PRO DMX Transmitter
MC2041– Mega Air PRO DMX Receiver

Electronic Specifications

- Radio Frequency Used:** 2.40-252G Automatic Select
126 Channels using frequency Hopping technology—AFHSS
- Frequency Agile:** Adaptive
- Universes:** Up to 16 selectable
- Broadcast Power:** 20dBm max
- Communication distance:** Up to 200Meters (Outdoor prime operating environment)
- Power Supply:** 110v
- Protocol:** DMX 512
- Display:** Power indicator & Connection status
- Compliant:** This device complies with part 15 of the FCC rules



Mechanical Specifications

- Fastening System:** Truss Mount Clamp & Mounting Holes
- Power Connection:** Power Conn Type
- Signal Connection:** XLR 3 & 5 pin **In** for Mega Air Pro Transmitter, XLR 3 & 5 **Out** for Mega Air Pro Receiver

Fixture	Packaging
Size: 5.75" x 5.5" x 4.70" Weight: 2lb	Size: 8" x 6.5" x 4" Weight: 3lb

Main Power Connection

Caution!

1. Do not connect fixture to a dimmer system.
2. This fixture only operates on 110V

This fixture is equipped with a power supply that will let the unit operate from 100V to 110V

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



DMX-512 Connection

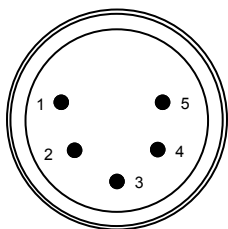
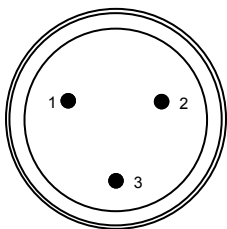
The fixture is equipped with 3 and 5 pin XLR Sockets for DMX input or output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 or 5 pin XLR plugs.

Caution!

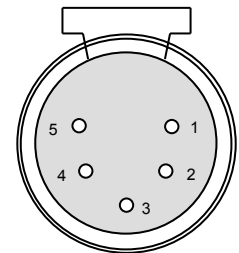
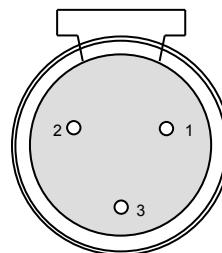
1. Do not connect 2 input cable or 2 output cables at the same time from the input or output.

Transmitter DMX—input

Receiver DMX—output



1. Shield
2. Signal (-)
3. Signal (+)

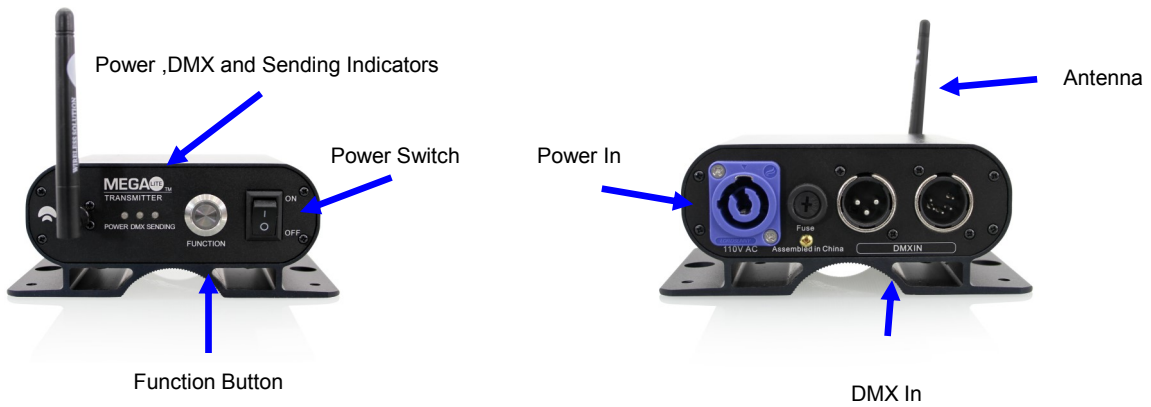


Caution!

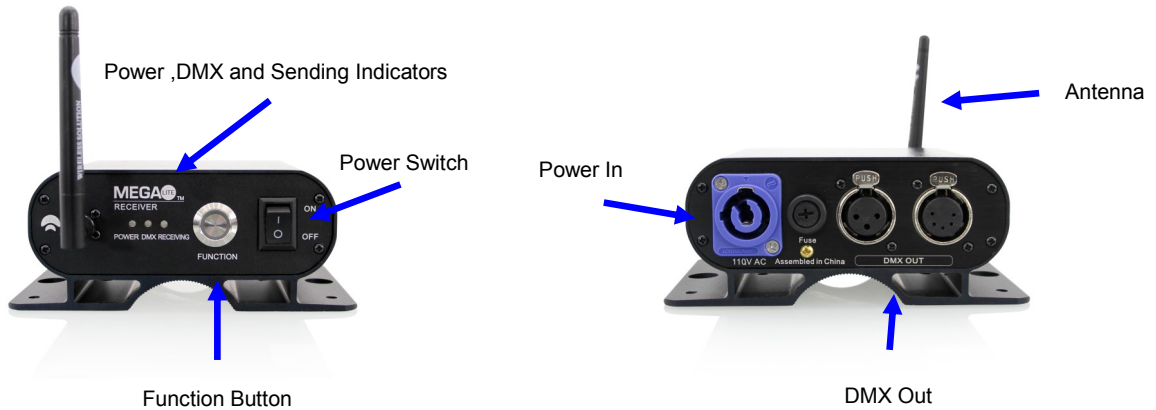
At the last fixture the DMX signal needs to be terminated with a terminator. Solder a 120 Ohm resistor between the (-) and the (+) signal into a 3 or 5 pin XLR plug and plug it in to the last fixture on the signal run. Pre-manufactured terminator plugs are available for purchase from your Mega-Lite dealer (P-DMX-T).

Fixture

Transmitter



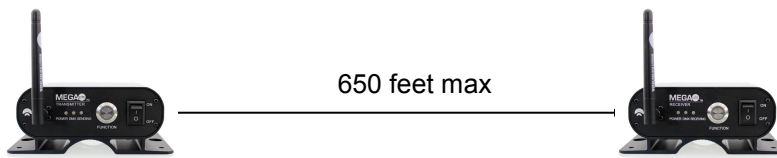
Receiver



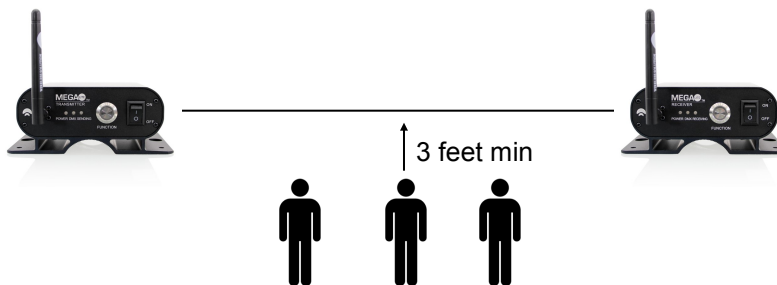
Set Up

For optimum signal transmission the following conditions should be fulfilled.

- A. Distance between Transmitter and Receiver should not exceed 650 feet

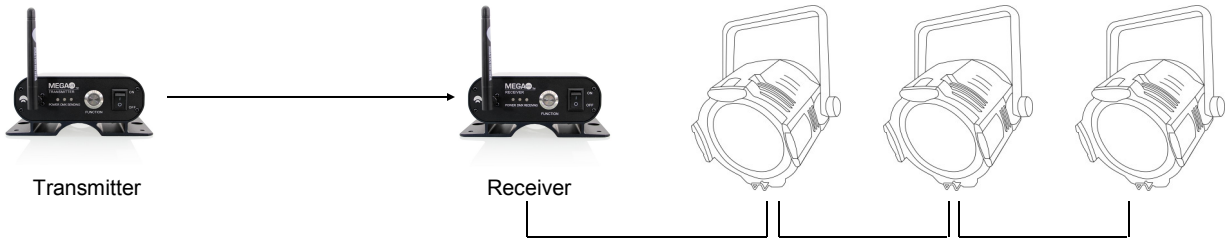


- B. Position on the transmitter should be in clear sight of the receiver with a minimum of 3 feet above any person.

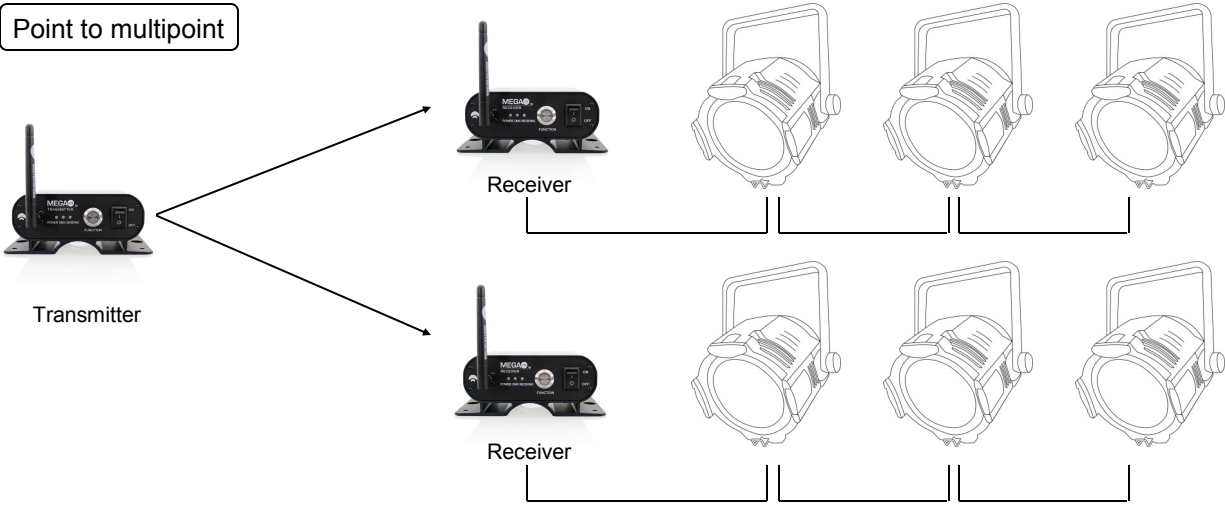


Operation Options

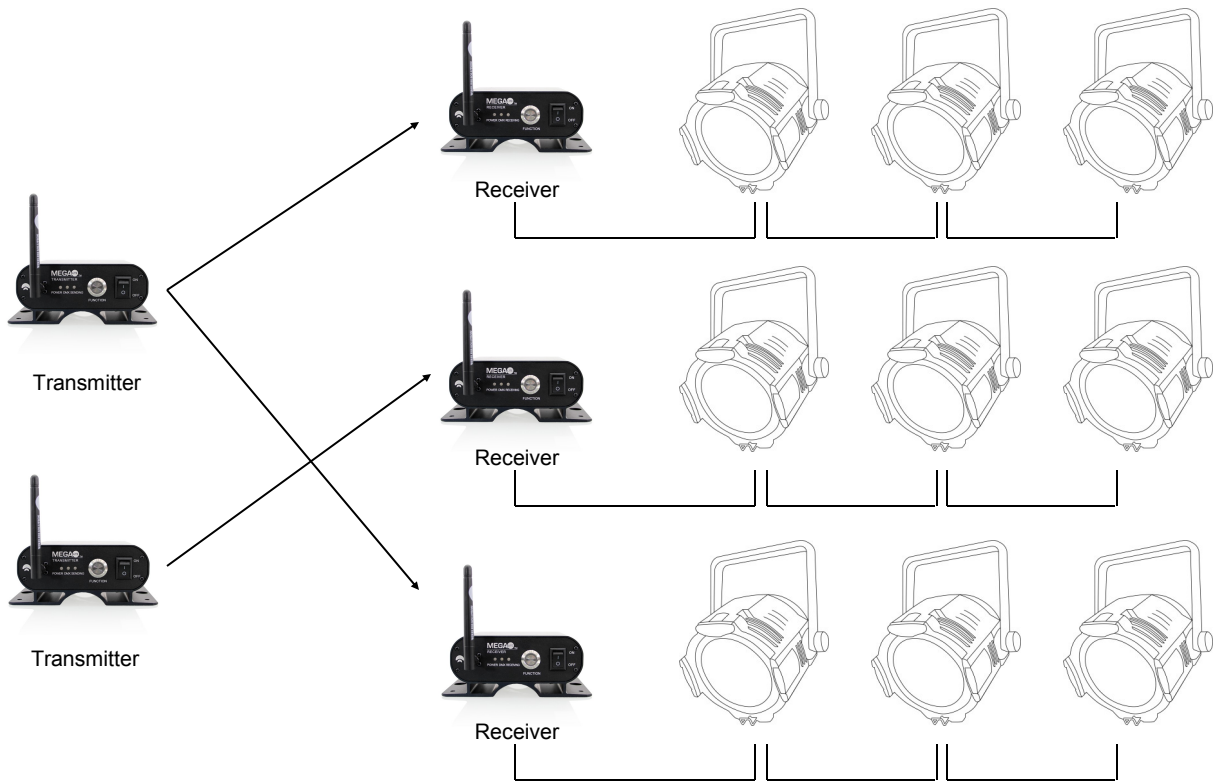
Point to point



Point to multipoint



Multipoint to multipoint



Connection

Point to Point Connection

- 1.1 Connect the **Transmitter** to power, the DMX indicator should be flashing green.
- 1.2 Connect DMX signal into the **Transmitter**, the DMX indicator should be solid green.
- 1.3 Connect the **Receiver** to power, the DMX indicator should be off (if the receiver DMX light 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 receiver for a period of 10 seconds– the DMX indicator on both Transmitter and Receivers will flash rapidly.
- 1.5 If the connection is successful the DMX indicator on the Transmitter and Receiver will be green on. If the connection indicator is not on Green, check that the Receiver is in range and repeat the procedure.

Point to Multi Point Connection

- 1.1 Connect the **Transmitter** to power, the DMX indicator should be flashing green.
- 1.2 Connect DMX signal into the **Transmitter**, the DMX indicator should be solid green.
- 1.3 Connect the **Receivers** to power, the DMX indicator should be off (if the receiver connection light 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 a period of 10 seconds– the connection indicator on both Transmitter and Receivers will flash rapidly.
- 1.5 If the connection is successful the DMX indicator on the Transmitter and Receivers will be solid green on. If the connection indicator is not on Green, check that the Receiver is in range and repeat the procedure.

Multi Point to Multi Point Connection

- 1.1 Connect the **First Transmitter** to power, the DMX indicator should be flashing green.
- 1.2 Connect DMX signal into the **First Transmitter**, the DMX indicator should be solid green.
- 1.3 Connect the **Receiver (s)** to power, the DMX indicator should be off (if the receiver connection light is not off you need to 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 a period of 10 seconds– the DMX indicator on both Transmitter and Receivers will flash rapidly.
- 1.5 If the connection is successful the DMX indicator on the Transmitter and Receiver will be green on. If the connection indicator is not on Green, check that the Receiver is in range and repeat the procedure.
- 1.6 Connect the **Second Transmitter** to power, the DMX indicator should be flashing green.
- 1.7 Connect DMX signal into the **Second Transmitter**, the DMX indicator should be solid green.
- 1.8 Connect the **Receiver (s)** to power, the DMX indicator should be off (if the receiver connection light is not off you need to 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 a period of 10 seconds the connection indicator on both Transmitter and Receivers will flash rapidly.
- 1.10 If the connection is successful the DMX indicator on the Transmitter and Receiver will be solid green on. If the connection indicator is not on Green, check that the Receiver is in range and repeat the procedure.
- 1.11 You can repeat the process up to 16 Transmitters.

To unlink a Receiver

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

To unlink all Receiver

- 1.1 Press and hold the **Function** button on the **Transmitter** for about 5 second until the DMX indicator flashes once and then goes off. Now the Receivers are unlinked

Rigging the fixture

Caution!

1. The installations must be carried out by an authorized dealer or trained professional.
2. Unit may cause severe injures if you have doubts concerning the safety do not install.
3. Unit is to be 24inches 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

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 power Supply: If the power supply 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

9505-ANT	Replacement Antenna
MC2040-MPCB	Main PCB card Transmitter
MC2041-MPCB	Main PCB card Receiver

Warranty Information

Warranty Conditions

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

-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, whether in contract, tort (including negligence), strict liability or otherwise, and whether 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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