AVTech WDMXT500DUOMK2 Wireless DMX Transceiver User Manual

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Contents

INTRODUCTION

Powered by Lumen radio CRMX module, the WDMX T500 DUO MK2 is an versatile and useful tool for lighting professional. With Cognitive Coexistence technology, the CRMX is the most safe and reliable wireless DMX across the globe. It can act as transmitter, receiver or repeater. Ideal for rental, mobile show, event, club, DJ, etc. Please read this user manual carefully and thoroughly before operation.

Unpacking

The following items are included in the box:

- 1 x WDMX T500 DUO MK2
- 1 x Power cable
- 1 x User Manual

Carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Contact your supplier immediately and retain packing material for inspection if any part is missing or damaged.

Safety Instructions

Warning!!! To reduce the risk of fire, electric shock, or injury to persons, follow these important safety instructions:

- This product is intended for indoor use only!
- Please keep this User Guide for future consultation.
- Do not attempt to dismantle and/or modify the transmitter in any way.
- To prevent risk of fire or shock, do not expose fixture to rain or moisture.
- Make sure that the voltage and frequency of power supply match the power requirements of the transmitter/receiver.
- Make sure power cord is never crimped or damaged.
- The transmitter is only intended for installation, operation and maintenance by qualified personnel.

Features

- Supports CRMX and W-DMX G3/G4S protocols

- Automated Cognitive Coexistence technology
- Receiver or Transmitter Flex mode
- Worldwide unlicensed 2.4 GHz frequency
- Maximum universes in one area: 16
- Support DMX & RDM

Specifications

- **Frequency band:** 2.4GHz
- **DMX latency:** <5ms
- **Antenna type:** 5dBi
- **Transmission distance:** approx. 500m
- **IP rating:** IP20
- **Power supply:** AC 220-240V 50-60Hz
- **Power consumption:** 15W max.
- **Fuse:** F1A/250V
- **Dimension:** 482mm x 147mm x 44mm
- **Weight**: 3 kg

FCC Notice

- This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:
  (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications not expressly approved by the manufacturer responsible for compliance could avoid the user's authority to operate the equipment.

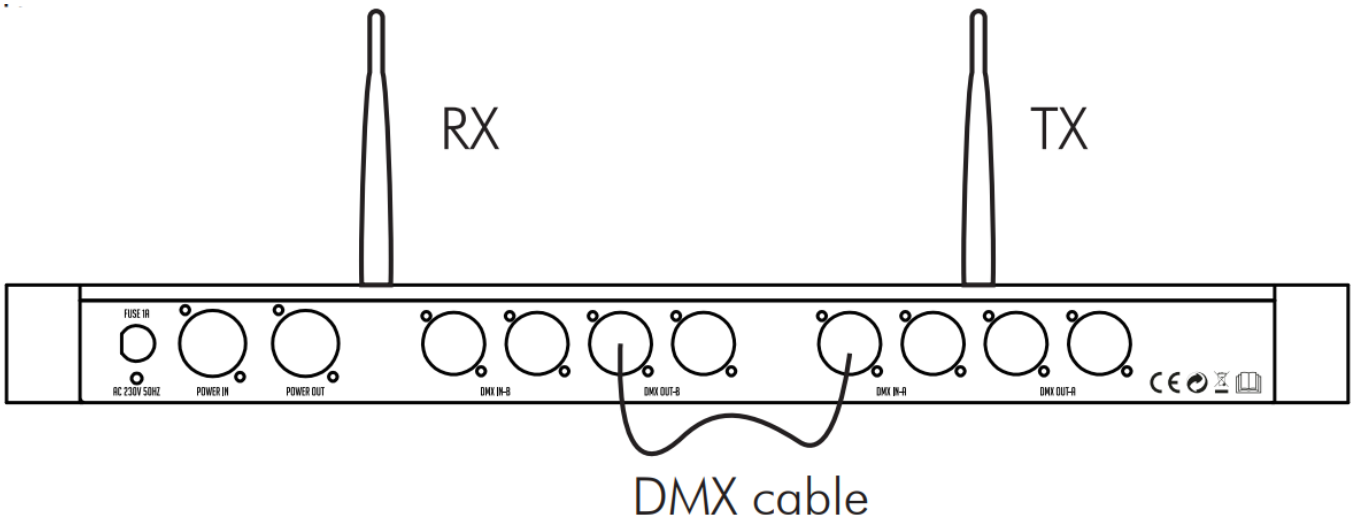
IMPORTANT INFORMATION!

 In order to optimize the recovery and recycling of the materials that old appliances contain and reduce the impact on human health and the environment, ensure that this product is recycled at the end of its life.

Unlink All: press and hold the LINK on the Transmitter for 5 seconds and all paied and powered receivers will be unlinked.

Repeater

To operate the unit as a Repeater, you need to send one universe as Receiver and one as Transmitter, and then use DMX cable to connect the Receiver to Transmitter on back of unit.



TX mode selection

To use this Transmitter together with Wireless Solution's Received of G3 or G4S, you need to select TX mode on a Transmitter unit.

1) Press FUNCTION button shortly 3 times, then press and hold the button for at least
3 seconds to enter TX mode selection. LED will blink in different patterns to indicate currently selected protocol.

One flash then a pause = W-DMX G3 mode is selected

Two flashes then a pause = W-DMX G4S mode is selected

Three flashes then a pause = CRMX mode is selected

IMPORTANT NOTE: The TX mode of Transmitter can't be higher than the Receiver's.
Otherwise, there would be malfunction between Transmitter and Receiver.

RDM function

As default, all products come with RDM disable. To active RDM, use Lumen Radio Dongle and Configurator software.
This change must be done on the transmitter and all receivers that need to downstream RDM.

Production Overview

1. Power switch for A and B universe
2. Antenna for A or B universe
3. Signal strength level for A and B universe, Red = Link problem
4. Function switch for A or B universe
5. Interface LED indicators

LINK on Transmitter:

On=Normal operation, Fast flashing=Linking, Slow flashing =Unlinking

LINK on Receiver:

On=Linked with a Transmitter, Off =Unlinked

DATA on Transmitter:

On=DMX signal is present, Slow flashing =No DMX signal is present

DATA on Receiver:

On when it receives DMX signal from a Transmitter.

RDM: Flashes to RMD activity

MODE: indicates the radio mode.

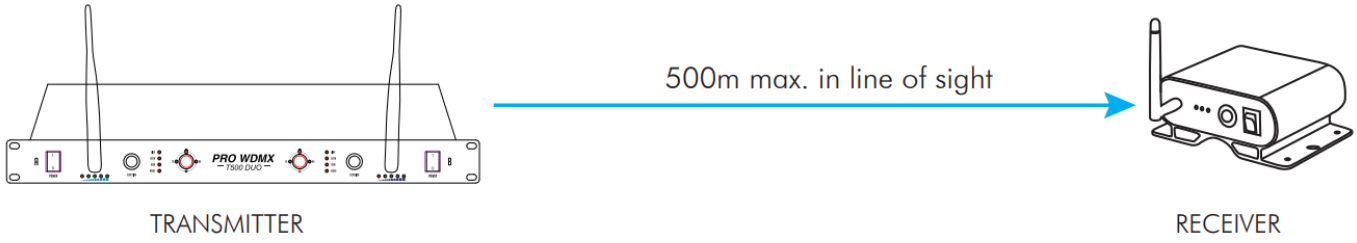
6. TX/RX: switch between TX and TX without power off the unit.
7. TX/RX Lock and indicator: the indicator turns on when TX/TX switch is locked.
   Use a pin to lock or unlock TX/RX switch function.
8. Fuse holder: F1A, 250V
9. Power Con In
10. Power Con Out
11. B-DMX In
12. B-DMX Out
13. A-DMX In
14. A-DMX Out

SETUP

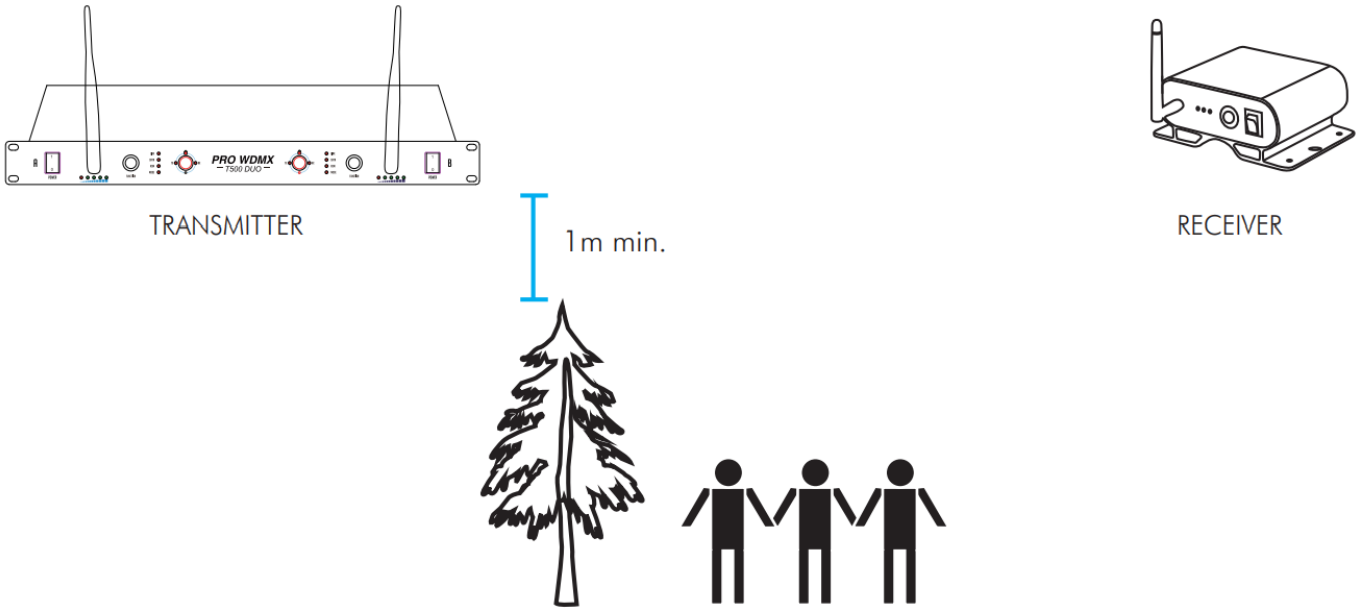
Placing Transmitter and Receiver

For successful linking and better performances, the following conditions should be fulfilled:

a. Distance between Transmitter and Receiver should not exceed 500m.



b. Position of Transmitter and Receiver should be 1m at least above crowds and trees .



Placing Transmitter and Receiver

The Wireless unit can be rack or truss mounted. A safety cable is required to secure the unit when it is mounted onto the truss.

System connection

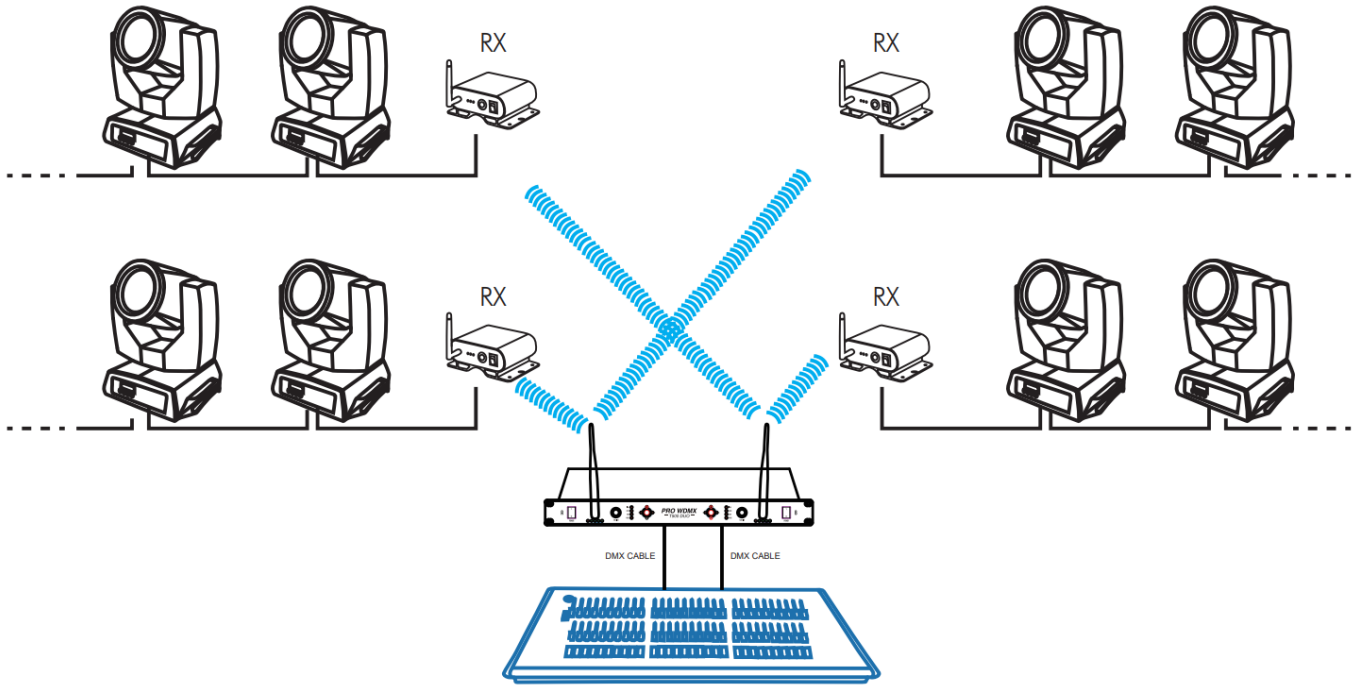
Use DMX cables to connect DMX IN of the TRANSCEIVER to DMX source and DMX OUT of RECEIVER to lighting equipments.

Power Adapter

The wireless system is designed to work on AC 100-240V 50/60Hz. Before applying power to a unit, make sure that the unit's input voltage matches the power source voltage.

Connections

The wireless units can be operated in point-to-point, point-to-multipoint or multipoint-to-multipoint.



Note: Maximum universes in coexistence: 16

OPERATION INSTRUCTIONS

The WDMX T500 DUO MK2 can be used as Transmitter, Receiver or Repeater.

Transmitter/Receiver flex mode

Power on A and B universes, the TX/RX indicator shows its mode and it is easy to switch between TX and RX by pressing the TX/RX switch button.

Linking the devices

Press and quickly release LINK button on the Transmitter. The Transmitter will scan for all unlinked receivers. The LINK indicators on both the Transmitter and Receiver(s) will flash rapidly for 10 seconds and then stay steady on.

NOTE: There is no limited number of receivers that can link up with a transmitter – there can be an infinite number of receivers all paired with a single transmitter.
You can add receivers at any time, even during operation. In an operational system, adding on an additional receiver will make the logged-in units revert to idle mode for 10 seconds; once the new units are linked up they will all start again together with the new unit.

Unlinking the devices

There are two ways to unlink the devices – Unlink One or Unlink All.

Unlink One: press and hold the LINK on a Receiver for 5 seconds and its LINK indicator will turn off.

CE This manual contains important information.
Please read before operating fixture.

Documents / Resources

	AVTech WDMXT500DUOMK2 Wireless DMX Transceiver [pdf] User Manual WDMXT500DUOMK2 Wireless DMX Transceiver, Wireless DMX Transceiver, DMX Transceiver, Transceiver

References

- User Manual