F✲S
technologies

FOS WDMX TRX

PRODUCT DESCRIPTION

The **FOS WDMX TRX** system is compact, lightweight and durable. Utilizing AFHSS - Adaptive Frequency Hopping Spread Spectrum technology, the wireless system transmits or receives safe and reliable DMX data without any delay and interference. Ideal for rental, mobile show, event, club, DJ, etc. Please read this user manual carefully and thoroughly before operation.

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

- 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

- Adaptive Frequency hopping technology - AFHSS
- Completely interference free
- Worldwide 2.45G ISM unLicense Frequency
- Transmit 512 channels (1 universe) of DMX data
- Maximum 16 universes of DMX in one area
- One-button-go for quick setup
- Plug and play, no need configuration for IP address
- Point-to-point, point-to-multipoint or multpioint-to-multipoint operation

Product Overview

Function button   On/Off   Power In Fuse   DMX In/DMX Out

Setup

Placing transmitter and receiver

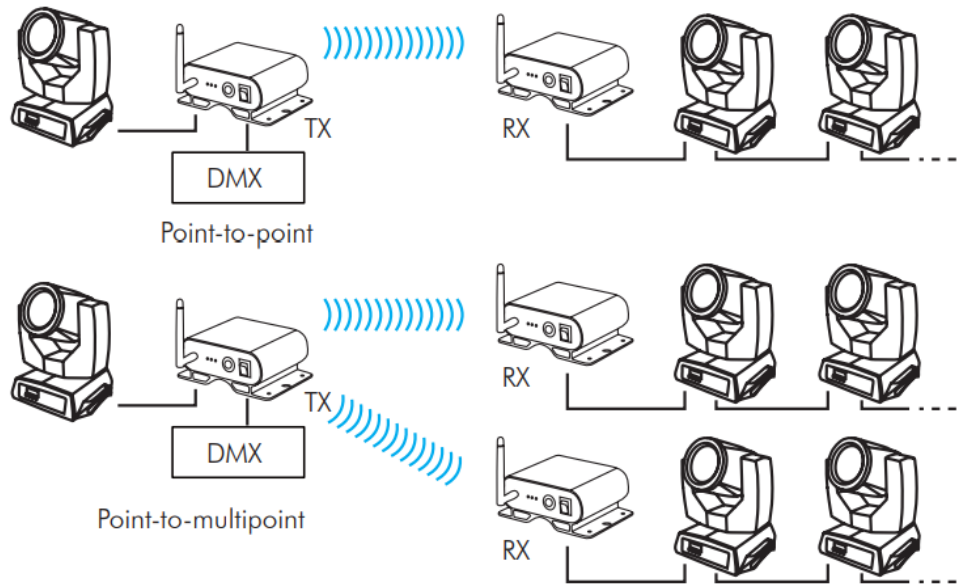For successful linking, the following conditions should be fulfilled:

- Distance between Transmitter & Receiver should not exceed 200 m.
- Position of Transmitter & Receiver should be at least above crowd and obstacles.

Use only DMX cables to connect DMX IN of the Transceiver to DMX source and DMX OUT of the Receiver to lighting fixture.
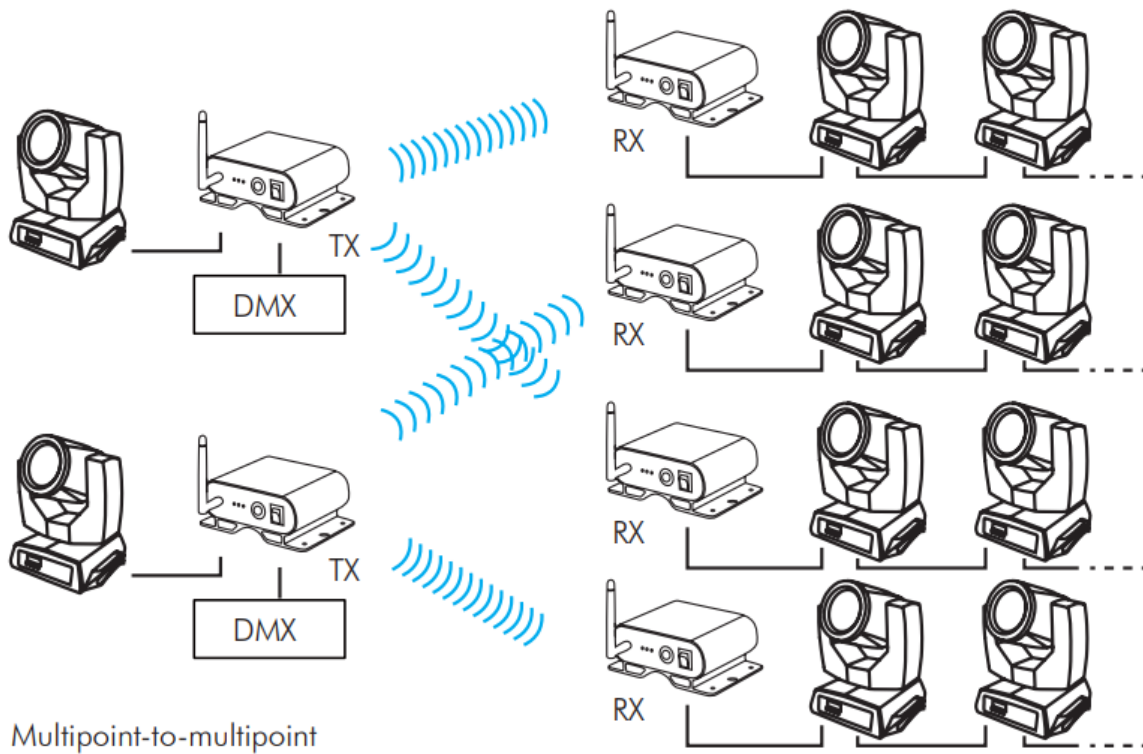
The device is designed to operate with AC 100 / 230 Voltage. Please, before connecting it, make sure that the power supply voltage matches the devices voltage.

Operation Instructions

Types of operation

Point-to-point

Point-to-multipoint

One Transmitter supports one Universe (512 channels) and it can work with the Receivers in Point to Point or Point to Multipoint network types.

Multipoint-to-multipoint

Up to **16 DMX Universes** can be transmitted simultaneously using multipoint to multipoint operation. All receivers in a multipoint system will listen only to the designated transmitter without any delays or interference from other systems working alongside.

Adding Receivers

1. Power on the Receiver unit(s) and ensure that they are not linked with any other transmitter (LINK indicators should be OFF).
2. Press and quickly release FUNCTION button on the Transmitter. The transmitter will scan for all unlinked receivers for a period of 10 seconds - the LINK indicator on both the Transmitter and Receiver(s) will flash rapidly.
3. If successful, the LINK indicator on Receiver(s) now go ON. If any failed, check that the Receiver is in range and repeat procedure.

You can add receivers at any time, even during operation. In an operational system, logging on an additional receiver will make the logged-in units revert to idle mode for 10 seconds; once the new units are logged-in they will all start again together with the new unit.

Unlink a Receiver

Press and hold the **FUNCTION** button on the Receiver for about 3 seconds till the **LINK** indicator go off. Now the Receiver is unlinked.

Unlink all Receivers

On the Transmitter, press and hold the **FUNCTION** button until **LINK** begins flashing. All registered Receivers linked to that Transmitter will be unlinked.

The Receiver will stay linked/logged on to the Transmitter no matter DMX signal or power is cut off. The log-in information is stored in an EEPROM and will not be erased.

Setting a TRANSCEIVER to Transmit or Receive

The **TRANSCEIVER** can be used as a Transmitter or Receiver. To switch mode between Transmitter and Receiver, power off the unit, then hold the FUNCTION button while power on the unit for 2 seconds. When DMX and MODE indicators turn off, then the unit is a Receiver. Otherwise, it is a Transmitter.

Specifications

Transmission distance: 200m

IP rating: IP20

Power supply: AC 110V or 230V 50-60Hz

Dimension: 145mm x 100mm x 57mm

Weight: 1.40kg

FFC 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 Notice

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.