## LC-512X

## Wireless DMX512 Transceiver

- FHSS with 79 Channels, interference-free operation.
- 32-bit ARM Processor, DMA transfer without delay
- Standard DMX512 3-pin XLR, 5-pin XLR, Transceiver
- One-touch operation with a Tri-color status indicator
- Built-in Wireless Solution
   Compatibility Mode
- Automatically learning of various parameters of controller, just like DMX transfer via cable
- Group Mode, easy plug-and-play operation; Pairing Mode, supports more transmitter universes



WIDMX LC-512X is unique in its use of advance radio technologies that are also used in military communication and mobile phones. That is 2.4GHz ISM Band (license-free worldwide) and GFSK Modulation (more efficient transitions). Its user-friendly operation that simplifies all the complex communication protocols makes it possible for the users to just plug and play.



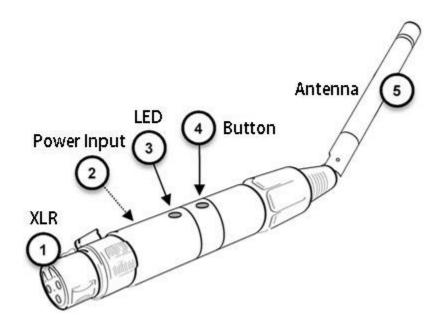
## Multiple Communication Protocol, There are no upgrading troubles

WIDMX LC-512X is now compatible with the world's leading wireless communication protocols like the Sweden's protocol or the GZ protocols. There are no upgrading troubles.

## **Application**

 Stage lighting applies to the Grand Variety Show, Gymnasium, Temporary Set-up Stage, TV Station, Centers Conference, Theaters, Opera, Theme Parks, Dance Halls, and Bars, or any lighting equipment with standard DMX512 XLR etc.

## **Appearance**



## **Description of Status Indicator**

# 1) In the Set-up mode, different colors mean different communication protocols:

Red ------- WIDMX Protocol
 Green ------ W-DMX Receive Protocol
 Blue ----- W-DMX G3 Transmit Protocol
 Yellow (Optional) ----- Guangzhou(GZ) Protocol
 Purple (Optional) ----- W-DMX G4 Transmit Protocol

## 2) In the User mode, Description of Status Indicator:

Protocol	Action	Status Description
WIDMX or GZ Protocol	Red, Green, Blue, Yellow,	6 / 7 Different Wireless
	Cyan, Purple (, White)	Groups
	Flashing Red	Transmitting DMX Signal
	Flashing Green	Receiving DMX Signal
W-DMX Receive Protocol	White	Connection is not Established
	Red	Deleting Connection
	Red(Fast-Flash)	Connection is Lost
	Green(Fast-Flash)	Connecting to Transmitter
	Green(Slow-Flash)	Connected, Without DMX Signal
	Green	Connected, Receiving DMX Signal
W-DMX Transmit Protocol	Red	Deleting all Receivers' Connection
	Blue(Fast-Flash)	Connecting with the Receiver(s)
	Blue(Slow-Flash)	No DMX Signal Input
	Blue	Transmitting DMX

## **Operation Guide**

### 1. Set-up mode:

Press and hold the button before you power up. When you see status indicator turns into the white light, release the button to enter the Set-up mode. In this mode you can select different transmission protocols. Each time you press the button, you would see the status indicator changes in follow order: red, green, blue and yellow. Choose one of the protocols, then press and hold the button (> 1S), when you see the white light, release it to enter the use mode.

#### 2. Use mode:

- 1) Powered up and enter the Use mode;
- 2) If it is in Set-up mode, press and hold the button (> 1S) until you see the white light, then release it to enter the Use mode.

# 2.1. In WIDMX protocol or GZ protocol, you could select different DMX Group:

- 1) The first time when you press the button, it will not change the color but show you the group that you are in.
- 2) If you press it again it will switch to other group.

### 2.2. In W-DMX G3 or G4 Transmit protocol:

- 1) By pressing the button, the transmitter can be connected to all powered but not connected receivers within the coverage area;
- 2) Press and hold (> 3S) the transmitter's button until the indicator turns red. The device will delete all the receivers' connection within the coverage range.

### 2.3. In W-DMX Receive protocol:

Press and hold (> 3S) the receiver's button until the indicator turns white. The device would disconnect with the transmitter.

## **Specifications**

#### **Form Factor**

Type: stand-alone installation

Size: 212 x 18 x 18 mm (with ANT)

Weight: 210 g

**System Information** 

CPU: 32-bit ARM Core

**Radio Parameters** 

Range: 600 meters (line-of-sight)

Frequency: 2.402 - 2.480GHz, ISM, 79 channels

Spread Spectrum: FHSS, 1100 hops / sec

Modulation: GFSK

Maximum Transmit Power: 23dBm

Receiver Sensitivity: -94dBm

**DMX Signal Interface** 

3-pin or 5-pin male XLR

3-pin or 5-pin female XLR

**Environmental Limits** 

Operating Temperature: -40 ~ 85 °C

Storage Temperature: -65 ~ 150 °C

Ambient Relative Humidity: 5 to 95% (non-condensing)

**Power Requirements** 

Power Input: DC 5V, ±5%

Power Consumption: 350 mA@5V DC max.

Reliability

Automatic Reboot Trigger: Built-in WDT (watchdog timer)

Warranty

Warranty: Five-Year Limited Warranty