DMX Wireless Transceiver - User Manual

Item no.: LC-009-000

1. Product Information

The DMX512 is a powerful wireless transceiver, which transmits the standard DMX512 protocol in the form of wireless transmission, replacing the long-time used cable transmission, no time delay in the process of data transmission, real-time and reliable, using 2,4G global open ISM frequency. It can be one emitter and one receiver, or several receivers (supporting piont to point, point to multipoint), one emitter configurate several receivers, as long as the receiver and emitter set the same frequency. It is widely adapts the DMX512 controller manufactured by various suppliers. Total of 126 channels, it can be used in the same place individually of 126 groups of wireless network and none mutual interference.

2. Specification

Input Voltage	5-36VDC
Transmission Signal	DMX512/1990
Transmitting Power	20dBm
Receive Sensitivity	-96dBm
Distance	bis zu 350 Meter
Operating Frequency	2.4GHz ISM 126 Frequenzskalierungen
Product Dimensions (L x W x H in mm)	176 x 46 x 30mm
Weight	155g

3. Basic Features

1. Adapts 2.4G global open ISM frequency, license free, high efficient GFSK modulation.
2. Adapts to the international standard DMX512 protocol.
3. One emitter configurate several receivers, as long as the receiver and emitter set the same frequency.
4. Total of 126 channels, it can be used in the sameplace individually of 126 groups of wireless network and none nutual interference
5. There are 4 levels of the transmitted power. At the max transmitted power (20dBm), Visual communication distance is upto 350 meters.

6. It has a self-test mode for the situation when the wireless link quality test or engineering installation debugging is needed.
7. If further distance is needed, it can be used as relay setting, relay once or many times in order to achieve the required distance.
8. Multi-usage, can be set as a receiver or emitter, convenient to use.
9. Wrong wiring protection at signal input port.

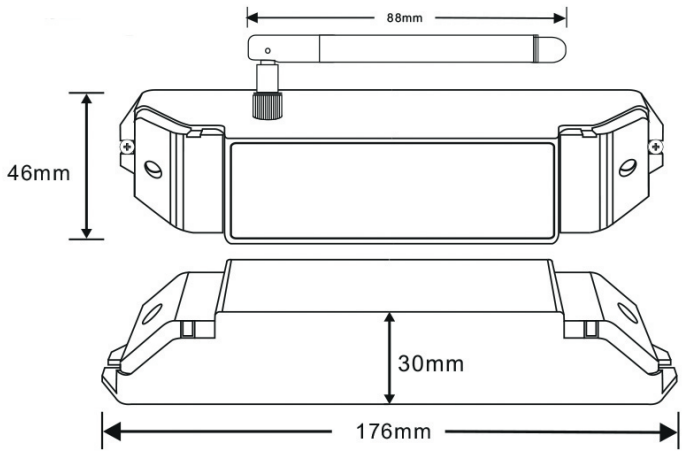
4. Operating Instructions

No.	Frequenz	Remark
1	1	126 channels frequency option Example: set the working frqeuency in 52. Put the DIP switch „3, 5 and 6“ to „1“, the rests are „0“, now the total value of DIP switch 1-7 is 4+16+32, that is the DMX512 wireless transceiver frquency 52.
2	2	
3	4	
4	8	
5	16	
6	32	
7	64	
8	Set the controller as emitter or receiver „DIP SWITCH „1“ as the emitter mode, and „0“ as receiver mode)	
9	Choose the transmit power setting: 00 as 5 dBm, 01 as 10 dBm, 10 as 15 dBm, 11 as 20 dBm (Maximum 20 dBm)	
10		

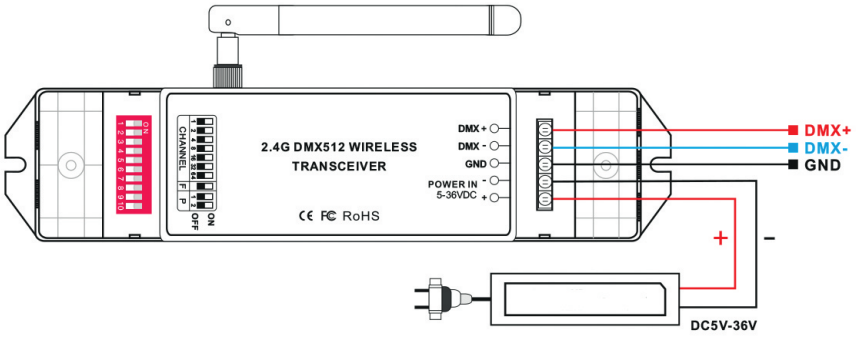
4. Safety warnings

4.1. Please don't install this controller in lightening, intense magnetic and high-voltage fields.
4.2. To reduce the risk of component damage and fire caused by short circuit, make sure correct connection
4.3. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
4.4. Check if the voltage and power adapter suit the controller (please select DC5-24V power supply with constant voltage)
4.5. Don't connect cables with power on, make sure a correct connection and no short circuit checked with instrument before power on.
4.6. Please don't open controller cover and operate if problems occur. The manual is only suitable for this model, any update is subject to change without prior notice.

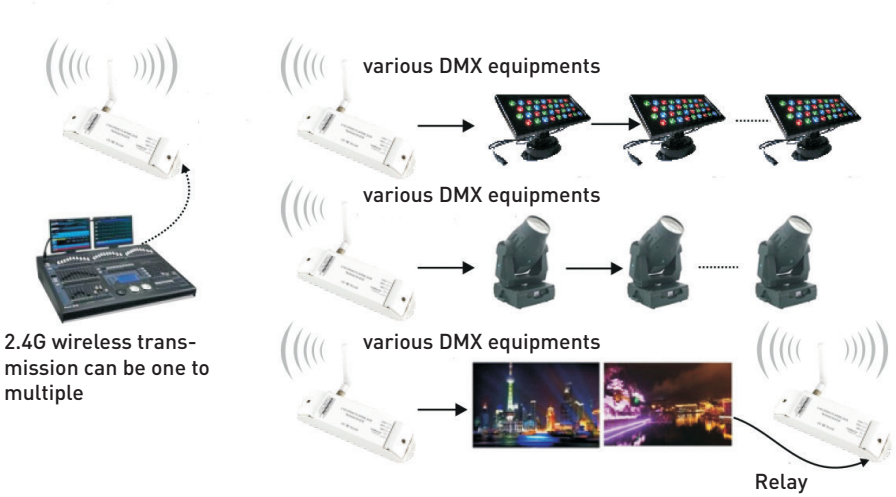
5. Dimensions



6. Conjunction Diagram



7. System Diagram



8. Exception handles

Malfunction	Reasons	Solutions
No signal received	1. not Power on	1. check the power wiring
	2. wire the power + - not correct	2. correct wiring to + and -
	3. wrong frequeny used	3. choose the correct frequency with the Jumpers as per emitter
no singal emit	1. emitter mode not used	1. set the emitter mode with the jumper 8 to switch „1"
not enough transmit distance	1. wrong transmit power used	1. set the correct transmit power