PRODUCT MANUAL
Wireless DMX512 Transmitter/Receiver

DESCRIPTION

Solid Apollo's Wireless Transmitter/Receiver is used in any LED lighting installation that requires the use of DMX technology for lighting control. Until now, any DMX enabled LED lighting fixture, had to be wired with DMX cable in order to control the lights. This becomes a problem when there are long distances between the control system and the lights. Using Solid Apollo's Wireless DMX Transmission and Receiver System, DMX enabled lights can be controlled easily up to 2100 feet away. The unit has 16 different selectable ID Groups, which can be easily selected in order to have many units working in the same environment without interfering each other. This is especially useful when there are big installations being done which require many channels or DMX units to work in different configurations.

How to use the unit:

This unit can be used as a Transmitter or Receiver. In order to select which mode you want to use, (transmitter or receiver), you just have to plug a 3 pin XLR compatible DMX 512 cable in the back of the unit (fig. 1). If you wish to use the unit as a Transmitter, you would use the DMX IN port at the back of the unit. If you wish to use the unit as a receiver, you will have to use the DMX Out port on the back of the unit.

Essential Product Features

- Can Be Used As Transmitter Or Receiver
- Can Be Used As A Data Repeater Over Long Distances
- 2.4Ghz ISM Transmission Technology
- (2)x(8) Bit LCD Backlit Display
- Four Output Power Levels
- Max Transmission Distance 2100 Feet Un-Obstructed
- 126 Frequency Hopping Auto Selection And Channel Lock
- Up To (16) Different ID Groups For Big Installations
- Max Transmitting Power 20DBM
- Receiving Sensitivity: -94DBM
- DMX Signal Terminal Three Pin Female Male XLR (fig. 1)

INSTRUCTION

Once you have decided how you are going to use the unit (As a receiver or transmitter) we now have to configure 2 options on the front of the unit:

1. Power Level: The unit has four available power levels: (0), (1), (2), (3). Level (3) is the most powerful transmission mode. Ideally you should always choose (0) as initial power selection. If the configuration does not work, then increase power output to (1), then (2) and finally to (3). (see fig. 2)

2. ID Channel: This Unit has (16) different ID Groups. The reason: depending on the configuration, you may wish to have many Wireless DMX Transmitter/Receiver units working in the same setup, with no interference between units.

Example:

Imagine you wish to have two independent DMX controllers in the same setup, each controlling different DMX enabled Lights. We would use this setup: Two DMX Wireless Transmitters the first with Group ID 1 and the second one with Group ID 2; on the other side of the setup, where the DMX enabled Lights are, we would have two Wireless Receiver units, Group ID 1 and Group ID 2.

This will enable us to have two independent systems working together in the same setup, without interfering with one another.

DMX Transmitter/ Receiver

Front of Transmitter/Receiver

Back of Transmitter/Receiver

BACK VIEW

Fig. 1

DC INPUT
DC 9V-12V
300mA Min

1

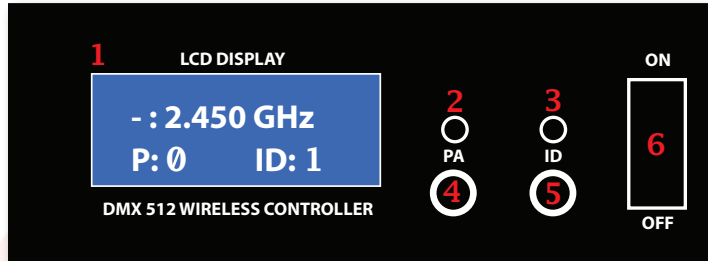2 DMX IN

3 DMX OUT

ANT

4

Once the unit senses a DMX signal coming in, or a LED DMX enabled fixture connected to the DMX OUT, the unit will configure itself as a receiver or as a transmitter. (See figure1)
1. Connect power here with the supplied Power Adaptor.
2. DMX IN Port
3. DMX Out Port
4. Antenna

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DMX Manual

HOW TO CHANGE POWER TRANSMISSIONS LEVELS:

FRONT VIEW

Fig. 2

1 LCD DISPLAY

- : 2.450 GHz
P: 0   ID: 1

DMX 512 WIRELESS CONTROLLER

2 PA **4**

3 ID **5**

ON

6

OFF

CHANGING POWER TRANSMISSIONS LEVELS:
(Fig. 2)
1. LCD Display
2. RED LED: When ON Unit is working as transmitter
3. Green LED: When ON Unit is working as receiver
4. Button to change between (4) power transmission levels: 0-1-2-3
5. ID Group Button: You can select between (16) different ID Groups:
     0-1-2-3-4-5-6-7-8-9-A-B-C-D-E-F

UNDERSTANDING THE LCD DISPLAY:
P: Stands for Power–Use Button (4) from (fig. 2) to change value
ID: Stands for ID Group – Choose between sixteen possible values with
     Button (5) from (fig. 2)

POSSIBLE DMX TRANSMISSION CONFIGURATIONS:

DMX Control System

DMX WIRELESS TRANSMISSION

DMX Wireless Receiver

LED Fixture

LED Fixture

DMX Wireless Receiver

LED Fixture

LED Fixture

USED AS DATA REPEATER

DMX Control System

DMX WIRELESS TRANSMISSION

DMX Wireless Receiver

DMX Wireless Transmitter

DMX Wireless Receiver

LED Fixture