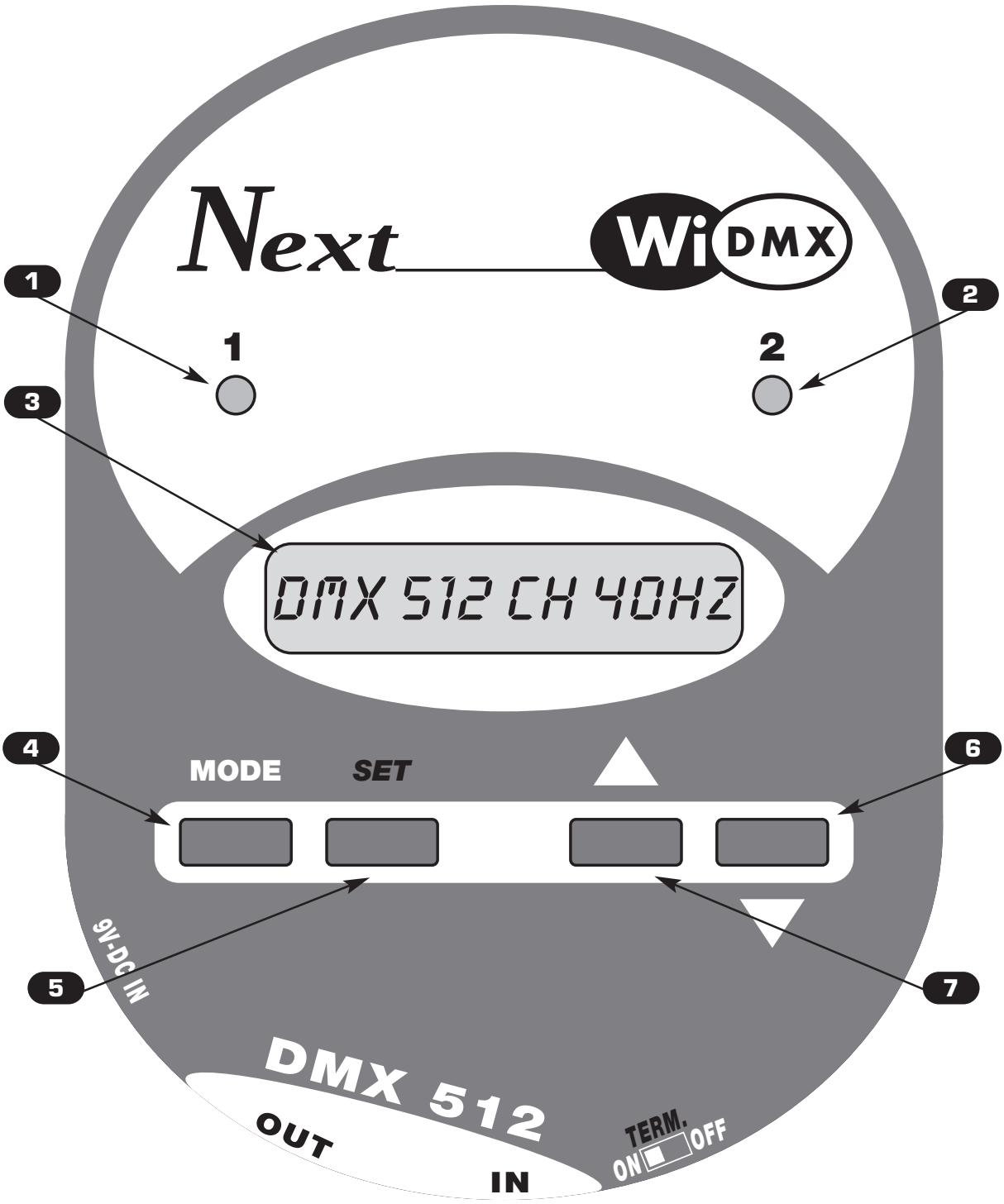
Next

WiDMX

Wireless DMX 512 TRANSCEIVER

GB USER'S MANUAL

*We congratulate you on your purchase of **Wi DMX.***
Before you proced using this product it should be necessary to read carefully the following user's manual to install it correctly and to get the best of its potentialities.


Next
WiDMX
1
2
1
2
3
DMX 512 CH 40HZ
4
6
MODE
SET
5
7
9V-DC IN
DMX 512
OUT
IN
TERM.
ON
OFF

1 *Shows the state of transmission/receipt of the channel 1*

2 *Shows the state of transmission/receipt of the channel 2*

3 *LCD display, it shows all the informations on the Wi DMX functions.*

4 *MODE key*

5 *SET key*

6 *DOWN key*

7 *UP key*

INDEX

Setting of the equipment

1.1 Unpacking of the equipment
1.2 Acessories issued with the equipment and relative documentation

Description of the side panel and installation

2.1 Description of the side panel
2.2 Making a DMX 512 signal cable
2.3 Input connection for power supply
2.4 Connection of the ac-adapter to the electric system

Initial setting

3.1 Setting of the operating mode

Use of the equipment - operating modes

4.1 ***TRANSMITTER*** mode
4.2 Setting of ***Tx1***
4.3 ***LED 1*** function
4.4 Setting of ***Tx2***
4.5 ***LED 2*** function
4.6 Receiver **PAIRING**

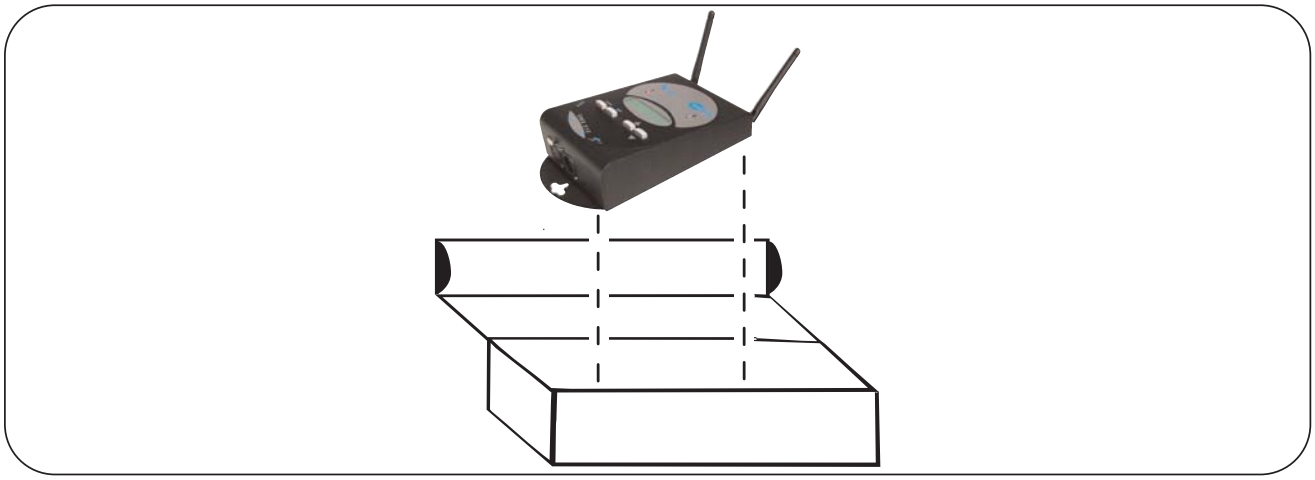
5.1 ***RECEIVER*** mode
5.2 State of ***Rx1***
5.3 ***LED 1*** function
5.4 State of ***Rx2***
5.5 ***LED 2*** function
5.6 Pairing with Transmitter **(GET PAIRING)**
5.7 Pairing with Transmitter **(GET PAIRING) using Wi D PEN**

6.1 ***EXTENDER*** mode
6.2 Setting of ***Tx1***
6.3 ***LED 1*** function
6.4 Setting of ***Rx2***
6.5 ***LED 2*** function
6.6 Receiver **PAIRING**
6.7 Pairing with Transmitter **(GET PAIRING)**
6.8 Pairing with Transmitter **(GET PAIRING) using Wi D PEN**

1.1 UNPACKING OF THE EQUIPMENT

Open the box; Remove the ac-adapter and the documentation.

Take the equipment out of the box as shown in the picture below.



1.2 ACCESSORI IN DOTAZIONE E DOCUMENTAZIONE RELATIVA

Verify the contents of the packing.
If one of the following parts of the packing is missing or damaged, please, contact your dealer immediately.

- **Wi DMX**
- **User's manual.**
- **Warranty**
- **Ac-adapter mod.1882108**
- **1 XLR 3/5 P male connector**
- **1 XLR 3/5 P female connector**

Read the following warnings before beginning installation.

• This unit is not intended for home use.

• Read this manual thoroughly and observe the following precautions before working with the Wi DMX.

• Take care not to spill liquids on to the controller and do not use it in excessively humid conditions.

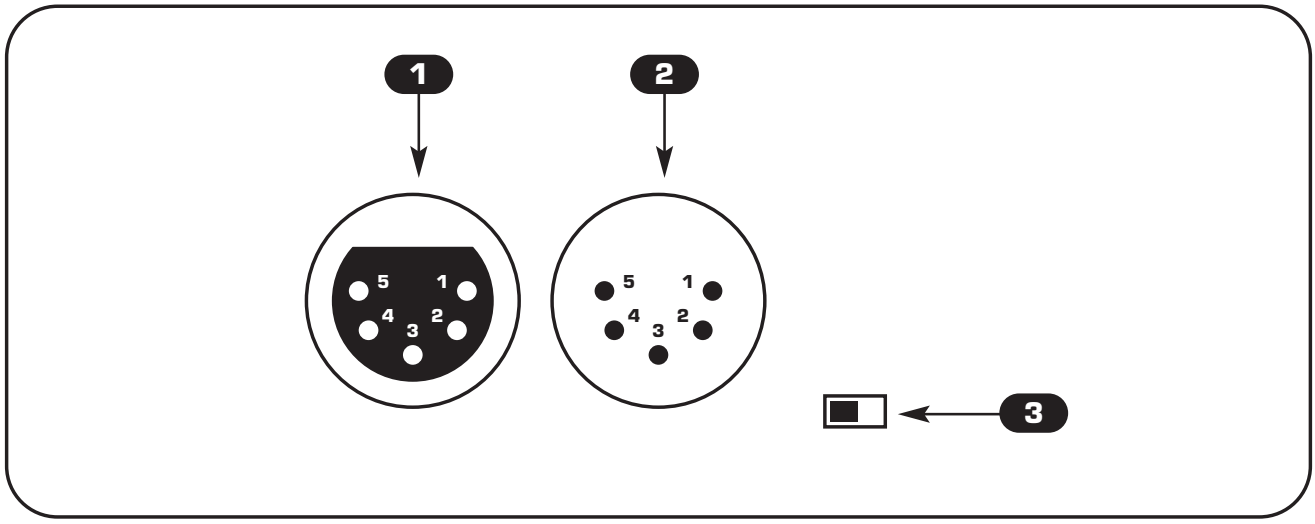
• Do not install Wi DMX near heat sources or expose it to direct sunlight and do not install in dusty environments without suitable protection.

• Do not use Wi DMX unless the ac-adapter cable and plug are in perfect condition (replace or repair if necessary).

• Do not use solvents such as acetone or alcohol to clean the controller or the finish and panel lettering will be damaged.

• If a fault occurs, consult your nearest service centre or a specialized light equipment repair service. Do not attempt to repair the controller yourself.

2.1 DESCRIPTION OF THE SIDE PANEL



1 Standard DMX 512 signal OUTPUT with a 3/5-pole cannon connector.

2 Standard DMX 512 signal INPUT with a 3/5-pole cannon connector.

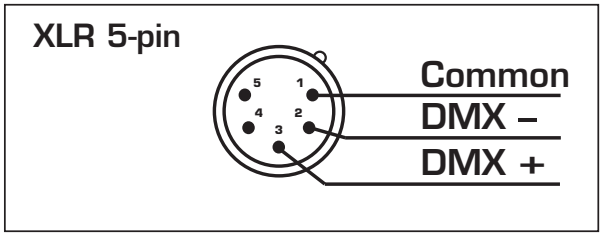
3 DMX TERMINATOR

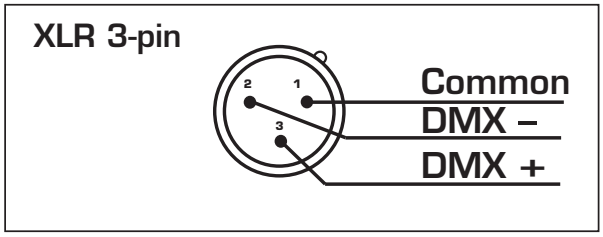
2.2 MAKING A DMX 512 SIGNAL CABLE

Wi DMX has a **DMX 512** input/output that uses standard **XLR 5-pin** or **XLR 3-pin** connectors.
The connection must be put into practice with shielded cable by these characteristics:

- **2 conductors + shield**
- **120 Ohm impedance**
- **low capacity**
- **maximum transmission rate 250 Kbaud.**

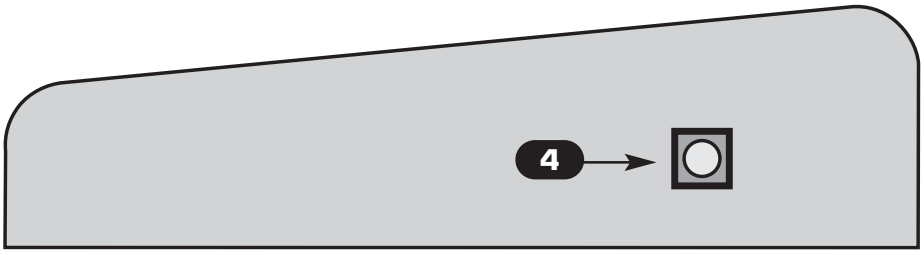
For the connection refer to the underlying picture





ATTENTION: the shield of the cable must never be connected to the ground of the electrical system as this could cause faults during the working of the Wi DMX.

2.3 INPUT CONNECTION FOR POWER SUPPLY



Plug the connector of the ac-adapter completly in the power input **4**
To disconnect it, extract gently.

ATTENTION: do not use ac-adapters different from the one supplied, it could cause serious damages at the internal circuitation.

2.4 CONNECTION OF THE AC-ADAPTER TO THE ELECTRIC SYSTEM

MAKE SURE THAT VOLTAGE AND POWER FREQUENCY CORRESPOND TO WHAT IS REPORTED ON THE BALLAST PLATE.

The supplied ac-adapter has a plug, therefore you should only plug it in the socket.

When **Wi DMX** is powered, the lcd display appears as in (Fig.1),if this condition is not true, please check if there is power in the electric socket or check the connection between ac-adapter/controller and ac-adapter/electric socket.
If the problem persist, please consult your dealer.

Fig. 1

3.1 SETTING OF THE OPERATING MODE

The Wi DMX factory default mode is TRANSMITTER

REGARDLESS OF THE MODE, YOU MUST EXECUTE THE PAIRING OPERATIONS EXPLAINED IN THE RELATIVE CHAPTERS OF THIS MANUAL

This procedure allows to change between *TRANSMITTER - RECEIVER - EXTENDER* mode of operationa.

-Power down the Wi DMX.
-While holding down ***SET*** key (Fig.2), Power up the Wi DMX.

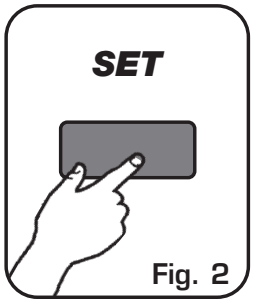


Fig. 2

The lcd display appears as in (Fig.3).
Use ***UP/DOWN*** keys to change operating mode.
Confirm with ***SET*** key (Fig.2).

Fig. 3

4.1 TRANSMITTER MODE

This operation mode allows you to transmit the DMX 512 signal coming from a controller to the paired receivers, through two channels of transmission.

The connection must be like in (Fig.4)

Wi DMX analyzes the DMX 512 signal as soon as the XLR connector is inserted and shows the number of channels generated from the controller (Fig.5);
in absence of signal the display appears like in (Fig.6).

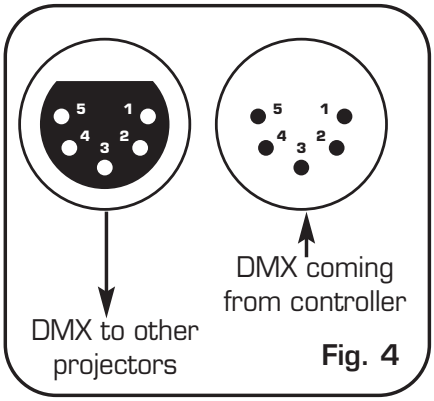


Fig. 4

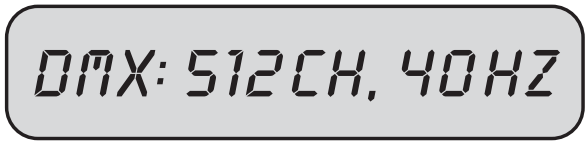


Fig. 5

Fig. 6

4.2 SETTING OF TX1

This function allows to set the range of DMX channels to transmit on band 1 (RED LED) to the paired receivers and the RADIO channel to use, among the ten available (from 0R to 9R).

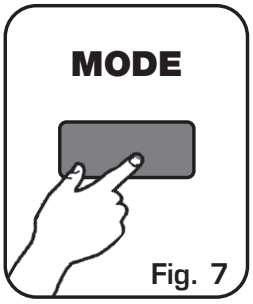


Fig. 7

With **MODE** key (Fig.7) find the text like in (Fig.8).

To change the setting hold ***SET*** key (Fig.9) until the first value starts blinking (Fig.10).

Use ***UP/DOWN*** keys to change the value (Fig.11).

Use **MODE** key to move to the next value (Fig.7).

When finished, confirm with ***SET*** key (Fig.9)

Fig. 8

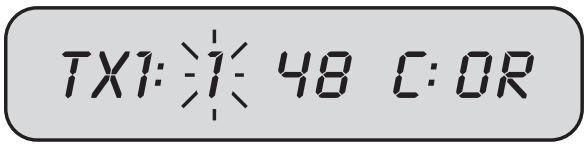


Fig. 10

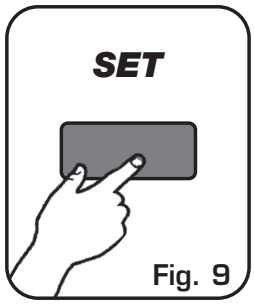


Fig. 9

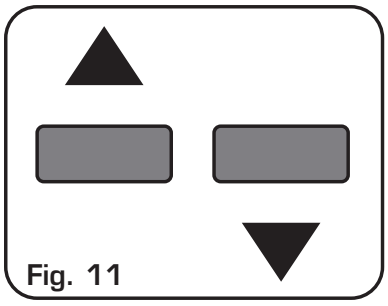


Fig. 11

The range of DMX channels to transmit must correspond to the channels used by the projectors connected to the paired receivers on band 1. You should set such projectors on consecutive DMX addresses.

N.B.: If you get problem of transmission, try changing the Radio channel.

When Radio channel is modified, receivers start searching until they find the new Radio channel.

4.3 LED 1 FUNCTION (RED)

Slow blinking: Transmitter OK, no DMX 512 signal.
Switched on : Transmitter OK, DMX 512 signal OK.

4.4 SETTING OF TX2

This function allows to set the range of DMX channels to transmit on band 2 (GREEN LED) to the paired receivers and the RADIO channel to use, among the ten available (from 0G to 9G).

With **MODE** key (Fig.12) find the text like in (Fig.13).

To change the setting hold ***SET*** key (Fig.14) until the first value starts blinking (Fig.15).

Use ***UP/DOWN*** keys to change the value (Fig.16).

Use **MODE** key to move to the next value (Fig.12).

When finished, confirm with ***SET*** key (Fig.14)

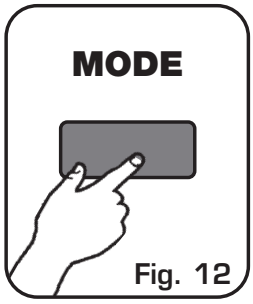


Fig. 12

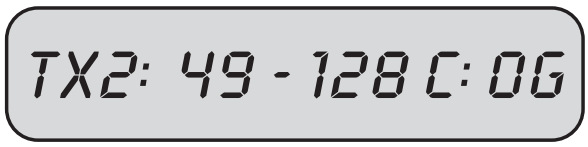


Fig. 13

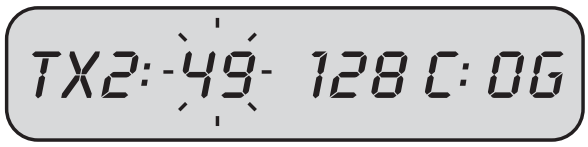


Fig. 15

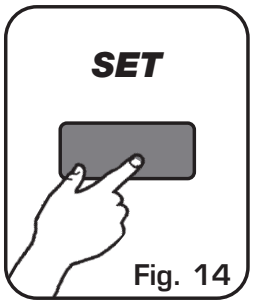


Fig. 14

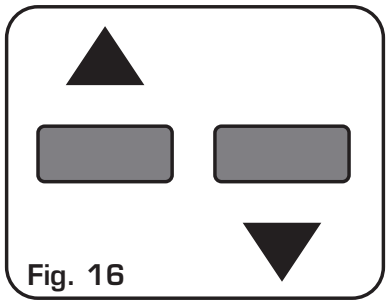


Fig. 16

The range of DMX channels to transmit must correspond to the channels used by the projectors connected to the paired receivers on band 2. You should set such projectors on consecutive DMX addresses.

N.B.: If you get problem of transmission, try changing the Radio channel.

When Radio channel is modified, receivers start searching until they find the new Radio channel.

4.3 LED 2 FUNCTION (GREEN)

Slow blinking: Transmitter OK, no DMX 512 signal.
Switched on : Transmitter OK, DMX 512 signal OK.

4.6 RECEIVER PAIRING

This function allows to pair the receiver Wi D Pen to the transmitter Wi DMX, to avoid interactions with other apparatuses of the same type.

With **MODE** key (Fig.17) find the text like in (Fig.18).

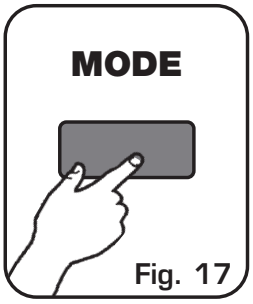


Fig. 17

Connect **Wi D Pen** to the DMX 512 transmitter signal IN (Fig.20/1) without connecting **Wi D Pen** ac-adapter.

Hold ***SET*** key (Fig.19) until a writing appears like in (Fig.20).

Fig. 18

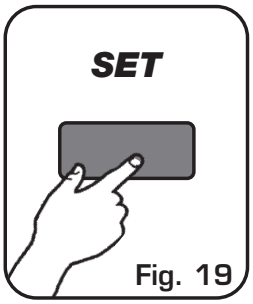


Fig. 19

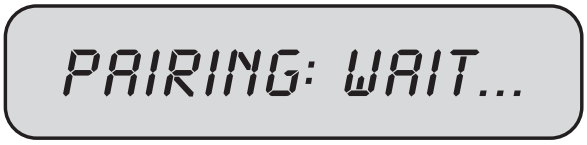


Fig. 20

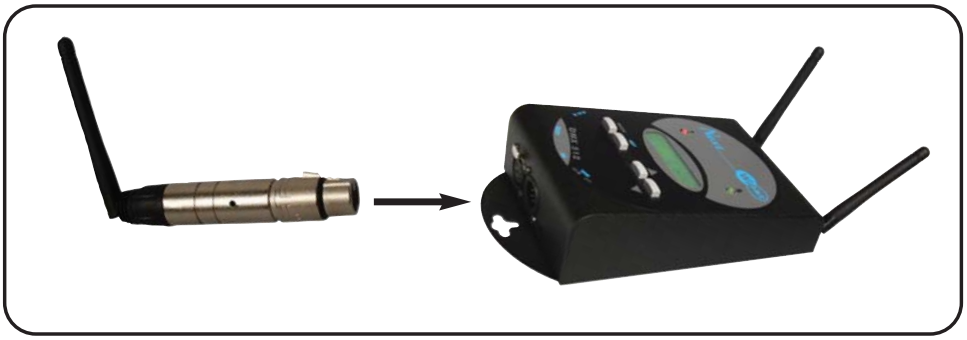


Fig. 20/1

After a few seconds a result of the operation is given; if like in (Fig.21) pairing succeeded; else the message of (Fig.22) appears.

Fig. 21

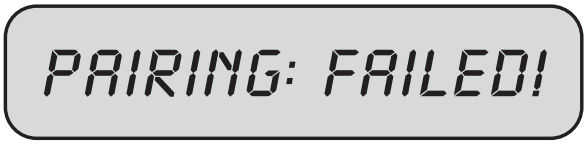


Fig. 22

5.1 RECEIVER MODE

This operation mode allows you to receive the DMX 512 signal coming from a Wi DMX transmitter and provide it to the connected projectors.

The connection must be like in (Fig.23).
In this mode switch terminator to **ON**

Wi DMX receives the Radio signal and shows the number of channels generated (Fig.24);
in absence of Radio or DMX signal the display appears like in(Fig.25).

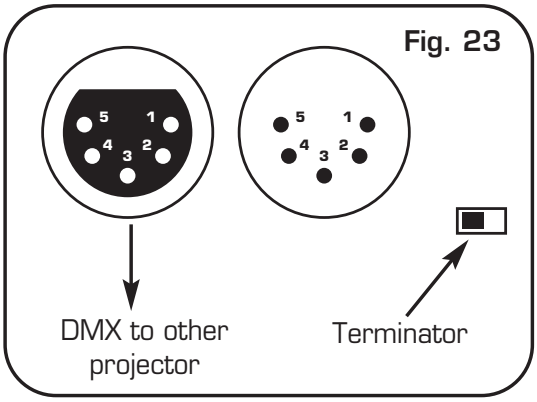


Fig. 23

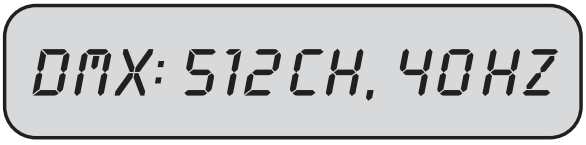


Fig. 24

Fig. 25

5.2 STATE OF RX1

This function allows to visualize the state of the receiver of band 1.

With **MODE** key (Fig.26) find the text like in (Fig.27).

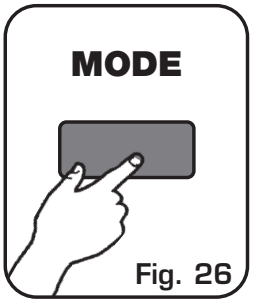


Fig. 26

Reception OK

Fig. 27

Reception OK no DMX signal

Fig. 27

Radio channel research

Fig. 27

5.3 LED 1 FUNCTION (RED)

Slow blinking: Receiver OK, no DMX 512 signal.
Fast blinking: Channel research.
Switched on : Receiver OK, DMX 512 signal OK.

5.4 STATE OF RX2

This function allows to visualize the state of the receiver of band 2.

With **MODE** key (Fig.28) find the text like in (Fig.29).

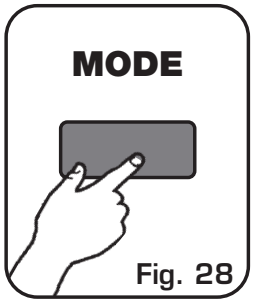


Fig. 28

Reception OK

Fig. 29

Reception OK no DMX signal

Fig. 29

Radio channel research

Fig. 29

5.5 LED 2 FUNCTION (GREEN)

Slow blinking: Receiver OK, no DMX 512 signal.
Fast blinking: Channel research.
Switched on : Receiver OK, DMX 512 signal OK.

5.6 PAIRING WITH TRANSMITTER (GET PAIRING)

This function allows to pair the Wi DMX set as receiver with a Wi DMX set as trasmitter, to avoid interactions with other apparatuses of the same type. For this operation you need a DMX signal cable connected between the two apparatuses.

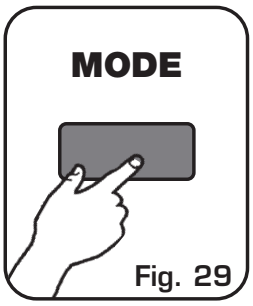


Fig. 29

Remove any cable on the DMX connectors and connect the DMX signal cable between the two apparatuses.

On the RECEIVER Wi DMX , with **MODE** key (Fig.29) find the text like in (Fig.30).

On the TRANSMITTER Wi DMX , with **MODE** key (Fig.29) find the text like in (Fig.31).

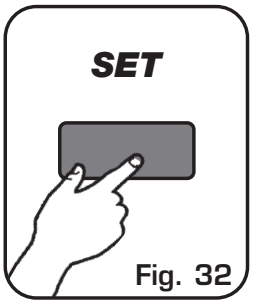


Fig. 32

On the RECEIVER Wi DMX hold ***SET*** key (Fig.32) until a writing appears like in (Fig.33).

On the TRANSMITTER Wi DMX hold ***SET*** key (Fig.32) until a writing appears like in (Fig.34).

RECEIVER Wi DMX

Fig. 30

Fig. 33

TRANSMITTER Wi DMX

Fig. 31

Fig. 34

After a few seconds a result of the operation is given; if like in (Fig.35) on both apparatuses, pairing succeeded; else the message of (Fig.36) appears.

Fig. 35

Fig. 36

5.7 PAIRING WITH TRANSMITTER (GET PAIRING) USING WI D PEN

This function allows to pair the Wi DMX set as receiver with a Wi DMX set as trasmitter.
For this operation you need a Wi D PEN already paired with the trasmitter Wi DMX (v.par.4.6)

With **MODE** key (Fig.37) find the text like in (Fig.38).

Connect **Wi D Pen** to the DMX signal input
(without connecting **Wi D Pen** ac-adapter).

Hold ***SET*** key (Fig.39) until a writing appears like in (Fig.40).

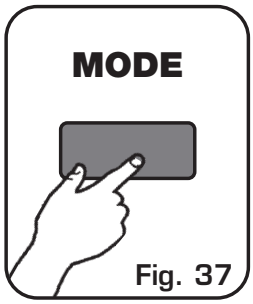


Fig. 37

Fig. 38

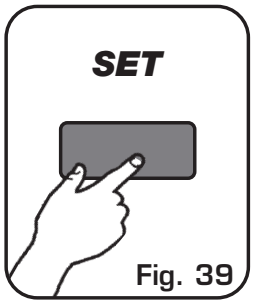


Fig. 39

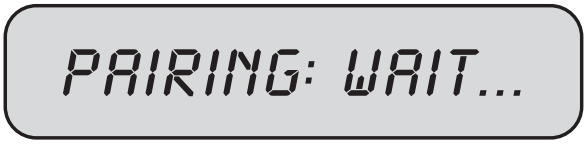


Fig. 40

After a few seconds a result of the operation is given; if like in (Fig.41) pairing succeeded; else the message of (Fig.42) appears.

Fig. 41

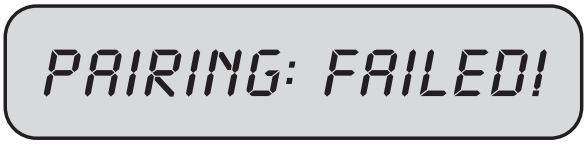


Fig. 42

6.1 EXTENDER MODE

This operation mode allows you to receive the DMX 512 signal coming from a Wi DMX transmitter, provide it to the connected projectors and re-transmit it to other receiver apparatuses.

The connection must be like in (Fig.43).
In this mode switch terminator to **ON**

Wi DMX receives the Radio signal and shows the number of channels generated (Fig.44); in absence of Radio or DMX signal the display appears like in (Fig.45).

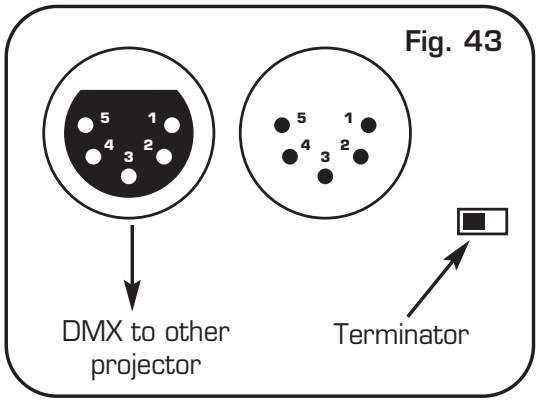


Fig. 43

Fig. 44

Fig. 45

6.2 SETTING OF TX1

This function allows to set the range of DMX channels to transmit on band 1 (RED LED) to the paired receivers and the RADIO channel to use, among the ten available (from OR to 9R).

With **MODE** key (Fig.46) find the text like in (Fig.47).

To change the setting hold ***SET*** key (Fig.48) until the value starts blinking (Fig.49).

Use ***UP/DOWN*** keys to change the value (Fig.50).

When finished, confirm with ***SET*** key (Fig.48

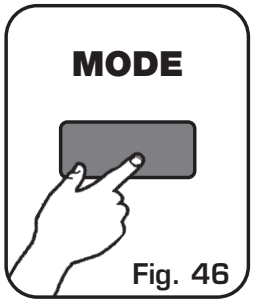


Fig. 46

Fig. 47

Fig. 49

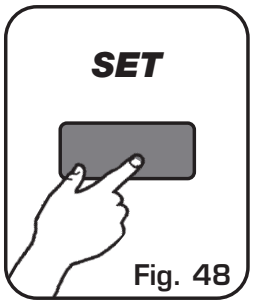


Fig. 48

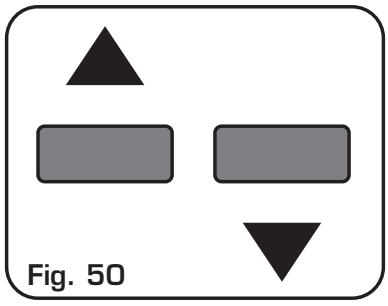


Fig. 50

It is advisable not to use the same Radio channel found by the receiver.

N.B.: If you get problem of transmission, try changing the Radio channel.

When Radio channel is modified, receivers start searching until they find the new Radio channel.

6.3 LED 1 FUNCTION

Slow blinking: Transmitter OK, no DMX 512 signal.
Switched on : Transmitter OK, DMX 512 signal OK.

N.B.: If a Radio channel between OR and 9R is used, the led is Red.
If a Radio channel between OG and 9G is used, the led is Green.

6.4 SETTING OF RX2

This function allows to visualize the state of the receiver and to change the receiver band.

With **MODE** key (Fig.51) find the text like in (Fig.52).

To change the receiver band hold ***SET*** key (Fig.53) until the value changes (Fig.54).

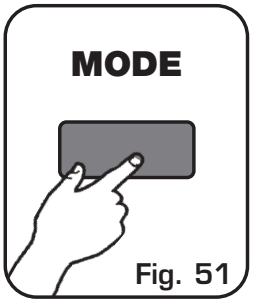


Fig. 51

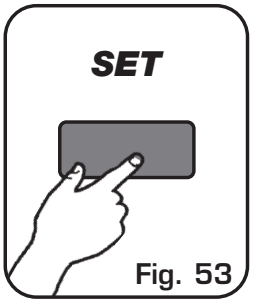


Fig. 53

Reception OK

Fig. 52

Reception OK
no DMX signal

Fig. 52

Radio channel research

Fig. 52

Radio band changed

Fig. 54

6.5 LED 2 FUNCTION

Slow blinking: Receiver OK, no DMX 512 signal.
Fast blinking: Channel research.
Switched on : Receiver OK, DMX 512 signal OK.

N.B.: If a Radio channel between OR and 9R is used, the led is Red.
If a Radio channel between OG and 9G is used, the led is Green.

6.6 RECEIVER PAIRING

This function allows to pair the receiver Wi D Pen to the TX1 of the Extender Wi DMX.
Follow the instructions at (v.par.4.6)

6.7 PAIRING WITH TRANSMITTER (GET PAIRING)

This function allows to pair the RX2 of the Extender Wi DMX with a Wi DMX set as trasmitter.
Follow the instructions at (v.par.5.6)

6.8 PAIRING WITH TRANSMITTER (GET PAIRING) USING WI D PEN

This function allows to pair the RX2 of the Extender Wi DMX with a Wi DMX set as trasmitter using Wi D PEN.
Follow the instructions at (v.par.5.7)

Wi DMX TECHNICAL FEATURES

Technical features: Signal

Output signal: **DMX512/ 1990**
Input signal: **DMX512/ 1990**
Output connector: **3/5-pin cannon connector female**
Input connector: **3/5-pin cannon connector male**
Max number of projectors connected to the DMX output: **32**

Technical features: Radio

Frequency range: **2,4 GHz - 2,483 GHz (ISM)**
Number of channels: **20**
Transmitter range: **1000 meters (3280 ft) open air**

Climatic condition for the use

Humidity: **35% ÷ 80%**
Temperature: **5 ÷ 50 °C**

Power supply

Voltage/current: **9 Vdc / 550 mA**

Dimensions and weight

Dimension (W x L x H) / Weight: **113 x 224 x 45 mm / 0,9 Kg.**

CE 0122 !

FC ***FCC ID: R8KUGWR2USXXXX***
Canadian Cert No IC: 5125A-UGWR2US

CODEM MUSIC S.r.l. *- Via G.Pierini, 13 - 61100 PESARO - ITALY*
Tel. +39 0721 204357 - Fax +39 0721 203554
http://www.codemmusic.com - E-mail: info@codemmusic.com

GB All rights reserved. No parts of this document can be copied, photocopied or reproduced without the prior written permission of the **CODEM MUSIC s.r.l.**
No responibility is taken for possible inaccuracies or mistakes.
The **CODEM MUSIC s.r.l.** reserves the right to make any alterations or aesthetics changes of this product that seem necessary at any time and for whatever reason.
The **CODEM MUSIC s.r.l.** takes no responsibility for the use or for the application of this product.