

---

*Next*

**SLK 12**  
**System Light Kit 12ch - 12A**



**GB** **USER'S MANUAL**

---



***We congratulate you on your purchase of SLK 12.***

***Before you proceed 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.***

### ***Accessories issued with the equipment and relative documentation***

Verify the contents of the packing.

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

- **DDP 1212**
- **VMIX 2000**
- **20 mt of cable DMX with XLR 5 Pin male/female connector**
- **1 Dmx Terminator**
- **1 Power supply for mixer mod. VM2K**
- **Instruction manual.**
- **Guarantee**

### ***Read the following warnings before beginning installation.***

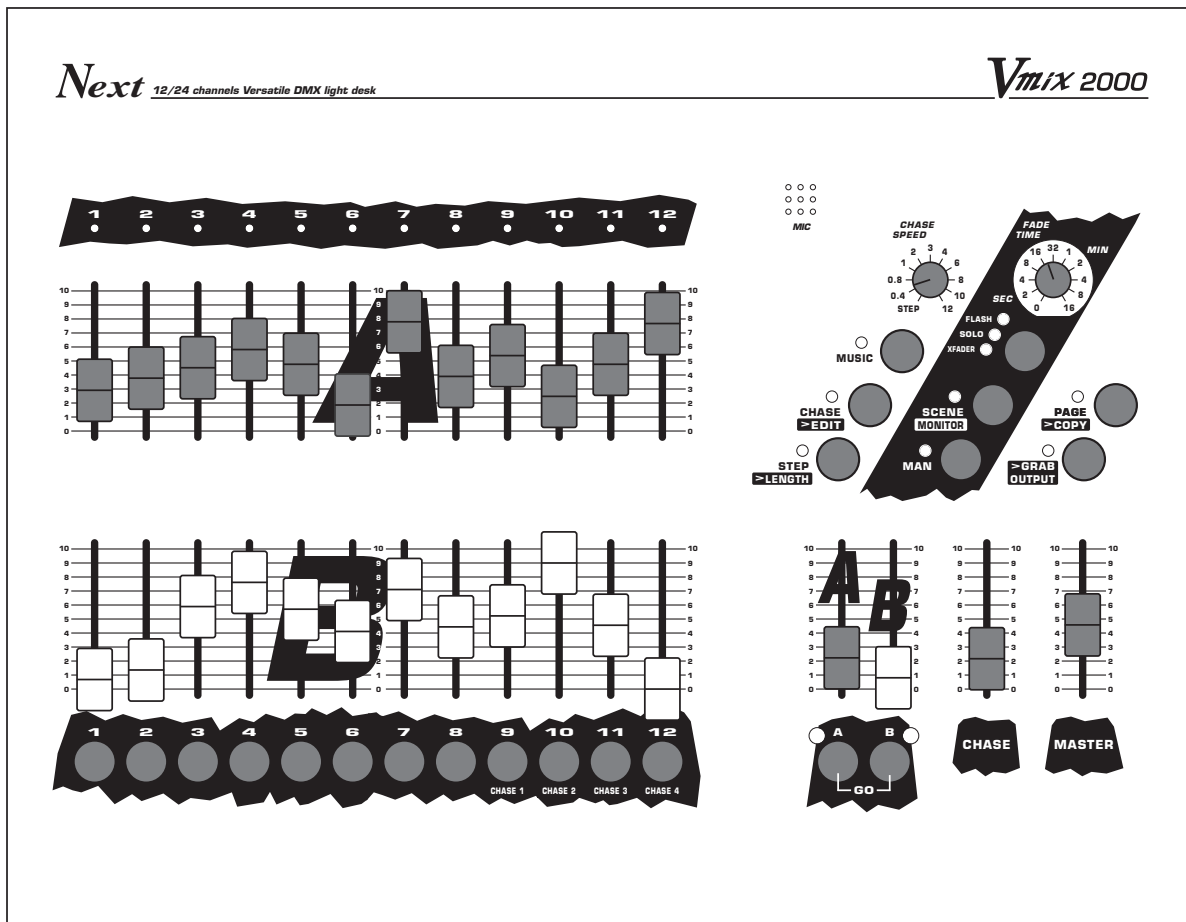
- This unit is not intended for home use.
- Read this manual thoroughly and observe the following precautions before working with the dimmer.
- Take care not to spill liquids on to the dimmer and do not use it in excessively humid conditions.
- Do not install the dimmer near heat sources or expose it to direct sunlight and do not install in dusty environments without suitable protection.
- Do not obstruct the air intake openings or the cooling fans.
- Do not use the dimmer unless the mains cable and plug are in perfect condition (replace or repair if necessary).
- Do not use solvents such as acetone or alcohol to clean the dimmer 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 dimmer yourself.

**Attention! The unit must be grounded. If this rule is not followed, the guarantee will automatically be considered annulled.**



# Vmix 2000

12/24 channels Versatile DMX light desk





## INDEX

*We congratulate you on your purchase of V-MIX 2000.*

*Before you proceed 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.*

### ***Sets of the equipment***

1.1 Description of the front panel

### ***Description of the rear panel and installation***

2.1 Description of the rear panel

2.2 DMX 512 output connection

2.3 Input connection for power supply

2.4 Connection of the AC adapter to the electric system

### ***Use of the equipment - modes of operation***

3.1 24 Channels ***SINGLE PRESET ( WIDE )*** Operation

3.2 12 Channels ***DOUBLE PRESET*** Operation

3.3 ***MAN*** Operation

3.4 "***GO***" Function

4.1 ***GRAB*** Function

4.2 ***REGISTER OF MEMORY (SCENE) mode***

4.3 ***FLASH*** Operation

4.4 ***SOLO*** Operation

4.5 ***XFADER*** Operation

4.6 Modification of the ***REGISTER OF MEMORY***

4.7 ***DIRECT*** Function

4.8 ***PAGE*** Function

4.9 ***PAGE COPY*** Function

5.1 ***CHASE*** Section

5.2 ***CHASE*** Function

5.3 ***LENGTH*** Function

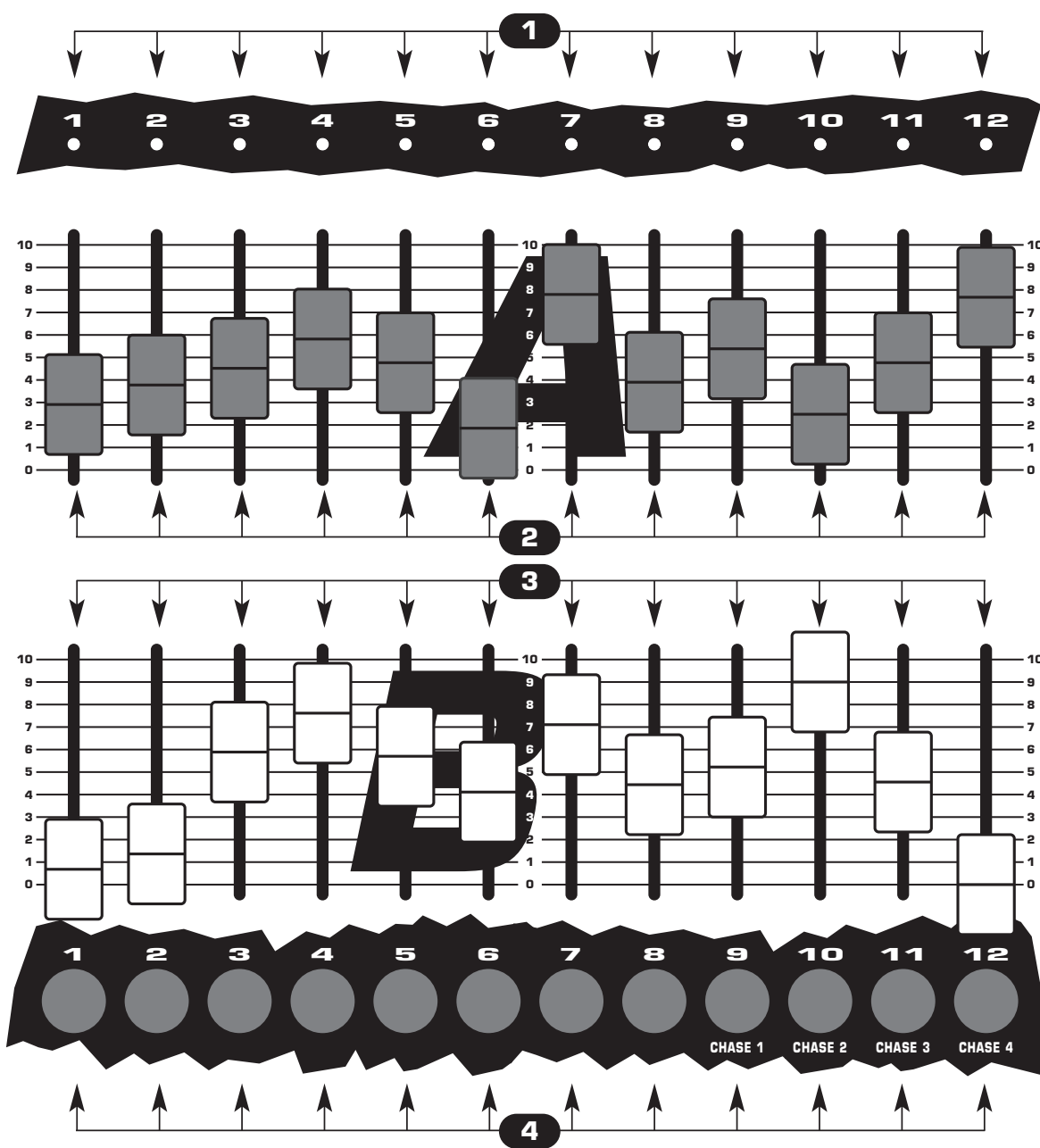
5.4 ***EDIT CHASE*** Function

5.5 ***MUSIC*** Function

6.1 ***Example of working***

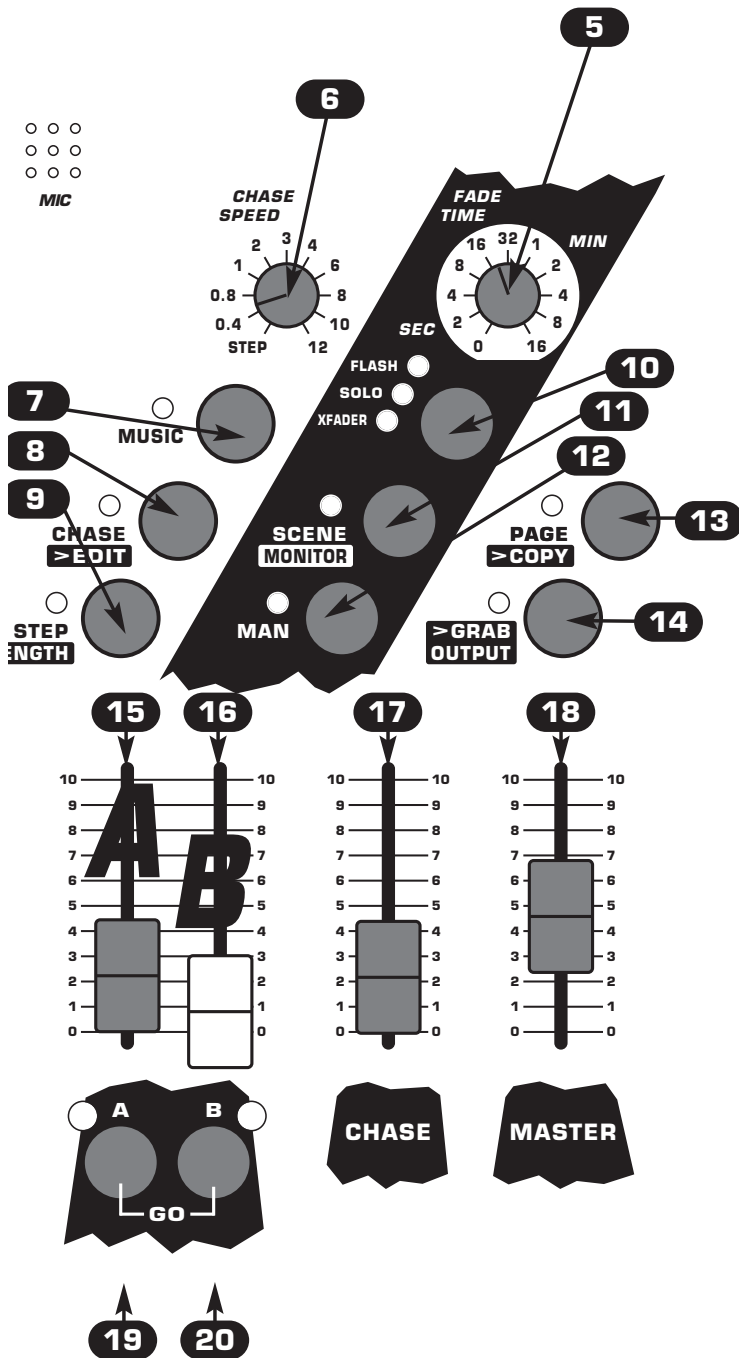
6.2 ***Copy of the registers***

# Next 12/24 channels Versatile DMX light desk





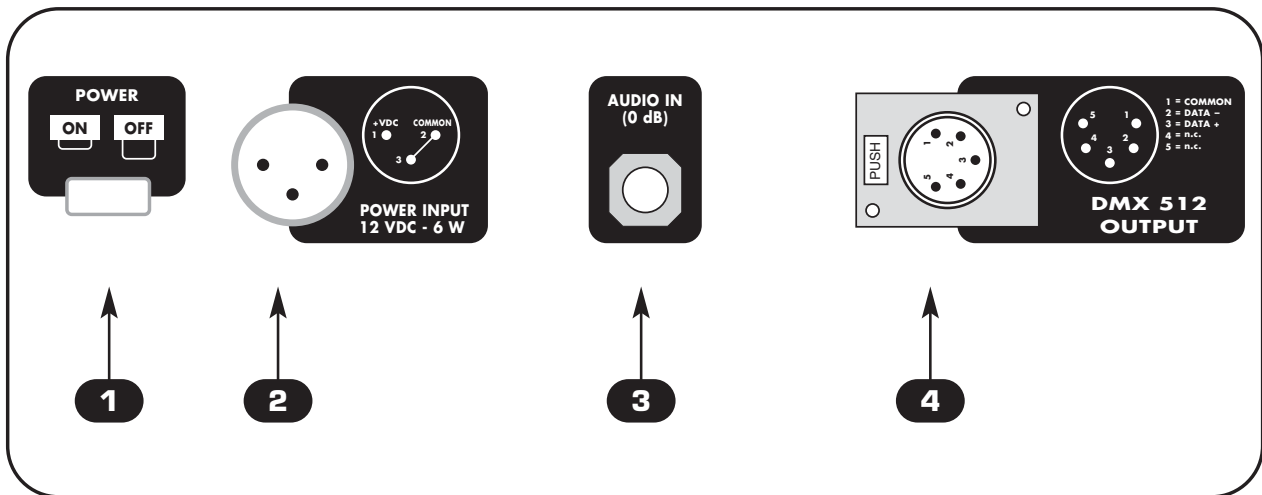
# Vmix 2000



- 1** OUTPUTS MONITOR
- 2** 12 UP FADERS "A"
- 3** 12 DOWN FADERS "B"
- 4** 12 FLASH KEYS
- 5** FADE TIME KNOB
- 6** SPEED KNOB
- 7** MUSIC KEY
- 8** CHASE/EDIT KEY
- 9** STEP/LENGTH KEY
- 10** SCENE MODE FLASH/SOLO/XFADER KEY
- 11** SCENE/MONITOR KEY
- 12** MAN KEY
- 13** PAGE/COPY KEY
- 14** GRAB KEY
- 15** PRESET A FADER
- 16** PRESET B FADER
- 17** CHASE FADER
- 18** MASTER FADER
- 19** PRESET A KEY
- 20** PRESET B KEY

## 2.1 Description of the rear panel and installation

GB



- 1** Power key
- 2** 12 Vdc power INPUT with a 3-pin cannon connector.
- 3** 0 dB audio signal INPUT with a mono/stereo jack connector.
- 4** Standard DMX 512 signal OUTPUT with a 5-pin cannon connector.

## 2.2 DMX 512 OUTPUT CONNECTION

Make sure you are using a shielded twisted cables suitable for the transmission of the DMX 512 signal with connectors of good quality and connection as shown on the side of the connector.

Plug the 5-pin cannon connector coming from the dimmer completely in the DMX 512 output **4**

Use the “push” safety hook to disconnect it and than extract it gently.

**ATTENTION:** the shielded part of the cable must never be connected to the ground of the electrical system as this could cause faults during the working of the controller.

THE DMX CHANNEL OUT ARE:  
N° 1/12 DOUBLE PRESET MODE  
N° 1/24 SINGLE PRESET MODE (WIDE)

### 2.3 Input connection for power supply

GB

Plug the 3-pin cannon connector of the AC adapter completely in the power input **2**

Use the “push” safety hook to disconnect it and extract it gently.

**ATTENTION:** do not use AC adapter different from the one supplied, it could cause serious damages at the internal circuitation.

Do not connect the 3-pin cannon connector in other appliances, it has been studied to be used only in this controller.

### 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 AC ADAPTER PLATE.**

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

Press **Power key 1** to verify the correct installation.

If pressing the **Power key** no one led light up, please check if there is tension 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.

The Vmix factory default mode is 12 channels DOUBLE PRESET operation.

### **3.1 Activation of 24 Channel single preset mode (WIDE)**

This procedure allows to go in 24 channels single preset operation.

- Turn off the V-MIX through **Power** key placed on the rear.
- Hold pressed the **MAN** key (Fig.1) and Turn on the V-MIX through **Power** key placed on the rear **at the same time**.

Now the Mixer is ready to work in 24 channels SINGLE PRESET operation.

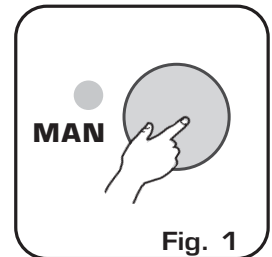


Fig. 1

### **3.2 Activation of 12 Channel double preset**

This procedure allows to go in 12 channels double preset operation.

- Turn off the V-MIX through **Power** key placed on the rear.
- Hold pressed the **SCENE** key (Fig.2) and Turn on the V-MIX through **Power** key placed on the rear **at the same time**.

Now the Mixer is ready to work in 12 channels DOUBLE PRESET operation.

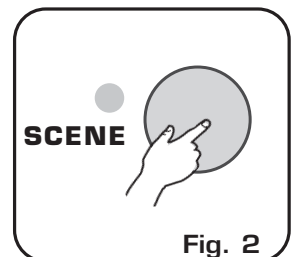
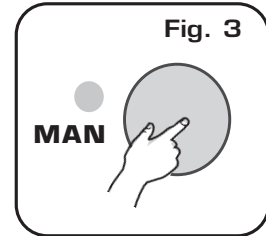


Fig. 2

This function allows to modify manually each output single channel

Pressing **MAN** key the **PRESET MANUAL** function is activated (Fig.3)

The activation of the function has signalled from the red light to side of the same key.



#### **USE OF MASTER FADER:**

The **MASTER** fader checks the general level of the output channels.  
Keep the **MASTER** fader to the maximum.

Keep the **PRESET A** fader to the maximum. (100%) and the **PRESET B** fader to the zero value, through the **PRESET A** fader you can control the general level of the preset **A**. The 12 upper fader control the single intensity of the channels of the preset **A**.

Keep the **PRESET A** fader to zero value. and the **PRESET B** fader to the maximum. (100%), through the **PRESET B** fader you can control the general level of the preset **B**. The 12 upper fader control the single intensity of the channels of the preset **B**.

Through the two **A** and **B** **PRESET** faders is possible to mix between them the channels of the preset **A** with those of the preset **B**.

In **WIDE** operation (24 channels) the up faders control the 1/12 channels, and the down faders control the 13/24 channels.

The **PRESET A** fader control the general level of the 24 channels of the **A+B** presets.

The output monitor show one of the two banks (12 channels each one);  
**PRESET A** key = 1/12 channels; **PRESET B** key = 13/24 channels.

#### **USE OF FLASH KEYS:**

The 12 keys that are under down faders keep the output 1/12 channel to the maximum value (100%).

In **WIDE** operation the **FLASH** keys correspond to the output monitor;  
**PRESET A** key = 1/12 channels; **PRESET B** key = 13/24 channels.

When you are using the **PRESET MANUAL** function (**MAN**) you can activate the automatic mixing between the two **A** and **B** presets (**GO** function). For the activation of the function is **essential** that one of the two preset is active in output (100%) while the other is to zero value.

Pressing **at the same time** the two under keys the **PRESET A** and **B** faders (Fig.4) you activate the **GO** function; the level of the active preset at 100% begin to descend to the zero value while the level of the preset don't activate salt to the maximum value. You can set the time of passage between the two presets through the **FADE TIME** knob (Fig.5).

During this passage the **XFADER** light flashes to point out that the **GO** function is active, while the green indicator to the side of the **PRESET A** and **B** keys points out the **DESTINATION** preset, that is what at the end of the passage will be in output at 100%.

In any moment is possible intervene in manual way on the level of the incoming preset and on the level of the closing preset, intercepting through the two **PRESET A** and **B** faders the actual levels.

As soon as intercepted the level of entry or of gone out the automatic function comes disabled and the control becomes manual.

In **WIDE** operation the **GO** function is inactive.

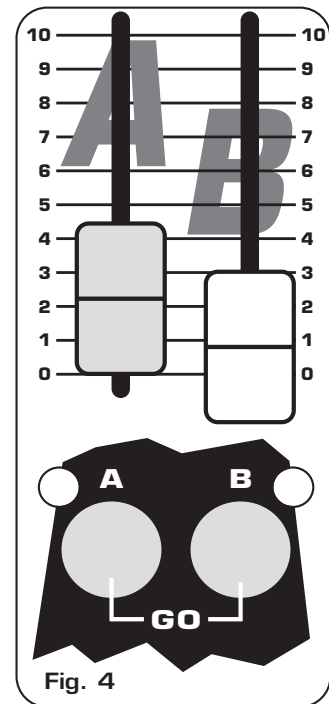


Fig. 4

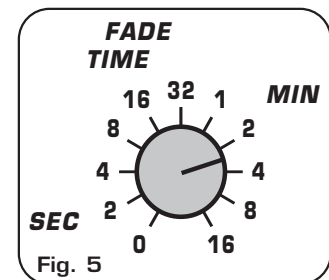


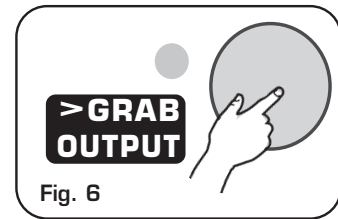
Fig. 5

## 4.1 GRAB function

GB

The **GRAB** function allows to memorize the state of the channels of output (**SCENE**) in one of the 12 registers of memory or the **CHASE** currently active (and his speed of slide).

You also see: **6.1 Example of working** / **6.2 Copy of the registers**



.....  
Memorization of the state of the channels of output (**SCENE**) in a register of memory  
.....

### PRELIMINARY OPERATIONS:

- Keep the **PRESET A**, **PRESET B** and **MASTER** faders to the maximum. (100%)
- Keep the **CHASE** fader to zero value (the light on channels of **CHASE**, if active, won't have memorized in the **SCENE**).
- Create in output the scene that you want to memorize (in any operational formality).
- Now in the outputs monitor and in output you will have a preview of the **SCENE**.
- Press for over 1 second the **GRAB** key (Fig.6). ( the **GRAB** + **SCENE** red lights must flash)
- On the outputs monitor comes automatically selected the register of active memory.
- Select, if different from the active one, the register of memory on which memorize the **SCENE**.
- Press the **GRAB** key (Fig.6) for confirm and conclude the copy, otherwise another key for get out of the copy, with no modification.

.....  
Assignment of the **CHASE** currently active to a register of memory (9,10,11,12 only registers):  
.....

### PRELIMINARY OPERATIONS:

- Keep the **PRESET A** and **PRESET B** faders to zero value.
- Keep the **CHASE** and **MASTER** faders to the maximum. (100%).
- Select through the **CHASE** function (Par. 5.2) the chase to memorize (in any operational formality).
- Regulate the speed desired through the **SPEED** knob (also the speed will come memorized).
- Now in the outputs monitor and in output you will have a preview of the **CHASE**.
- Press for over 1 second the **GRAB** key (Fig.6). ( the **GRAB** + **CHASE** red lights must flash)
- On the outputs monitor comes automatically selected the register of active memory (9/12).
- Select, if different from the active one, the register of memory on which memorize the **CHASE**.
- Press the **GRAB** key (Fig.6) for confirm and conclude the copy, otherwise another key for get out of the copy, with no modification.

THE REGISTERS OF MEMORY ARE NOT  
MEMORIZED, THEY CONTAIN EMPTY SCENES.

FOR ASSIGN A SCENE OR A CHASE TO REGISTERS OF  
MEMORY CONSULT THE PARAGRAPHS:

- 4.1 GRAB FUNCTION
- 6.1 EXAMPLE OF WORKING

#### 4.2 REGISTER OF MEMORY (SCENE) mode

GB

Pressing **SCENE** key the **SCENE** function is activated. (Fig.7)

The activation of the function has signalled from  
the red light to side of the same key.

The 12 lower faders (B) become **REGISTERS** Of **MEMORY**,  
now each of them doesn't control more a single channel,  
but a memory.

Each memory could contain a **SCENE** or a **CHASE** (only for  
9-12 memorys).

SEE **GRAB** FUNCTION (Par 4.1)

The 12 upper faders (A) become faders of **MODIFICATION** and each of them  
checks a single channel of the scene in output.

Keep the **PRESET A** and **B** fader to the maximum. (100%).

The **PRESET A** fader control the general level of the modification done by 12  
upper faders.

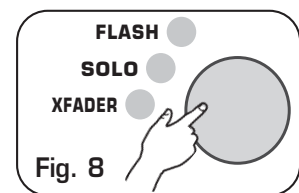
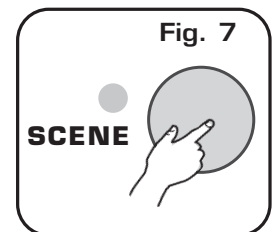
The **PRESET B** fader control the general level of the registers of memory in  
output.

Through the **SCENE MODE** key set above the **SCENE** key are activated the three  
operational ways in sequence:(Fig.8)

**FLASH:** Par 4.3

**SOLO:** Par 4.4

**XFADER:** Par 4.5





**4.3 FLASH operation**

In this operational way the initial position of the 12 faders is zero. Each register of memory (lower faders 1/12 fig.9) command a memory in output; it is possible add more memories simply moving the corresponding fader.

The 12 FLASH keys under the lower faders (fig.9) keep the value of the register of memory 1/12 to the maximum value.

in WIDE operation the outputs monitor visualizes through the PRESET A key the channels 1/12; through the PRESET B key the channels 13/24.

**4.4 SOLO operation**

The SOLO operation is the same to the FLASH operation except that for the function of the FLASH keys.

The 12 FLASH keys under the lower faders (fig.9) keep the value of the register of memory 1/12 to the maximum excluding all the other registers of active memory, therefore you have in output ONLY that memory till that you hold pressed the FLASH key.

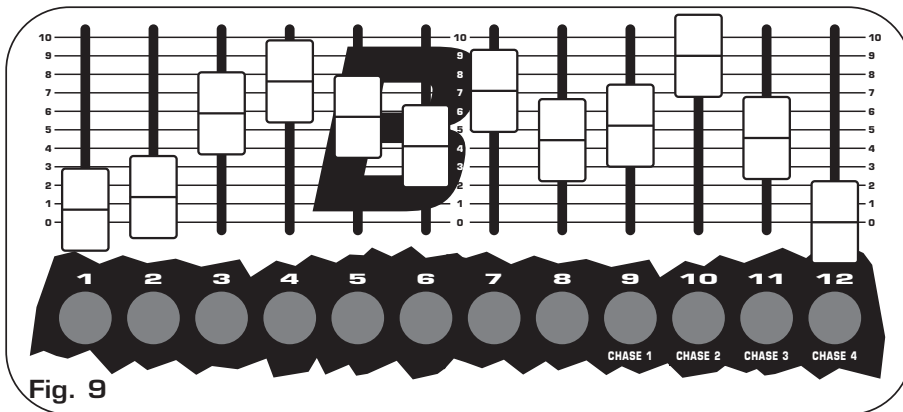


Fig. 9

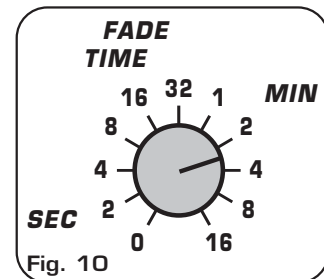


Fig. 10

**4.5 XFADER operation**

In this operational way the initial position of the 12 faders is at the maximum(100%); and only one register of memory at a time is active in output.

For activate one of the 12 registers of memory you must verify that the cursor is to the maximum (100%) and select the correspondent FLASH key (Fig.9) that in this case acts from key of selection of the register in output.

The time of passage between two registers is adjustable from the FADE TIME knob (Fig.10); during the passage the XFADER red light flashes.

If you want to dissolve the register of memory currently active in output, press again the correspondent key of activation.

Pressing the SCENE key, on the outputs monitor you see the number of the register currently active, for return to visualize the levels of output press it again.

In WIDE operation the outputs monitor visualizes through the PRESET A key the channels 1/12; through the PRESET B key the channels 13/24.

IN THE FLASH/SOLO/XFADER MODE Through the 12 upper faders (A) is possible to modify the value of the single channels that they compose the **SCENE** in output.

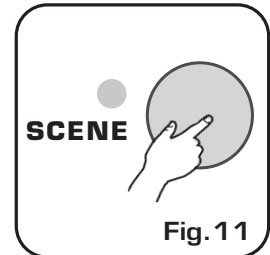


Fig. 11

MAKE SURE TO HAVE ACTIVATED THE SCENE MODE OPERATION (Fig. 11). IT IS NOT POSSIBLE TO MODIFY REGISTERS CONTAINING A CHASE.

Keep the **PRESET A** and **B** fader to the maximum. (100%).

Through the 12 upper faders (A) is possible to modify the value of the single channels that they compose the **SCENE** in output.

With the fader is necessary "hook" (catch mode) the value of output of each channel and keep it to the desired level.

The **PRESET A** fader control the general level of the modification done.

The **PRESET B** fader control the general level of the registers of memory in output.

When you keep the **PRESET A** fader to the zero value the modified channels remain to zero

For restore the values of the **REGISTER OF MEMORY** keep it to zero value.

When you keep **ALL** the **REGISTER OF MEMORY** to the zero value all the modified channels will go to zero level

For save in memory in a permanent way the made modifications you must press for over 1 second the **GRAB** key, automatically the software will select the register of memory in use and will visualize it on the outputs monitor.

To select another **register**, between the twelve available, press one of the **1/12 FLASH** keys.

Press the **GRAB** key again to save the modifications you done, otherwise another key for get out of the function, with no modification.

The modified scene could be used also without have memorized, the modifications will stay active till that the corresponding fader doesn't come kept to zero value.

In **WIDE** operation the outputs monitor and the faders of modification are relative to the channels 1/12 through the **PRESET A** key, while they will be relative to the channels 13/ 24 through the **PRESET B** key.

## 4.7 DIRECT function

The **DIRECT** function allows to select 12/24 channels with manual control

The **DIRECT** function is activated pressing for two second the **MUSIC** key. (Fig. 11/B)

The activation of the function has signalled from the flashes of the green light to side of the same key.

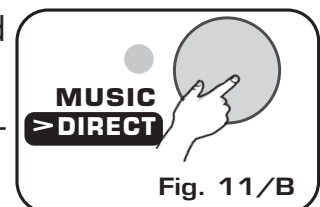


Fig. 11/B

When the **DIRECT** function is activated, on the outputs monitor you see the channels with manual control currently active; for select a different one, between the twelve available, press one of the **1/12 FLASH** keys.

In **WIDE** operation the outputs monitor and the faders of manual control are relative to the channels 1/12 through the **PRESET A** key, while they will be relative to the channels 13/ 24 through the **PRESET B** key.

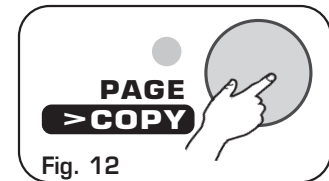
#### 4.8 PAGE function

GB

This function allows to select the page of active memory between the 12 available

Pressing **PAGE** key the **PAGE** function is activated. (Fig.12)

The activation of the function has signalled from the red light to side of the same key.



On the outputs monitor you see the page currently active; for select a different one, between the twelve available, press one of the 1/12 **FLASH** keys.

Press another key for get out of the copy, with no modification.

THE V-MIX 2000 CONTAINS 12 REGISTERS OF MEMORY FOR EACH PAGE .  
THE PAGES OF MEMORY ARE 12.  
IN TOTAL IT IS POSSIBLE HAVE 144 REGISTERS OF AVAILABLE MEMORY.

#### NOTE:

THE REGISTERS OF MEMORY CURRENTLY ACTIVE IN OUTPUT (the registers in the SCENE operation with the faders different from zero) ALWAYS MAINTAIN PRIMARY PAGE.

ONLY THE REGISTERS THAT COME KEPT TO ZERO VALUE ARE ADJOURNED WITH THE NEW PAGE OF MEMORY .

#### 4.9 PAGE COPY function

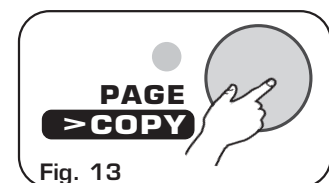
This function allows to copy a whole page of memory. The Registers of memory 1-12 comes copied in an other page.

USE THIS FUNCTION WITH CAUTION!!.

THE PRECEDING CONTENT OF THE PAGE OF MEMORY OF DESTINATION IS CANCELED AND THE DATA COME LOST

The **PAGE COPY** function is activated pressing for two second the **PAGE** key. (Fig.13)

The activation of the function has signalled from the red light to side of the same key.



On the outputs monitor you see the page currently active; for copy it in an other, between the twelve available, press one of the 1/12 **FLASH** keys.

Press another key for get out of the copy, with no modification.

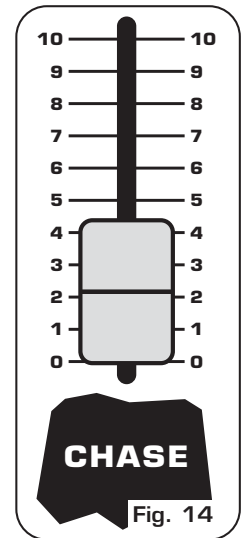
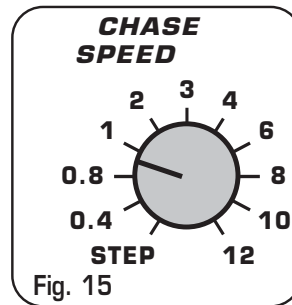
## 5.1 CHASE SECTION

GB

A CHASE is a play of lights, he is made of a sequence of steps (from 1 to 12 max).

The CHASE fader (Fig.14) checks the level of output of the CHASE currently active; keep the CHASE fader to the maximum (100%)

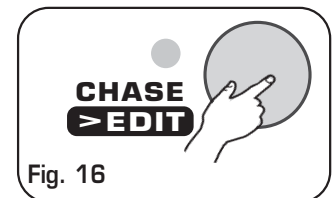
Through the SPEED knob (Fig.15) you can regulate the speed of the currently active CHASE (the time of passage between the steps of the same chase).



## 5.2 CHASE function

The CHASE function allows to select the CHASE active.

The CHASE fader (Fig.14) checks the level of output of the CHASE currently active; keep the CHASE fader to the maximum



Through the SPEED knob (Fig.15) you can regulate the speed of the currently active CHASE (the time of passage between the steps of the same chase).

Pressing the CHASE key, on the outputs monitor you see the CHASE currently active; for select a different one, between the twelve available, press one of the 1/12 FLASH keys.

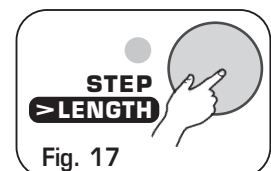
Press another key for get out of the copy, with no modification.

## 5.3 LENGTH function

The LENGTH function allows to select the last step of the CHASE currently active.

The LENGTH function is activated pressing for two second the STEP key. (Fig.17)

The activation of the function has signalled from the red light to side of the same key.



Pressing the LENGTH key, on the outputs monitor you see the last step of the CHASE currently active; for select a different one, between the twelve available, press one of the 1/12 FLASH keys.

Press another key for get out of the copy, with no modification.

Each CHASE is a whole of steps (from 1 to 12 max) in sequence, when arrive to the last step, it restart from the first. For motives of synchronism between the last step and the first is at times necessary that the last is different from 12.

**5.4 EDIT CASE function**

The **EDIT CHASE** function allows to modify the single steps of the **CHASE** currently active.

The **EDIT CHASE** function is activated pressing for two second the **CHASE** key. (Fig.18)

The activation of the function has signalled from the red light to side of the same key.



Fig. 18

Through the **SPEED** knob you see, in any moment, the preview of the **CHASE**. Only rotating this knob on the left, on the **STEP** position is possible to modify the step (the **STEP** red light turn on).

Through the 12 upper faders is possible to modify the value of the single channels that they compose the step, through the **FLASH** keys 1/12 turn on/off one of the 12 channels in a rapid way.

For see and to modify the following step press the **STEP** key.

Pressing the **SCENE** key, on the outputs monitor you see the number of the step currently active, for return to visualize the levels of output press it again.

For finish the modification of the steps of the **CHASE**, press the **CHASE** key. To modify the number of steps that they compose the **CHASE** you see **LENGTH** function (par 5.3)

**NOTE. ALL THE MODIFICATIONS TO THE LEVELS WILL COME HOWEVER MEMORIZED.**

In **WIDE** operation the outputs monitor and the faders of modification are relative to the channels 1/12 through the **PRESET A** key, while they will be relative to the channels 13/ 24 through the **PRESET B** key.

**5.5 MUSIC function**

The **MUSIC** function allows to activate the advancement of the steps of the **CHASE** to rhythm of music.

The **MUSIC** function is activated pressing the **MUSIC** key. (Fig.19)

The activation of the function has signalled from the green light to side of the same key.

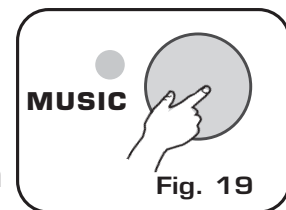


Fig. 19

Through the **SPEED** knob is possible vary the sensibility of the musical sensor. The musical sensor receives the audio signal from the rear audio input or from the built-in microphone. (If to the rear input you connect a jack the built-in microphone is deactivated).

The input music signal is a OdB mono/stereo so it could be taken from sound sources like Mixer, CD, Dat etc.

**IT IS ABSOLUTELY FORBIDDEN TO CONNECT TO THIS INPUT ANY POWER SIGNALS FOR ACOUSTIC SPEAKER COMING FROM AMPLIFIED MIXER OR AMPLIFIER!!**

The V-MIX 2000 thanks to his evolved software simplify notably all the functions of use and programming.

### *EXAMPLE OF CREATION OF A SCENE AND TRANSFER TO A REGISTER OF MEMORY.*

- Keep the **MASTER** fader and **PRESET A/B** to the maximum and the **CHASE** fader to zero.
- Activate the **MAN** operation and create in output the **SCENE** desired through the faders.
- Now in output you have the preview of the **SCENE** to transfer.
- Press for over 1 second the **GRAB** key.
- The **GRAB** function know that you are memorizing a **SCENE** (the **GRAB** and **SCENE** red lights to side of the same keys flashes).
- The **OUTPUT MONITOR** show the number of the register in use.
- Select through the **1/12 FLASH** keys the register of destination of the **SCENE** (is not necessary select it if is the same of that currently in use).
- Press **GRAB** key for memorize the **SCENE** in the selected register.
- Now the selected register contains the **SCENE**; for use the registers go to **SCENE** operation.

### *EXAMPLE OF MODIFICATION TO A REGISTER OF MEMORY IN SCENE MODE.*

- Keep the **MASTER** fader to the maximum. and the **CHASE** fader to zero.
  - Keep the **PRESET A** and **B** fader to the maximum. (**100%**).
  - The **PRESET A** fader control the general level of the modification done by **12 upper faders**.
  - The **PRESET B** fader control the general level of the registers of memory in output.
  - Activate the **SCENE** mode and recall in output the desired **SCENE (one or more)**.
- In the **XFADER** operation only one scene at a time is active in output through the **FLASH** keys (**keep the FADE TIME knob to zero otherwise wait the flash of the XFADER red light stop**).
- To modify each single channel through the 12 upper faders; "hook" (catch mode) the value of output of each channel and keep it to the desired value .
  - Now you have the preview of the **SCENE** to transfer.
  - Press for over 1 second the **GRAB** key.
  - The **GRAB** function know that you are modifying a **SCENE** (the **GRAB** and **SCENE** red lights to side of the same keys flashes).
  - Press **GRAB** key for memorize the **SCENE** modified.

### *EXAMPLE OF TRANSFER OF ACTIVE CHASE IN A REGISTER OF MEMORY; (ONLY REGISTER 9 - 10 - 11 - 12).*

- Keep the **MASTER** and **CHASE** fader to the maximum **PRESET A** and **PRESET B** to zero.
- Activate the **MAN** operation and select the chase desired through the **CHASE** function.
- Regulate the desired speed of **CHASE** through **SPEED** knob.
- Now you have the preview of the **CHASE** to transfer.
- Press for over 1 second the **GRAB** key.
- The **GRAB** function know that you are memorizing a **CHASE** (the **GRAB** and **CHASE** red lights to side of the same keys flashes).
- The **OUTPUT MONITOR** show the number of the register in use.
- Select through the **9/12 FLASH** keys the register of destination of the **CHASE** (is not necessary select it if is the same of that currently in use).
- Press **GRAB** key for memorize the **CHASE** in the selected register.
- Now the selected register contains the **CHASE**; for use the registers go to **SCENE** operation



### *COPY OF THE SCENE CONTAINED IN A REGISTER IN AN OTHER REGISTER*

- Keep the **MASTER** and **PRESET A** faders to the maximum and the **CHASE** fader to zero.
- Activate the **SCENE** mode and recall in output the desired **SCENE** to copy.
- Press for over 1 second the **GRAB** key.
- The **OUTPUT MONITOR** show the number of the register in use.
- Select through the **1/12 FLASH** keys the register where you want to copy the **SCENE**.
- Press **GRAB** key for memorize the copy.
- Now the selected register contains the copy of the **SCENE**.

### *COPY OF THE SCENE CONTAINED IN A REGISTER IN AN OTHER REGISTER OF A PAGE OF MEMORY DIVERGED FROM THAT IN USE.*

- Keep the **MASTER** and **PRESET A** faders to the maximum and the **CHASE** fader to zero.
- Activate the **SCENE** mode and recall in output the desired **SCENE** to copy.
- Select the **PAGE OF MEMORY** of destination of the copy through the **PAGE** Function.
- Press for over 1 second the **GRAB** key.
- The **OUTPUT MONITOR** show the number of the register in use.
- Select through the **1/12 FLASH** keys the register where you want to copy the **SCENE**.
- Press **GRAB** key for memorize the copy.
- Now the selected register contains the copy of the **SCENE**.
- The page currently in use has become that of destination.

### *USE OF THE GRAB FUNCTION*

The GRAB function is of fundamental importance for the programming of the V-MIX 2000; but his use has made extremely simple.

It is main point remember that the GRAB function captures all the levels of output and it transfers them in a register of memory; it allows to memorize the exact present scene in output.

It's indifferent in the way in which you have created that scene.

What comes memorized is exactly what you see on the outputs monitor and on the stage.

**THE LEVELS OF OUTPUT GIVEN BIRTH TO THE CHASE DOESN'T COME MEMORIZED, THEREFORE IT IS ADVISABLE KEEP TO ZERO THE CHASE FADER DURING THE GRAB FUNCTION.**

**Technical features: programming**

Number of channels controlled separately: **12/24 (WIDE)**

Double preset/Single preset **(WIDE)**

Number of register for any page: **12 containing SCENE/CHASE**

Total page of memory: **12**

Total memory's scene: **144**

Number of CHASE in MEMORY: **12 (modifiable)**

Number of STEP for any CHASE: **MAX 12, LEVEL or ON/OFF** types

Total Number of the executable CHASE at the same time : **5**

**Technical features: output signal**

Kind of output signal: **DMX512/ 1990**

Output connector: **5-pin cannon connector**

Max number of dimmer connected to the DMX output: **32**

Number of DMX channels: **12 (24 ch. WIDE mode)**

**Technical features: storage of settings**

Kind of storage / size: **EEPROM / 64 Kbit**

Length of data maintenance without power supply: **> 40 years**

Number of entries cycles: **>10.000.000**

**Climatic condition for the use**

Humidity: **35% ÷ 80%**

Temperature: **5 ÷ 50 °C**

**Power supply**

Voltage/current: **12 Vdc / 240 mA**

**Technical features: audio input**

Source: **Inside through a built-in microphone / outside through a stereo jack**

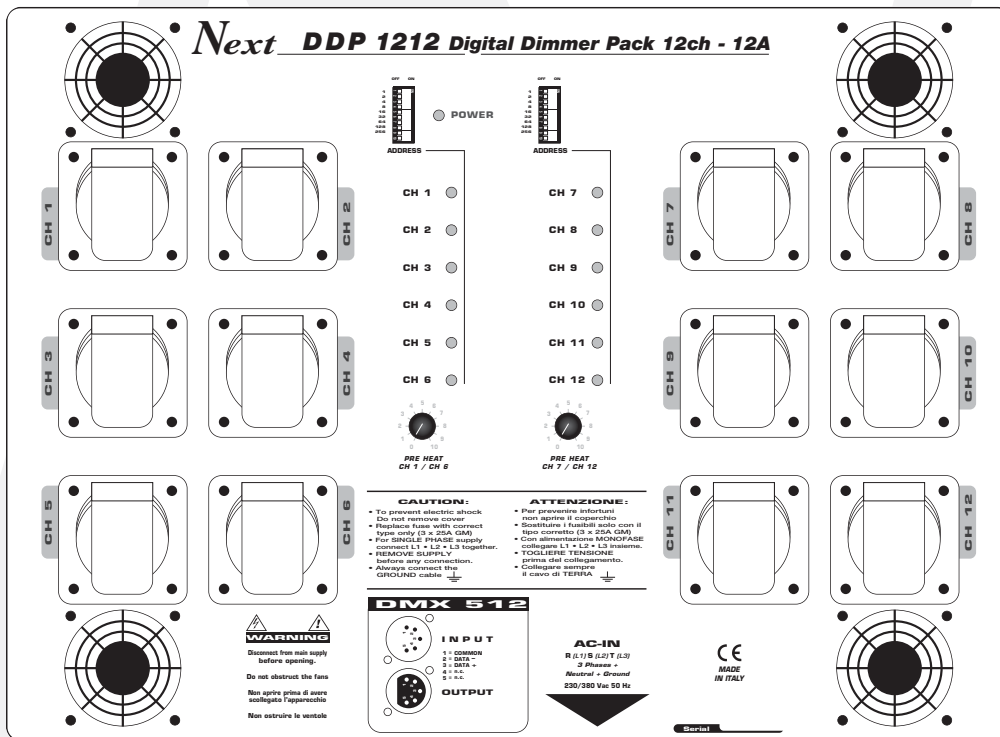
Sensitivity / input impedance: **0 dB (775 mV) / 50 Kohm**

Kind of level adjustment: **Automatic**



# DDP 1212

## Digital Dimmer Pack 12ch - 12A





## INDEX

*We congratulate you on your purchase of **DDP 1212**.*

*Before proceeding of the use of this product it should be necessary to read carefully the following user's manual to install it correctly and to make the most of its potentialities.*

### *Sets of the equipment*

#### 1.1 Description of the front panel

### *Description of the front panel and installation*

#### 2.1 DMX 512 signal cable connection

### *Installation of the equipment*

#### 3.1 Connection the supply cable

#### 3.2 Connection of the output channels

### *Use of the equipment - main functions*

#### 4.1 *Switching on*

#### 4.2 *PRE HEAT* Function

### *Protections*

#### 5.1 Protection against *short-circuiting*

#### 5.2 *Overload* protection

#### 5.3 *Over-Heating* protection

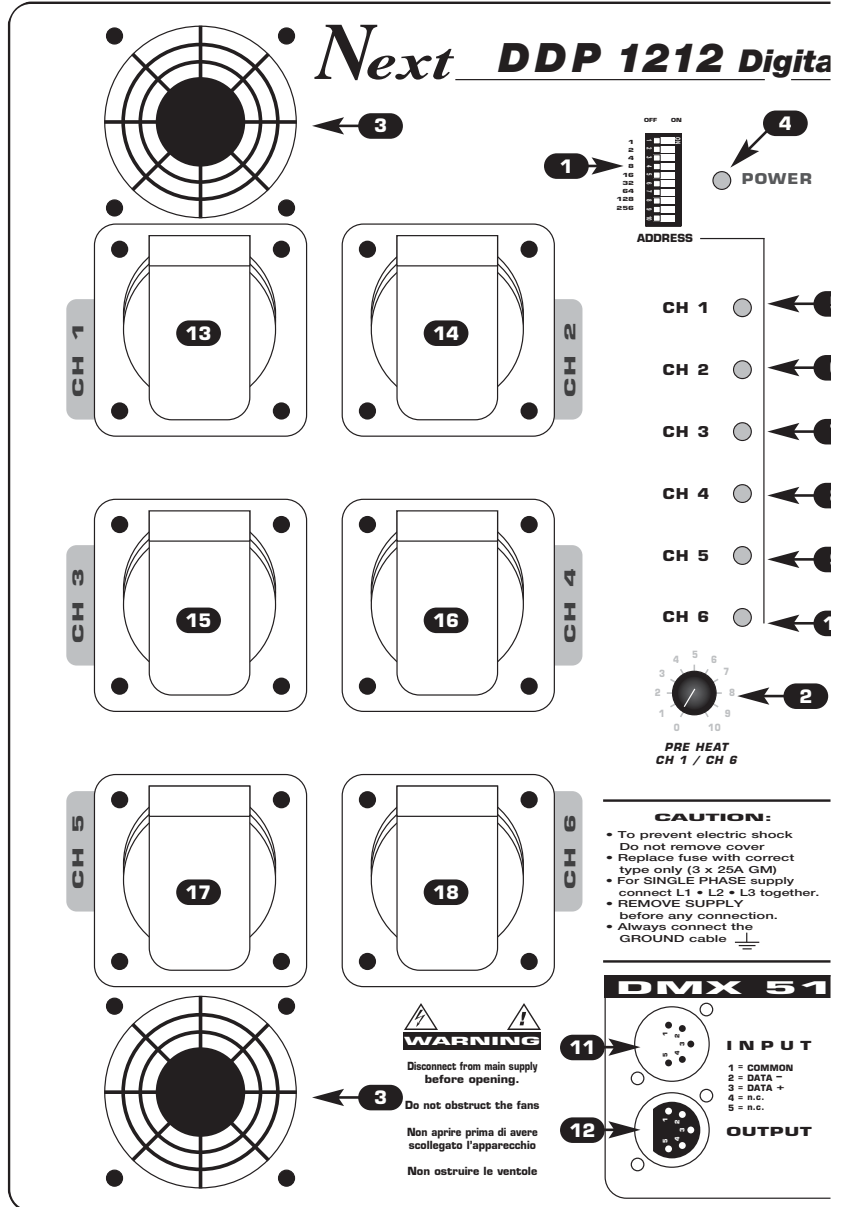
#### 5.4 Protection again *incorrect connections*

#### 5.5 Forced ventilation

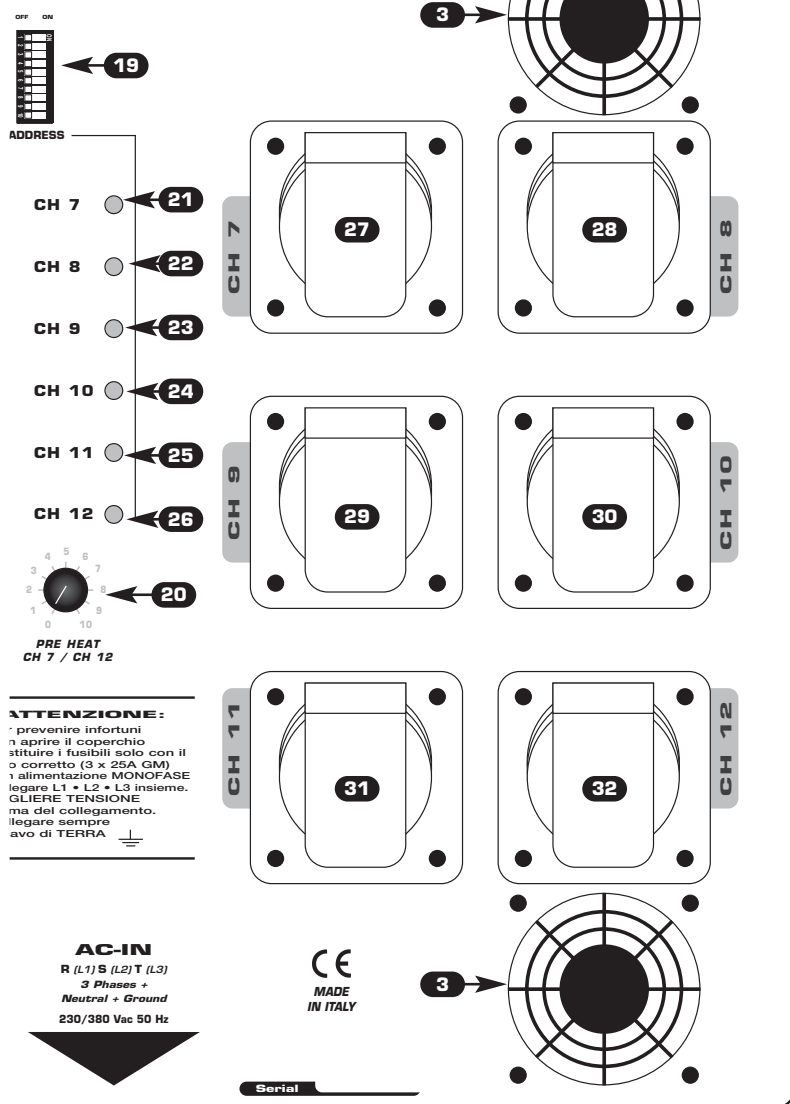
#### 5.6 Power supply

#### 6.1 *Codes of error*

- 1** Dip-switch for DMX 512 address
- 2** Pre Heat CH1 / CH6
- 3** fan for forced ventilation
- 4** Green light Power
- 5** Red light channel 1 phase L1
- 6** Red light channel 2 phase L1
- 7** Red light channel 3 phase L2
- 8** Red light channel 4 phase L2
- 9** Red light channel 5 phase L3
- 10** Red light channel 6 phase L3
- 11** Input DMX 512
- 12** Output DMX 512
- 13** Output channel 1
- 14** Output channel 2
- 15** Output channel 3
- 16** Output channel 4
- 17** Output channel 5
- 18** Output channel 6



## Dimmer Pack 12ch - 12A



- 19** Dip-switch for DMX 512 address
- 20** Pre Heat CH 7 / CH 12
- 21** Red light channel 7 phase L3
- 22** Red light channel 8 phase L3
- 23** Red light channel 9 phase L2
- 24** Red light channel 10 phase L2
- 25** Red light channel 11 phase L1
- 26** Red light channel 12 phase L1
- 27** Output channel 7
- 28** Output channel 8
- 29** Output channel 9
- 30** Output channel 10
- 31** Output channel 11
- 32** Output channel 12

## 2.1 DMX 512 signal cable connection



### Use the included cable

Plug the 5-pin XLR connector coming from the mixer completely in the DMX 512 output  
Use the “push” safety hook to disconnect it and than extract it gently.

**ATTENTION: the shielded part of the cable must never be connected to the ground of the electrical system as this could cause faults during the working of the DIMMER.**

The “start” channel of the DIMMER is channel n°1, for other DMX address you can follow the tabel below.

The dimmer has two Dip-switch already ready for work correctly with the V-mix 2000 like in underlying figure.

<p><b>Dip-switch 1</b> (CH1/CH6) address DMX: 1</p> 	<p><b>Dip-switch 2</b> (CH7/CH12) address DMX: 7</p> 
---	--

### 3.1 Connection the supply cable

Connect the power plug in a 380V 3p + N + T. 50 Hz current socket.

### 3.2 Connection of the output channels

Connect the plug Cee 16 A (not included) as show in Fig 1.

Is possible to connect one or more lamps in one channel, verifying that **TOTAL LOAD OF THE CHANNEL NOT EXCEED 12A (2600 W)**.

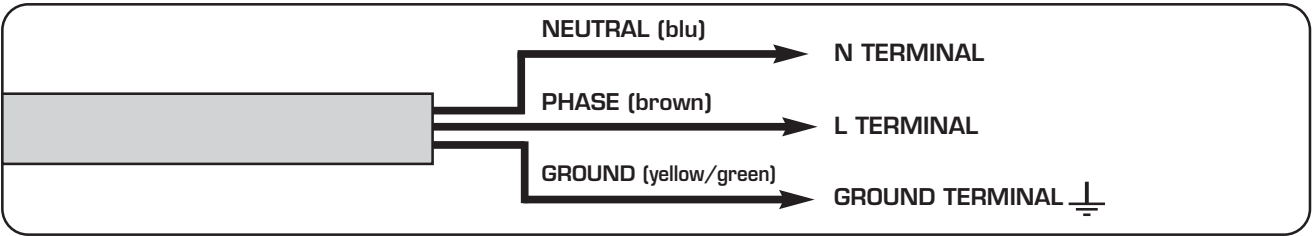
In any case the output is electronically limited to a maximum of **12 A** per channel, no matter what load is applied

**NOTE: IT IS VERY IMPORTANT TO USE A SUITABLE SECTION WIRES TO CONNECT THIS EQUIPMENT TO THE LAMPS: THE SECTION DEPENDS OF THE LENGTH OF THE CABLE AND THE LOAD OF THE CHANNEL.**

**THE NEUTRAL CABLE MUST HAVE A SECTION SUITABLE TO SUPPLY ALL THE CHANNELS CONNECTED TO IT.**

**THE SECTION OF NEUTRAL DEPENDS ALSO OF SUPPLY TYPE (MONO-PHASE OR THREE-PHASES).**

Fig. 1



#### 4.1 Switching on

GB

As soon as it's switching on, **DDP 1212** it begins a test routine to check for any irregularities in the power supply and on the output.

In the case there is a malfunction, a problem in the power supply or no DMX signal , the **DDP 1212** signals the error through the flashes of the red light **CH1 / CH12**.

**FOR A DESCRIPTION MORE DETAILED SEE PAR. 6.1 (CODES OF ERROR)**

#### 4.2 PRE HEAT Function

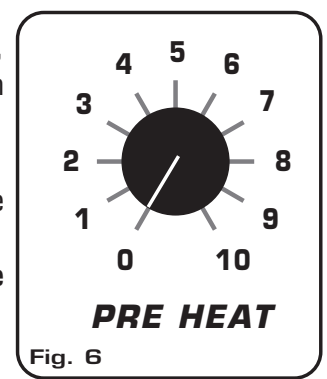
This function allows to activate, for all the channels, the level of preheating.

The function PRE HEAT is always active

When the incandescent lamps are cold, before voltage is applied, the filament has a very low resistance, so at the moment in which the voltage is applied, a very high current will pass through the lamp.

Through the knob **PRE HEAT** Fig.6 it is possible to activate an express value in percentage from 0% to 10%.

**IT IS RECOMMENDED** Leave it to zero for inductive loads (neon, Par 36).





The **DDP 1212** is endowed with efficient protections for avoid that any malfunction could damage it, the protections are:

### **5.1 PROTECTION AGAINST SHORT-CIRCUITING**

When a Short circuit occurs, the **DDP 1212** disables the relative channel immediately, for afterward try to be switched on it again.  
After 3 attempts, if the Short Circuit persists, the **DDP 1212** switches off the channel definitely for protect the installation.

### **5.2 OVERLOAD PROTECTION**

Each output channel of the **DDP 1212** has set for delivery not more than **12 A** continuous, up this threshold the output is electronically limited.

### **5.3 OVER-HEATING PROTECTION.**

The maximum temperature of work is 90° C. and it is measured on the heat sink inside of the **DDP 1212**. When exceeded this temperature, the twelve outputs come disable up to when the temperature doesn't return within normal values.

### **5.4 PROTECTION AGAINST INCORRECT CONNECTIONS**

In the eventuality that the dimmer is wired incorrect, each electronic inside circuit is protected from fuses of appropriate value, the fuses in normal conditions of use don't operate.

### **5.5 FORCED VENTILATION**

Through the use of four low noise fans and speed electronic rotation control, the system of cooling is optimized.  
The fans doesn't compromise the use in the environments where the noise must be least (theaters), the **DDP 1212** varied the speed of rotation and therefore the noise, proportionally of the inside temperature.

### **5.6 - POWER SUPPLY**

Thanks to its advanced design, the power supply of the logical part of the **DDP 1212** is taken from all the three phases.  
Whitout presence of one of the three phases the channels powered with the others two phases will work correctly too.

The evolved software keeps the various sections of the dimmer under constant control, intervening with special protection procedure in the event of faulty operation. The problem has signalled following the codes of the underlying table.

<b>SIGNALING</b>	<b>CAUSE</b>
<i>Flash of all red light CH1/CH12</i>	<i>No signal DMX 512 Address DMX 512 not activate correctly High temperature inside</i>
<i>Flash of red light CH1/CH2/CH11/CH12</i>	<i>No power supply of PHASE L1</i>
<i>Flash of red light CH3/CH4/CH9/CH10</i>	<i>No power supply of PHASE L2</i>
<i>Flash of red light CH5/CH6/CH7/CH8</i>	<i>No power supply of PHASE L3</i>
<i>Flash of red light CH1</i>	<i>Situation of short-circuit on the channel CH1</i>
<i>Flash of red light CH2</i>	<i>Situation of short-circuit on the channel CH2</i>
<i>Flash of red light CH3</i>	<i>Situation of short-circuit on the channel CH3</i>
<i>Flash of red light CH4</i>	<i>Situation of short-circuit on the channel CH4</i>
<i>Flash of red light CH5</i>	<i>Situation of short-circuit on the channel CH5</i>
<i>Flash of red light CH6</i>	<i>Situation of short-circuit on the channel CH6</i>
<i>Flash of red light CH7</i>	<i>Situation of short-circuit on the channel CH7</i>
<i>Flash of red light CH8</i>	<i>Situation of short-circuit on the channel CH8</i>
<i>Flash of red light CH9</i>	<i>Situation of short-circuit on the channel CH9</i>
<i>Flash of red light CH10</i>	<i>Situation of short-circuit on the channel CH10</i>
<i>Flash of red light CH11</i>	<i>Situation of short-circuit on the channel CH11</i>
<i>Flash of red light CH12</i>	<i>Situation of short-circuit on the channel CH12</i>

**N.B.** The sophisticated circuit of protection from the short-circuits intervenes immediately for protect each channel of the Dimmer.

When a Short circuit occurs, the **DDP 1212** disables the relative channel immediately, for afterward try to be switched on it again.

After 3 attempts, if the Short Circuit persists, the **DDP 1212** switches off the channel definitely for protect the installation.

For restore the normal operation, switching off the Dimmer, eliminate the cause and switching on the **DDP 1212**.

If the problem persists contact qualified personnel.



---

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

---



---

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 responsibility 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.

---