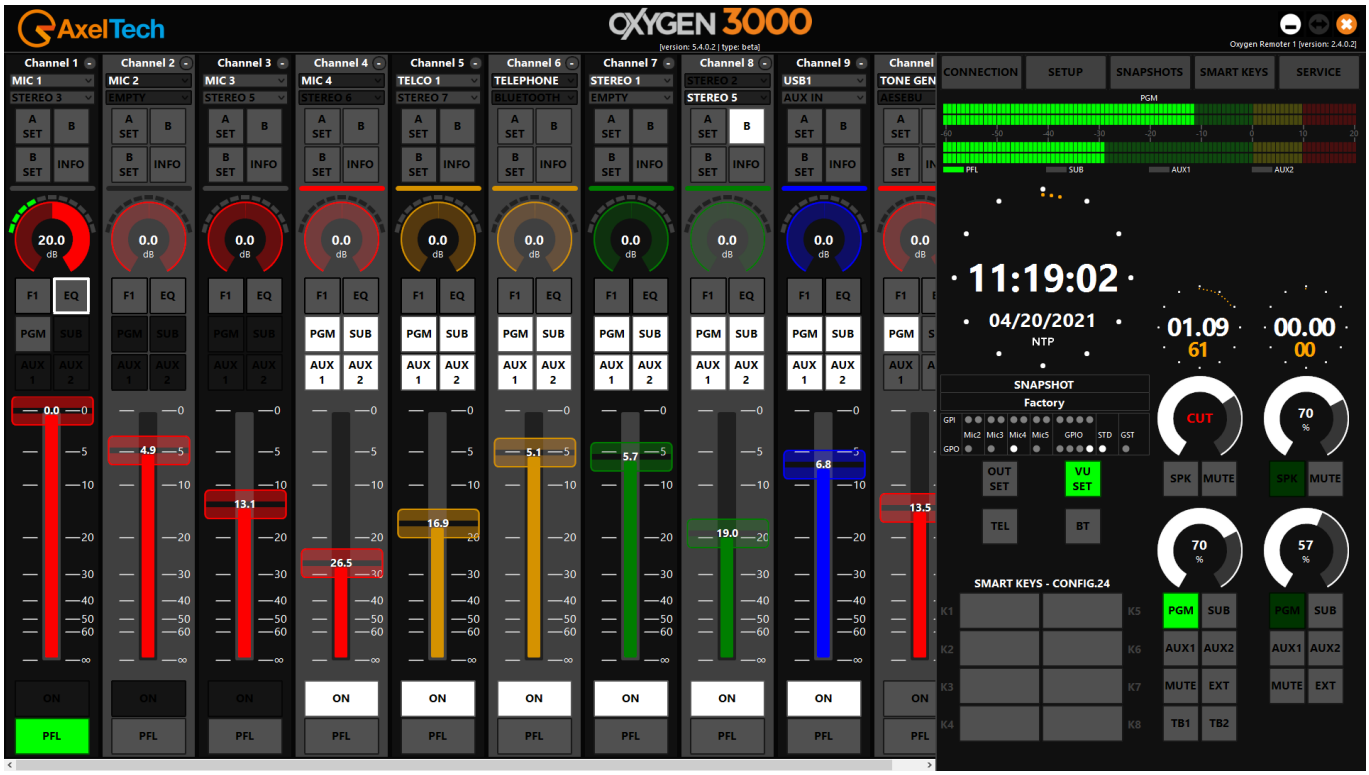
OXYGEN REMOTER

(REV 2.0)



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INTRODUCTION

The **Oxygen Remoter** is a powerful tool that allows you to control all the Oxygen 3000 settings and its whole workflow from a remote PC.
This remote GUI shows you all the Oxygen 3000 surface parameters as you would be directly in front of the desired console.
To allow this remotation you need to:

- Connect a LAN cable to the OXYGEN 3000 LAN Port on the back panel
- As well described by the Oxygen 3000 user manual, set the desired IP Address from the proper console menus:
  If you want to use the first IP ADDRESS set it from:

  MENU / SETTINGS / COMMUNICATION / TCP/IP / ADDRESS 1

  Or

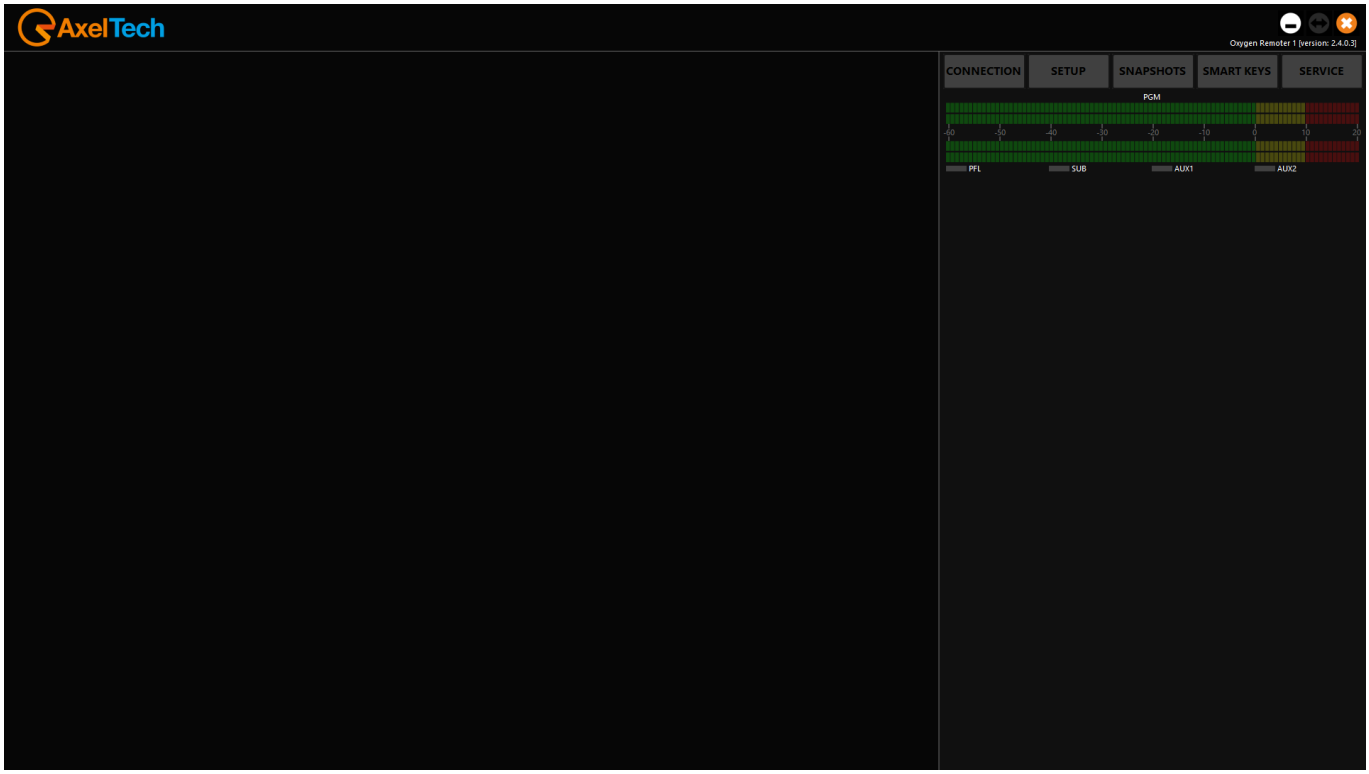
  If you want to use the second IP ADDRESS set it from:

  MENU / SETTINGS / COMMUNICATION / TCP/IP / ADDRESS 2

- Download the Oxygen Remoter setup file from the following URL:

  https://www.axeltechnology.com/Public/OxygenRemoter/OxygenRemoterSetup.exe

- Launch the downloaded **OxygenRemoterSetup.exe** installation file
- Open Oxygen Remoter by clicking on the **OxygenRemoter.exe**, you will see the following window:



Click CONNECTION to open the following config mask for the connection with the remote console.

MIXER: IP Address of the OXYGEN 3000 that you want to reach.

PASSWORD: Each OXYGEN 3000 has **root** as default password. It is also possible to change it from

MAIN/SERVICE/WEB LOGIN (on the console)

SERVICE/WEB LOGIN (on the OXYGEN REMOTER)

If you press next to the password, the password will be visible

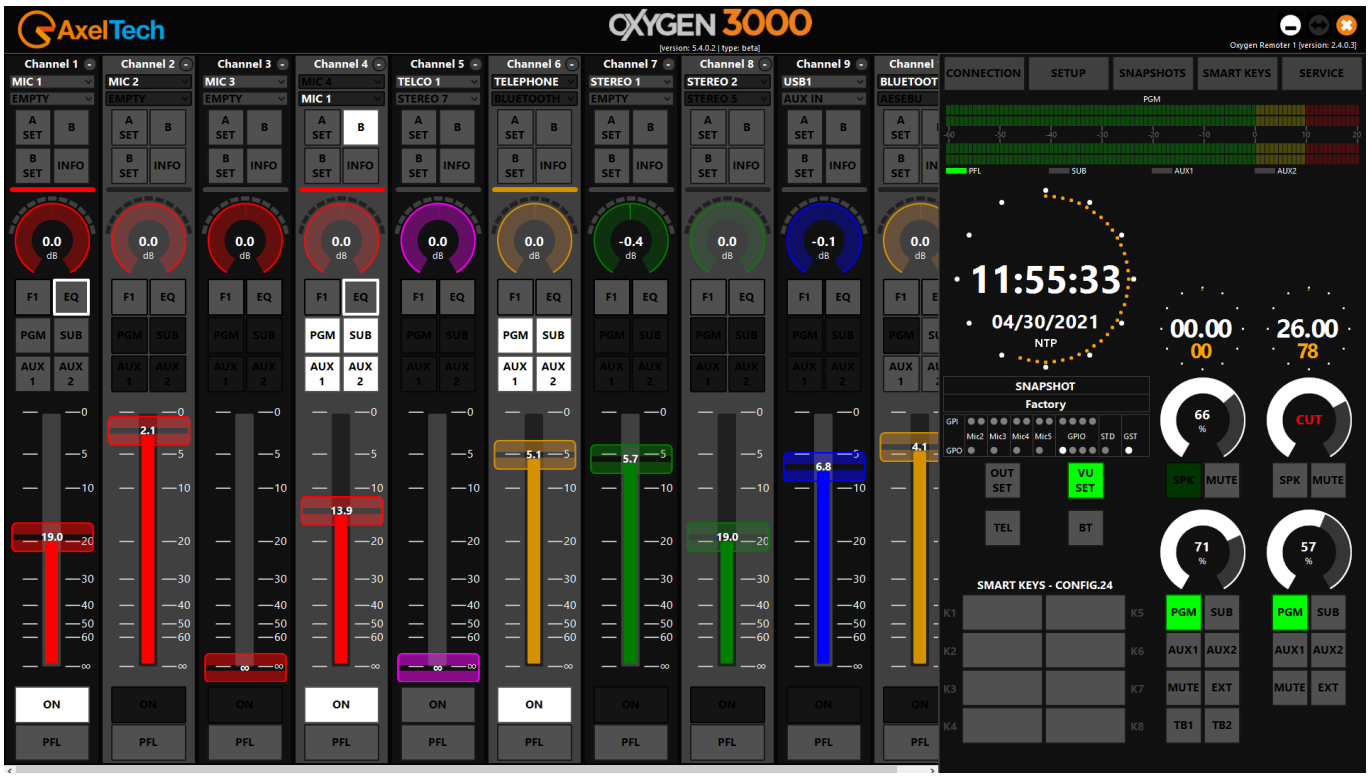
LOCALHOST: if your PC has multiple IP Address, from here you can select the desired one

CONNECT AT STARTUP: you can choose to connect the remoter to the set OXYGEN 3000 automatically at OXYGER REMOTER startup.

Press

to start the **Oxygen Remoter** connection with the console.

If the typed IP Adress is correct you will see a window like the following one:



As you can see you have all the console controls on the monitor of your remote PC.

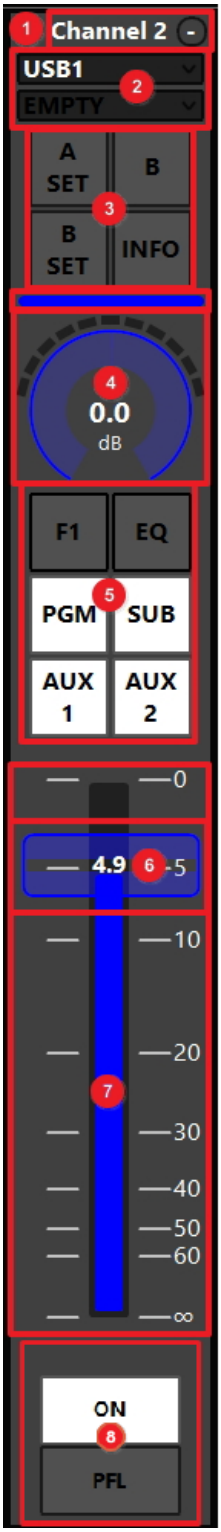
ATTENTION – To reach the console externally from your Network, you need to activate the proper port forwarding rules on the ports **5000** and **26001**. We also suggest you ports **26000**, **93**, **80**. These forwarding settings have to be done by your IT Manager that knows your Network and your Public IP.

Press

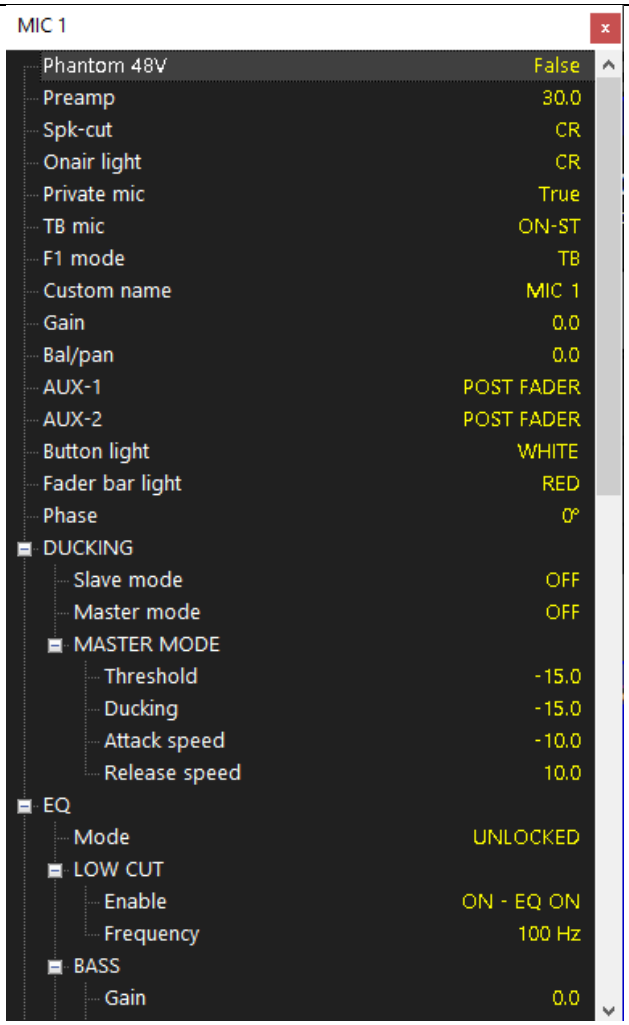
to disconnect from the currently connected console, or before to insert a new console IP Address.

All the Audio parameters are deeply explained into OXYGEN 3000 user manual. Each parameter works exactly as you would be in front of the physical console.

1. CHANNEL

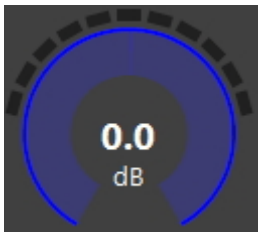

1
Channel 2
USB1
2
EMPTY
A SET
B
3
B SET
INFO
4
0.0
dB
F1
EQ
5
PGM
SUB
AUX 1
AUX 2
0
4.9
6
-5
10
20
7
30
40
50
60
∞
ON
8
PFL

1	Channel number lable
2	2 selectable audio sources for the channel. The channel is alternatevely choosable. The first is CHA The second is CHB CH A CH B
3	: click this button to set all the parameters related with the CH A audio source : click this button to set all the parameters related with CH B audio source : CH A = ON; CH B = OFF : CH A = OFF; CH B = 0N : press this button to read all the Audio Source info associated with the currently active CHA or CHB here an example



4

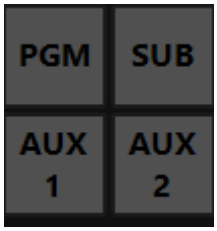
: ON/OFF led for the channel

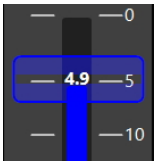
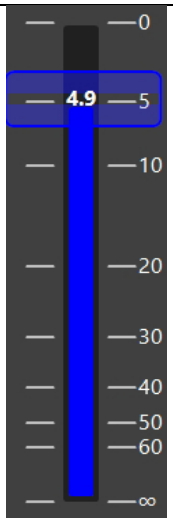


Audio Input Gain

The affected audio source is the one selected (CHA or CHB).

All the channels with the same audio source will be affected.

	Put the mouse in this area left-clicking the mouse drag it up to increase left-ckicking the mouse drag it down to decrease
5	**F1 for Phone Calls** : F1 is disable. The phone line is not hooked : F1 is enable. The phone line is hooked All the channels with the same phone source in active mode will be affected **EQ for the audio input equalizer** : EQ is disabled : EQ is enabled All the channels with the same audio source in active mode will be affected **Channel output BUSS** 

	For each of these previous 4 buttons you can have the 3 different states: = OFF = ON (this color could be customized for each audio source from **MAIN / AUDIO / INPUTS / … / … / BUTTON LIGHT**) = WARM/MUTE (this color could be customized for every console channel independently by the type of the audio source from **MAIN / GENERAL / LIGHT&DISPLAY / MUTE COLOR**)
6	 fader for the channel level adjustment. Drag it with the mouse to the desired level
7	

	Ledbar to display the channel audio level. The fader bar color could be customized for each audio source by the following menu: **MAIN / AUDIO / INPUTS / … / … / FADER BAR LIGHT**
8	**ON/START**: it activates/deactivates the airing of the related channel : The airing of the related channel is enabled, the related slider is positioned at -∞ **(WARM)** : The airing of the related channel is disabled **(OFF)** : The airing of the related channel is enabled **(ON)** This color is related to the following audio source parameter **MAIN / AUDIO / INPUTS / … / … / BUTTON LIGHT** **PFL**: it activates/deactivates the PFL : The PFL * is OFF in the related channel : The PFL * is ON in the related Channel. To change the color go to **MAIN / GENERAL / LIGHT&DISPLAY / PFL** **PFL* *- for PRE FADER LISTENING purposes* *- for telephone private communication with the caller before the phonecall airing*

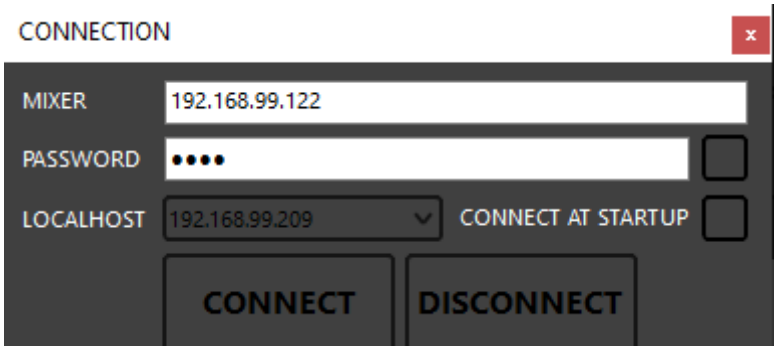
2. MASTER SECTION

1	by this button you can minimize OXYGEN REMOTER if you have more than one screen, by this button you can switch the desired screen. by this button you can close the OXYGEN REMOTER Oxygen Remoter 1 [version: 2.4.0.2] here it is displayed the Oxygen Remoter software version

2

Buttons to enter into console configurations:

Click on this button to open the config mask for the connection with the remote console.
You can also click this button to change the console target, if you are provided with more than one console.



Individual parameters are collected in this Config section: audio settings and other more generic configurations:

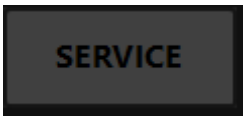
- The **Audio** section will allow you to manage some of the most important parameters relating to audio sources and outputs.
- The **General** section will allow you to manage other features of the console, related to its interaction with any external devices and to manage the IP address of the console in your LAN.

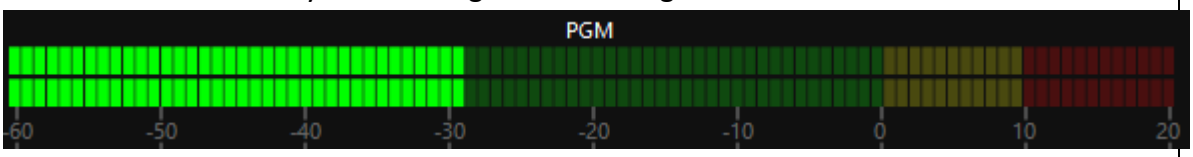
This button will opena a section that will allow you to save and recall a specific setting group to be easily recall as soon as you need it.
The available setting groups are:

- ***CHANNELS***: for channels faders, EQ and COMPRESSOR of the microphones.
- ***EQ***: only for channels equalizers
- ***COMPRESSOR***: for channels compressors and dynamics. Only working for MIC/MONO input channels.

<table>
<tr><td></td><td>

This button will open a section that was specifically designed to let you enable and set remote IP controls (UDP, IP, RestAPI output commands from Oxygen3000 to external devices or softwares).
By here, the Oxygen Remoter allows you to set and manage 2 different kinds of remote controls:
- The first can be managed by the Oxygen3000 smart keys
- the second can be managed by the channel sliders of the Oxygen 3000.
Through Oxygen3000 – SMART KEYS and/or Channel Sliders you will be able to remotely control external devices and/or external softwares.
You only need 3 requirements:
- the external device/software to be controlled must be controllable through one of these 3 protocols: UDP, IP, Rest API
- the external device/software to be controlled must have an available list of accepted commands in one of the 3 protocols UDP, IP, Rest API
- the target device/software IP address is required.



In the Service section, on the other hand, all the operations related to saving, loading the console configuration and the factory reset functionality are collected.</td></tr>
<tr><td>3</td><td>PGM LedMeter to always monitoring the aired Program


Monitor LedMeter to monitor the desired Audio BUSS between PFL, SUB, AUX1, AUX2:

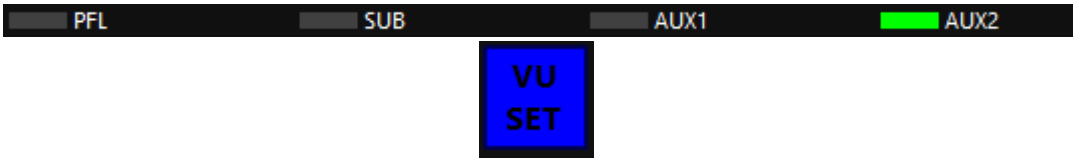
To switch to the next monitorable AUDIO BUSS between the 4 available press

</td></tr>
</table>

<table>
<tr>
<td></td>
<td>
PFL SELECTED

SUB SELECTED

AUX1 SELECTED

AUX2 SELECTED


</td>
</tr>
<tr>
<td>4</td>
<td>
Time and date display

NTP the time is synched with the set NTP Server.
NTP the time is not synched with the set NTP Server.

To set the NTP Server go in
MENU/MAIN/GENERAL/COMMUNICATIONS/TIME&DATE/NTP
</td>
</tr>
</table>

5

Time counters for MIC CUT

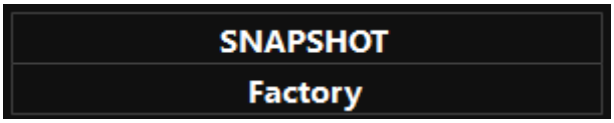
Left counter - STUDIO:

- the counter starts when at least one of the set STUDIO MICs is activated
  by activating one more STUDIO MICs the counter will go on
- the counter stops when all the set STUDIO MICs are OFF

Right counter – CONTROL ROOM:

- the counter starts when at least one of the set CONTROL ROOM MICs is activated
  by activating one more CONTROL ROOM MICs the counter will go on
- the counter stops when all the set CONTROL ROOM MICs are OFF

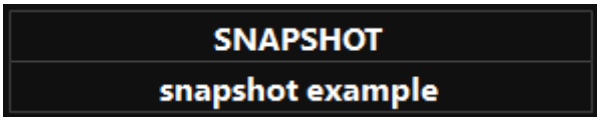
6



This SNAPSHOT section displays to the user the current applied console channel SNAPSHOT.

The above picture shows the **Factory** snapshot has been applied.

In the following example the applied snapshot name is **snapshot example:**



7

The top led bar is the GPI one

The bottom led bar is the GPO one

MIC 2 / MIC 3 / MIC 4 / MIC 5 GPIOs

MIC 2, MIC 3, MIC 4 and MIC 5 are the microphones connectable to the talkboxes, for this reason they have 2 fixed GPI and 1 fixed GPO by default..

The led at the top left, for each of these microphone sources, turns on if this button is pressed on the relative talkbox

The led at the top right, for each of these microphone sources, lights up if this other button on the relative talkbox is pressed.

Bottom GPO led is activated when the related channel is ON

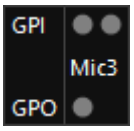
MIC 2 could become one of the mic directly connected to one TALKBOX

Left-top GPI led = ON MIC TALK BACK.
The led tuns on while on the related talkbox the **TALCKBACK** button is ON

Right-top GPI led = ON MIC ON AIR
The led tuns on while on the related talkbox the **ON/COUGH** button is ON

Bottom GPO = the GPO is activated when the related channel is ON

MIC 3 could become one of the mic directly connected to one TALKBOX

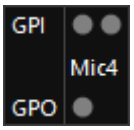


Left-top GPI led = ON MIC TALK BACK.
The led tuns on while on the related talkbox the **TALCKBACK** button is ON

Right-top GPI led = ON MIC ON AIR
The led tuns on while on the related talkbox the **ON/COUGH** button is ON

Bottom GPO led = the GPO is activated when the related channel is ON

MIC 4 could become one of the mic directly connected to one TALKBOX



Left-top GPI led = ON MIC TALK BACK.
The led tuns on while on the related talkbox the **TALCKBACK** button is ON

Right-top GPI led = ON MIC ON AIR
The led tuns on while on the related talkbox the **ON/COUGH** button is ON

Bottom GPO = the GPO is activated when the related channel is ON

MIC 5 could become one of the mic directly connected to one TALKBOX

Left-top GPI led = ON MIC TALK BACK.
The led tuns on while on the related talkbox the **TALCKBACK** button is ON

Right-top GPI led = ON MIC ON AIR
The led tuns on while on the related talkbox the **ON/COUGH** button is ON

Bottom GPO = the GPO is activated when the related channel is ON

Customizable GPIOs

The 1st GPI led

is related to the customizable GPI settable by:
MAIN/MENU/GENERAL/GPIO/GPI/GPI 1A

The 2nd GPI led

is related to the customizable GPI settable by:
MAIN/MENU/GENERAL/GPIO/GPI/GPI 1B

The 3rd GPI

led is related to the customizable GPI settable by:
MAIN/MENU/GENERAL/GPIO/GPI/GPI 2A

The 4th GPI

led is related to the customizable GPI settable by:
MAIN/MENU/GENERAL/GPIO/GPI/GPI 2B

The 1st GPO led

is related to the customizable GPO settable by:
MAIN/MENU/GENERAL/GPIO/GPO/GPO 1A

The 2nd GPO led

is related to the customizable GPO settable by:
MAIN/MENU/GENERAL/GPIO/GPO/GPO 1B

The 3rd GPO led

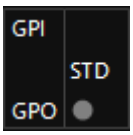
is related to the customizable GPO settable by:
MAIN/MENU/GENERAL/GPIO/GPO/GPO 2A

The 4th GPO led

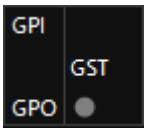
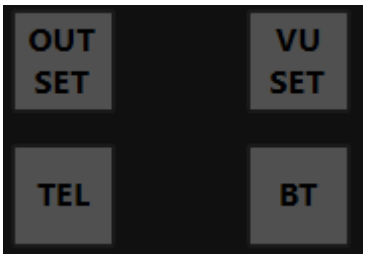
is related to the customizable GPO settable by:
MAIN/MENU/GENERAL/GPIO/GPO/GPO 2B

STD (studio) GPIO

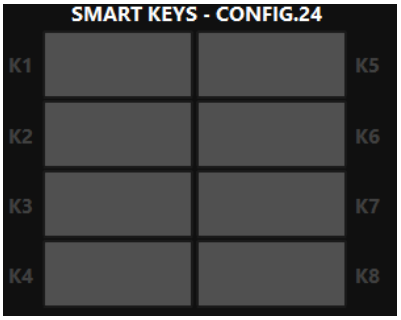
The STD GPO



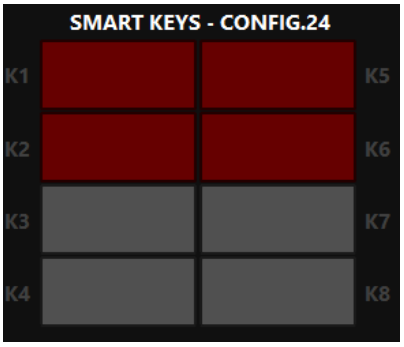
Is related to the customizable GPO settable by:
MAIN/MENU/GENERAL/GPIO/GPO/STUDIO

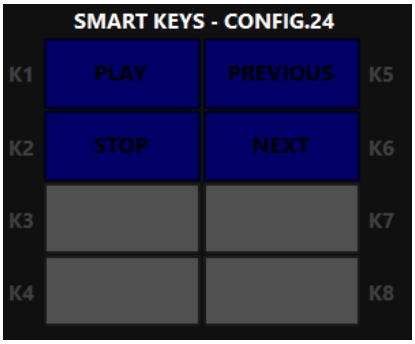
	GST (guest) GPIO The GST GPO  Is related to the customizable GPO settable by: MAIN/MENU/GENERAL/GPIO/GPO/GUEST
	SPECIAL FUNCTION BUTTONS  **:** by pressing OUT SET button you can easily access to the OUTPUT SETTINGS menu **:** by pressing VU SET button you can easily switch between the 4 audio BUSS that you want to monitor: PFL, SUB, AUX1, AUX2, no monitored audio BUSS. : TEL button works as F1 for internal telephone line : by pressing BT you switch on the internal console bluetooth board
9	**SMART KEYS section** This section is useful to use SMART KEYS. These buttons will only work after few settings to be applied. SMART KEYS buttons are used to send IP GPO (and not IP GPI) command in one of the following IP protocols: - TCP - UDP - REST API

The following picture shows you a condition in which all the buttons were not set and in which all the buttons are not working.



The following pictures shows you an example where working smart keys are K1, K2, K5, K6:





By pressing one of the enabled Smart Keys you will send the related TCP, UDP, REST API commands.

To know how to set the Smart Keys and how to associate the desired IP GPOs to them, press:

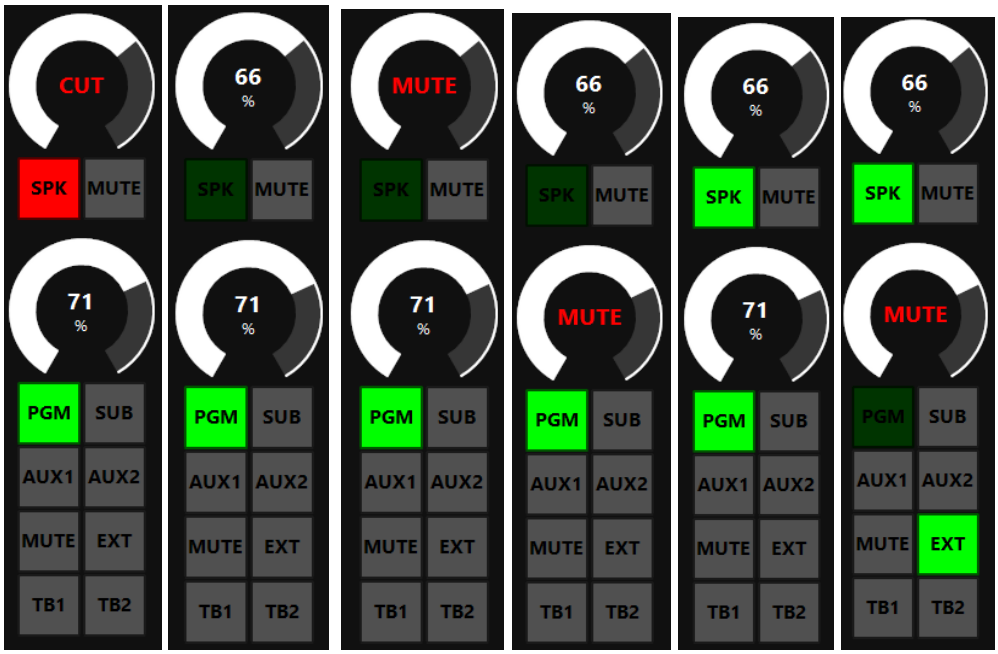
To know the Smart Keys setting procedure, please read the SMART KEYS subsection of this user manual.

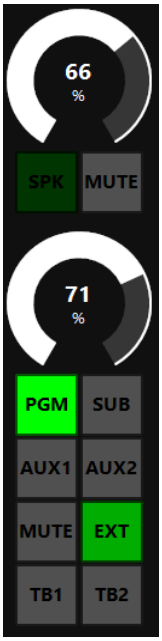
To change the smart keys color go to the following path:
MENU / MAIN / GENERAL SET / SMART KEYS / BUTTON COLOR

10

-STUDIO MONITOR CONTROL SECTION-

This section helps you to easily manage the levels and the audio routings related to your studio monitors (speakers and headphones). Pictures below are possible examples:





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1. First displaying state shows that the STUDIO SPEAKERS are ON and it shows monitor output level.
2. Second displaying state shows that the STUDIO SPEAKERS are on MUTE.
3. Third displaying state indicates that a STUDIO MIC is currently ON and it is currently in CUT with STUDIO SPEAKERS.

---

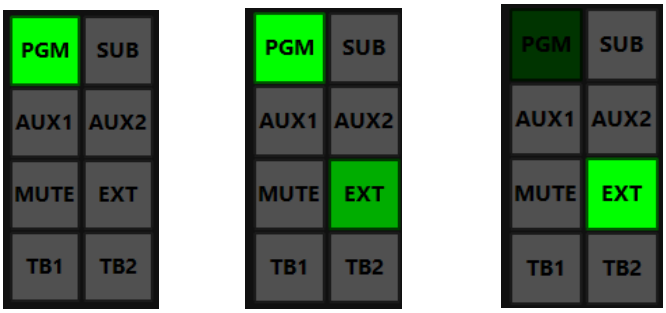
1. First displaying state is a blinking state, it shows that a STUDIO MIC is currently ON and it is currently in CUT with STUDIO SPEAKERS
2. Second displaying state shows that the bottom audio BUSS selection works with STUDIO SPEAKERS.
3. Third displaying state shows that the bottom audio BUSS selection works with STUDIO HEADPHONES.
   This state is only working if the following state is enabled:
   If **MENU/MAIN/AUDIO/OUTPUT/SPK-STUDIO/MODE = 2SEL**
   Or if
   MENU/MAIN/AUDIO/OUTPUT/SPK-STUDIO/MODE=2SEL+PFL

   2SEL means you are able to monitoring different things on STUDIO SPEAKERS and STUDIO HEADPHONES.

By clicking MUTE button you can enable/disable the MUTE state for STUDIO SPEAKERS

---

1. First displaying state shows that the STUDIO HEADPHONES are ON and it shows monitor output level.
2. Second displaying state shows that the STUDIO HEADPHONES are on MUTE.



1. First state shows you the following possibilities
   a. Studio speakers listen PGM audio BUSS
      IF ***MENU/MAIN/AUDIO/OUTPUT/SPK-STUDIO/MODE = 1SEL***
      OR IF
      MENU/MAIN/AUDIO/OUTPUT/SPK-STUDIO/MODE=1SEL+PFL
   b. Studio speakers and Studio Heaphones both listen PGM audio BUSS in following cases.
      IF **MENU/MAIN/AUDIO/OUTPUT/SPK-STUDIO/MODE = 2SEL**
      OR IF
      MENU/MAIN/AUDIO/OUTPUT/SPK-STUDIO/MODE=2SEL+PFL

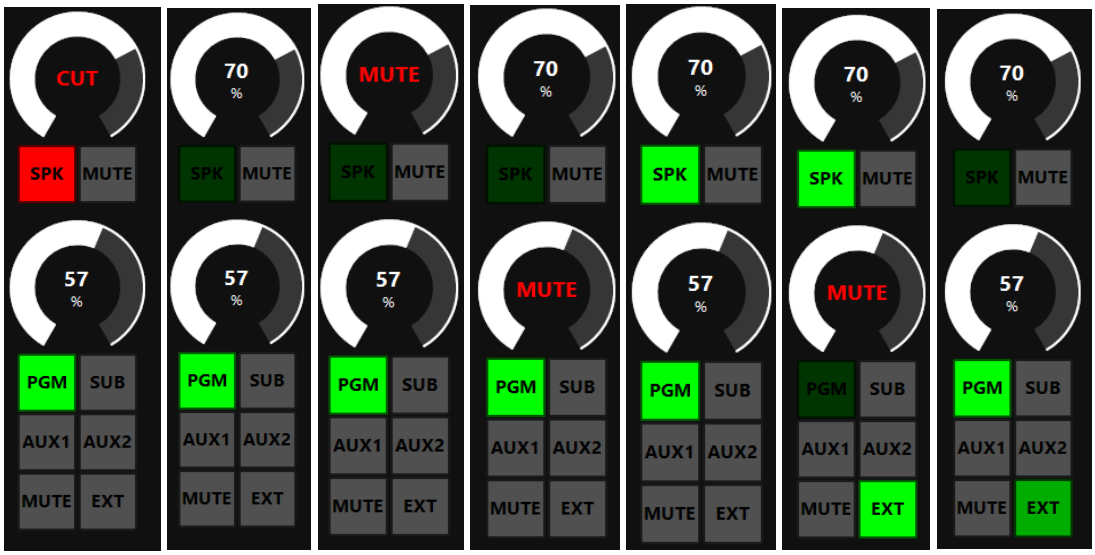
2. Second state shows you that STUDIO SPEAKERS listen PGM audio BUSS and STUDIO HEADPHONES listen for EXT INPUT.
   It is currently enabled the configuration of the audio BUSS for the STUDIO SPEAKERS currently set on PGM
   IF **MENU/MAIN/AUDIO/OUTPUT/SPK-STUDIO/MODE = 2SEL**
   OR IF
   MENU/MAIN/AUDIO/OUTPUT/SPK-STUDIO/MODE=2SEL+PFL

3. Third state shows you that STUDIO SPEAKERS listen PGM audio BUSS and STUDIO HEADPHONES listen for EXT INPUT.
   It is currently enabled the configuration of the audio BUSS for the STUDIO HEADPHONES currently set on EXT INPUT.
   IF **MENU/MAIN/AUDIO/OUTPUT/SPK-STUDIO/MODE = 2SEL**
   OR IF
   MENU/MAIN/AUDIO/OUTPUT/SPK-STUDIO/MODE=2SEL+PFL

11

-CONTROL SECTION OF THE CONTROL ROOM MONITORING-

This section helps you to easily manage the levels and the audio routings related to your control room monitors (speakers and headphones). Pictures below are possible examples:



---

1. First displaying state shows that the CONTROL ROOM SPEAKERS are ON and it shows monitor output level.
2. Second displaying state shows that the CONTROL ROOM SPEAKERS are on MUTE.
3. Third displaying state indicates that a CONTROL ROOM MIC is currently ON and it is currently in CUT with CONTROL ROOM SPEAKERS.

---

1. First displaying state is a blinking state, it shows that a CONTROL ROOM MIC is currently ON and it is currently in CUT with CONTROL ROOM SPEAKERS
2. Second displaying state shows that the bottom audio BUSS selection works with CONTROL ROOM SPEAKERS.
3. Third displaying state shows that the bottom audio BUSS selection works with CONTROL ROOM HEADPHONES.

This state is only working if the following state is enabled:

If **MENU/MAIN/AUDIO/OUTPUT/SPK-CRM/MODE = 2SEL**

Or if

MENU/MAIN/AUDIO/OUTPUT/SPK-CRM/MODE=2SEL+PFL

2SEL means you are able to monitoring different a on CONTROL ROOM SPEAKERS and CONTROL ROOM HEADPHONES.

By clicking MUTE button you can enable/disable the MUTE state for CONTROL ROOM SPEAKERS

---

1. First displaying state shows that the CONTROL ROOM HEADPHONES are ON and it shows monitor output level.
2. Second displaying state shows that the CONTROL ROOM HEADPHONES are on MUTE.

---

1. First state shows you the following possibilities
    a. Control Room speakers listen PGM audio BUSS

    IF ***MENU/MAIN/AUDIO/OUTPUT/SPK-CRM/MODE = SEL***

    OR IF

    MENU/MAIN/AUDIO/OUTPUT/SPK-CRM/MODE=SEL+PFL

    b. Control Room speakers and Control Room Heaphones both listen PGM audio BUSS in following cases.

    IF **MENU/MAIN/AUDIO/OUTPUT/SPK-CRM/MODE = 2SEL**

    OR IF

    MENU/MAIN/AUDIO/OUTPUT/SPK-CRM/MODE=2SEL+PFL

	2. Second state shows you that CONTROL ROOM SPEAKERS listen PGM audio BUSS and CONTROL ROOM HEADPHONES listen for EXT INPUT. It is currently enabled the configuration of the audio BUSS for the CONTROL ROOM SPEAKERS currently set on PGM *IF* **MENU/MAIN/AUDIO/OUTPUT/SPK-CRM/MODE = 2SEL** *OR IF* **MENU/MAIN/AUDIO/OUTPUT/SPK-CRM/MODE=2SEL+PFL** 3. Third state shows you that CONTROL ROOM SPEAKERS listen PGM audio BUSS and CONTROL ROOM HEADPHONES listen for EXT INPUT. It is currently enabled the configuration of the audio BUSS for the CONTROL ROOM HEADPHONES currently set on EXT INPUT. *IF* **MENU/MAIN/AUDIO/OUTPUT/SPK-CRM/MODE = 2SEL** *OR IF* **MENU/MAIN/AUDIO/OUTPUT/SPK-CRM/MODE=2SEL+PFL**

2.1 SETUP

The Setup section is divided in 3 subsections:

- AUDIO
- GENERAL
- SERVICE

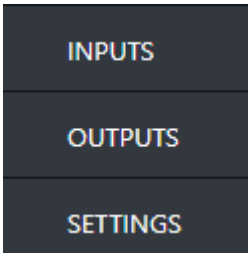
From AUDIO section the user can set the sources and the console audio routing for the desired station workflow.

In GENERAL section it will be possible to change the console IP Address, to set the GPIO commands, the internal clock, the light and display configurations and to lock the console with a special access code.

In SERVICE section it will be possible to manage and read useful software informations

2.1.1. AUDIO

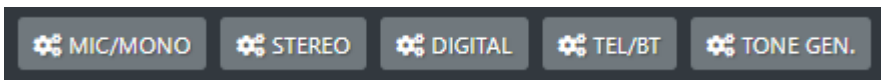
This section is divided in INPUT, OUTPUT and SETTINGS:



The parameters are exactly the same as explained into the Oxygen 3000 official manual

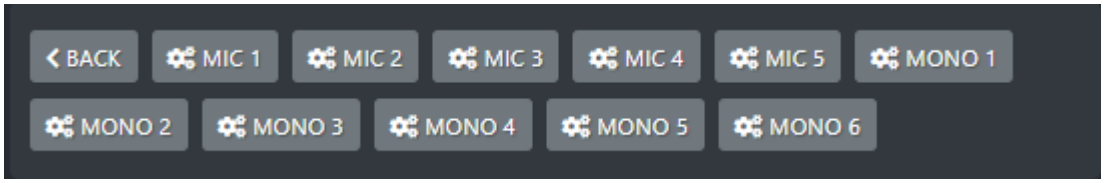
a. INPUTS

The Inputs are divided in the following subsections:



2.1.1.1.1 MIC/MONO

THE MIC/MONO are divided in the following subsections:

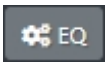


Available General Settings for Microphone input channels are:

- Phantom 48V
- Preamp

- Spk-cut
- Onair light
- Private mic
- TB mic
- F1 mode
- Gain
- Bal/pan
- AUX-1
- AUX-2
- Button light
- Fader bar light
- Custom name
- Phase

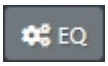
You can set DUCKING parameters for the selected microphone by pressing:

You can set EQ parameters for the selected microphone by pressing: 

You can set COMPRESSOR parameters for the selected microphone by pressing:

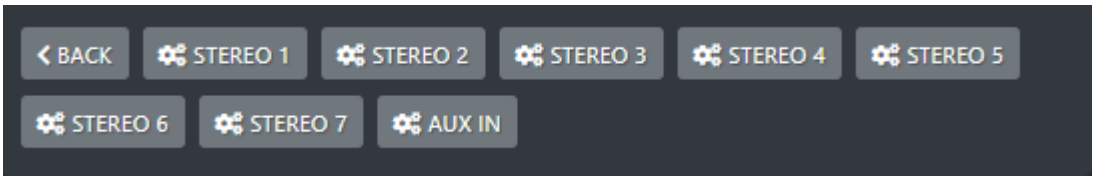
Available General Settings for MONO input channels are:

- Spk-cut
- Onair light
- Private mic
- TB mic
- F1 mode
- Gain
- Bal/pan
- AUX-1
- AUX-2
- Button light
- Fader bar light
- Custom name
- Phase

You can set EQ parameters for the selected microphone by pressing: 

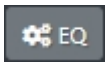
2.1.1.1.2 STEREO

The Stereo inputs are divided in following subsections:



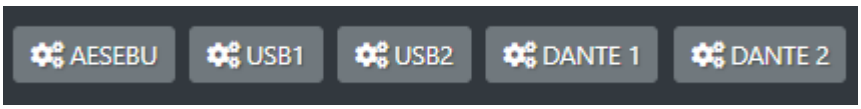
Available General Settings for STEREO input channels are:

- Mode
- Gain
- Bal/pan
- AUX-1
- AUX-2
- Button light
- Fader bar light
- Custom name
- Phase

You can set EQ parameters for the selected Stero line by pressing: 

2.1.1.1.3 DIGITAL

The Digital inputs are divided in following subsections:



Available General Settings for DIGITAL input channels are:

- Mode
- Gain
- Bal/Pan
- AUX-1
- AUX-2
- Button light
- Fader bar light
- Custom name
- Phase

You can set EQ parameters for the selected DIGITAL input by pressing:

2.1.1.1.4 TEL/BT

The Tel/Bt are divided in following subsections:

Available General Settings for TELEPHONE channels are:

- F1 mode
- Gain TX
- Gain
- Bal/pan
- AUX-1
- AUX-2
- Button light
- Fader bar light
- Custom name
- Phase

You can set EQ parameters for the selected TELEPHONE channels by pressing:

2.1.1.1.5 TONE GEN.

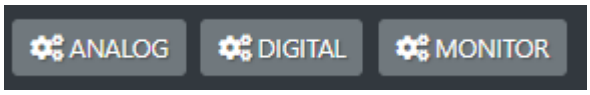
In TONE GEN. subsection you have all the Tone Generator parameters.

Available General Settings for TONE GEN. are:

- Frequency
- Mode
- Gain
- AUX-1
- AUX-2
- Button light
- Fader bar light
- Custom name
- Phase

b. OUPUTS

The Outputs are divided in the following subsections:



2.1.1.2.1 ANALOG

The ANALOG outputs are divided in following subsections:

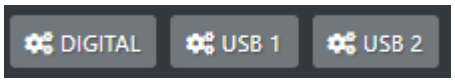
Available General Settings for all of these Analog Output BUSS are:

- Source
- Mode
- Gain

In AUX1, AUX2, REC1 and REC2 source menu you are free to decide to replicate another output BUSS.

2.1.1.2.2 DIGITAL

The DIGITAL outputs are divided in following subsections:



Available General Settings for the Digital Output BUSS are:

- Source
- Mode
- Gain

Available General Settings for both USB1 and USB2 output BUSS are:

- Source
- Gain

2.1.1.2.3 MONITOR

The MONITOR outputs are divided in following subsections:

2.1.1.2.3.1 SPEAKER MONITORS

The SPEAKER monitors are divided in following subsections:

Available General Settings for the SPK-CRM (Control Room Speakers) are:

- Talkback
- Max lev out
- Gain
- Cut-att-mode
- Source
- Mute

Available General Settings for the SPK-STUDIO (Studio Speakers) are:

- Talkback
- StudioSource
- Max lev out
- Gain
- Cut-att-mode
- Source
- Mute

2.1.1.2.3.2 HEADPHONE MONITORS

The HEADPHONE monitors are divided in following subsections:

Available General Settings for the HDP-CRM (Control Room Headphones) are:

- Talkback
- Max lev out
- Source
- Mute

Available General Settings for the HDP-GUEST (Guest Headphones) are:

- GuestSource
- Talkback
- StudioSource
- Max lev out
- Gain
- Source
- Mute

Available General Settings for the HDP-STUDIO (Studio Headphones) are:

- Linked mode
- Talkback
- Studio Source
- Max lev out
- Gain
- Source
- Mute

c. SETTINGS

The Audio Settings are divided in the following subsections:

2.1.1.3.1. GENERAL

Available Settings of the General section are:

- EXT. INPUT
- PFL mode
- FaderThreshold
- Mic5 Mode
- Line1 Mode
- Line2 Mode
- Line3 Mode
- Line4 Mode
- Line5 Mode
- Dante mode

2.1.1.3.1.1. VJ PRO MODE

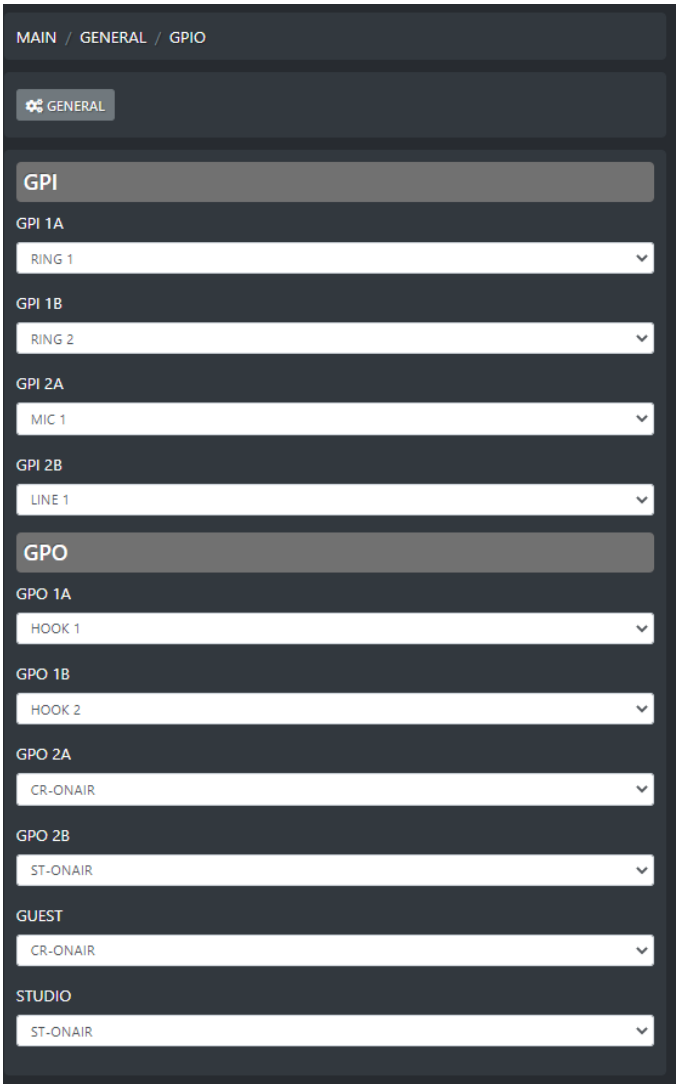
Available VJ PRO MODE settings are:

- CtrlSource
- Source1
- Source2
- BusSource

2.1.2. GENERAL

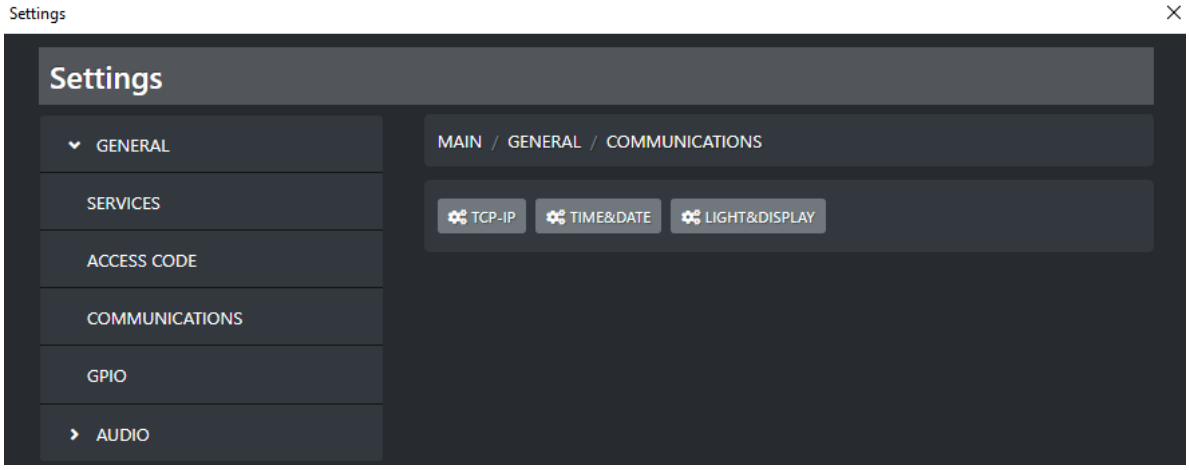
2.1.2.1. GPIO

From GPIO commands connected to the related pins.



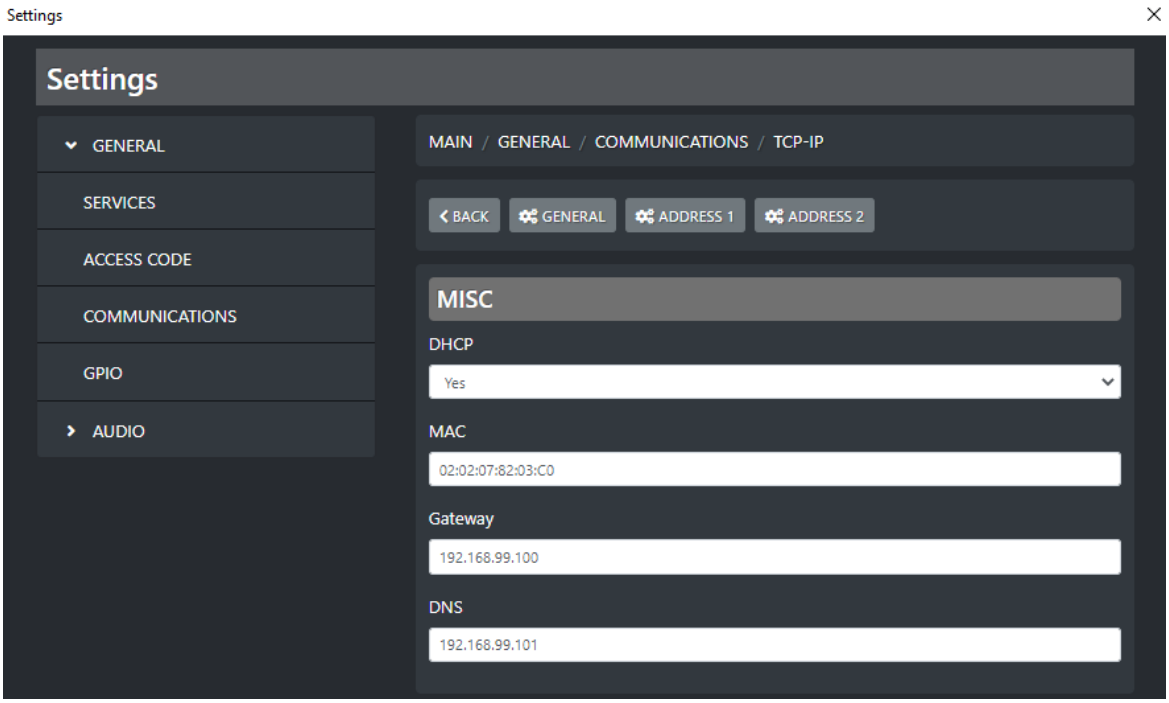
2.1.2.2. COMMUNICATIONS

From the **COMMUNICATIONS** section the user is able to enter in the 3 submenus: **TCP-IP**, **TIME&DATE** and **LIGHT&DISPLAY**.



2.1.2.2.1. TCP-IP

From this subsection you can define the most general TCP-IP parameters:



DHCP: Select **YES** to enable DHCP

Select **NO** to disable DHCP

MAC: this parameter shows you the console MAC Address.

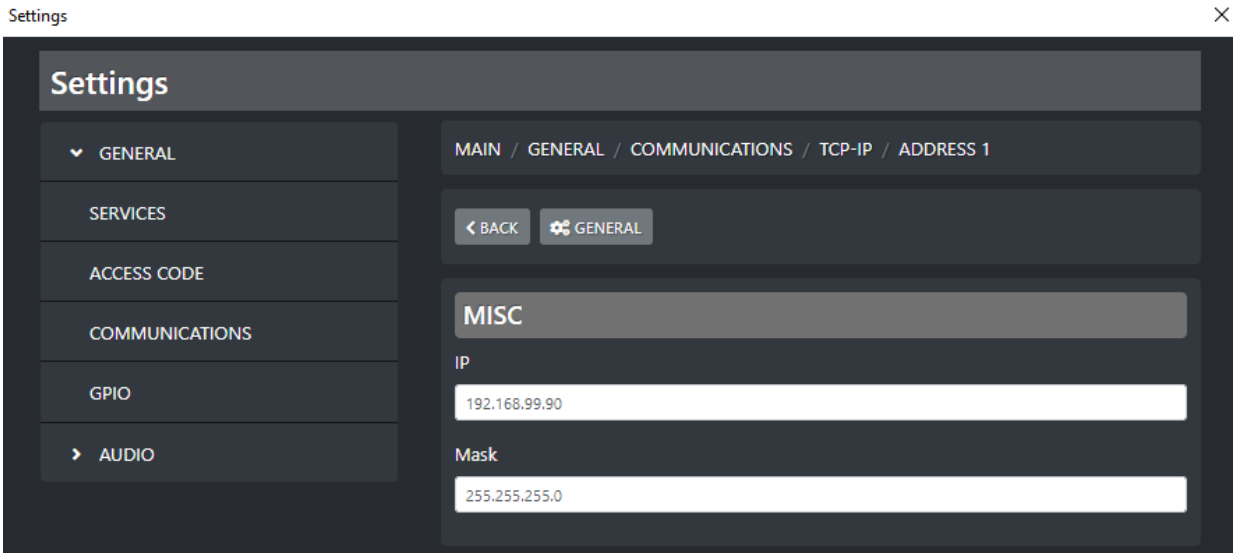
GATEWAY: type your gateway IP Address

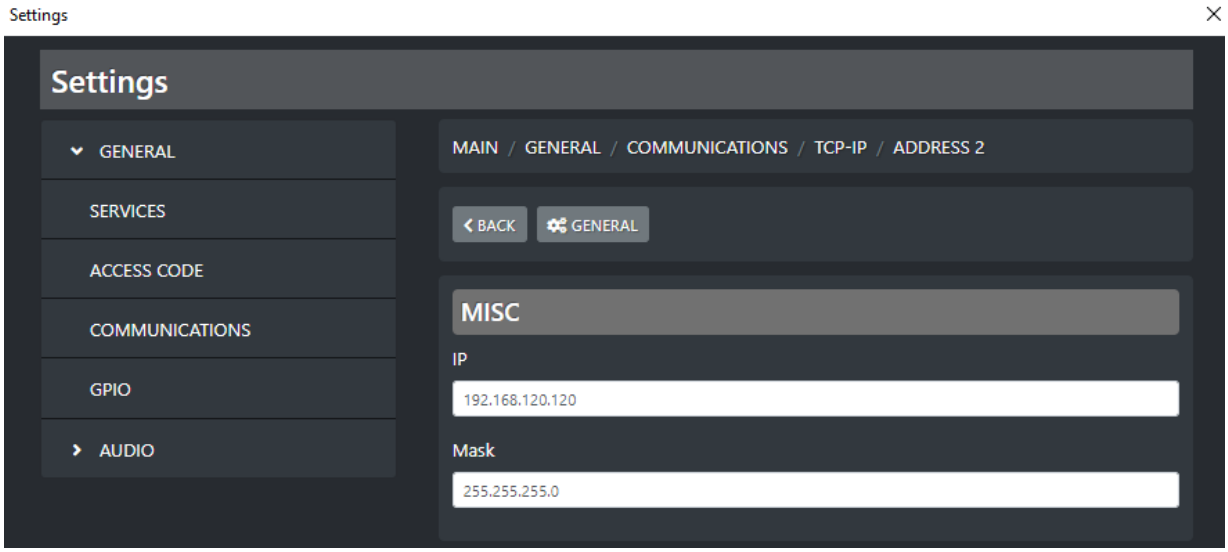
DNS: if available type your DNS IP Address

2.1.2.2.1.1. ADDRESS 1 / ADDRESS 2

You can assign 2 different IP Addresses to the console.

This paragraph is useful both for Address 1 and for Address 2





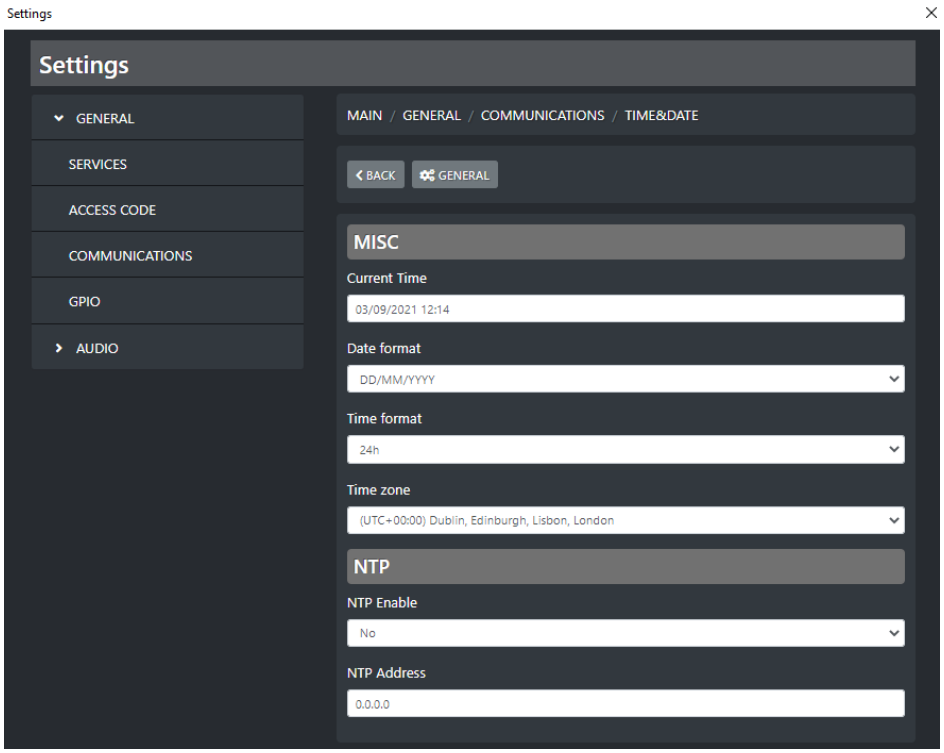
IP: type the desired IP Address to be assigned to the console into your LAN

Mask: Type the subnet mask, by default **255.255.255.0**

2.1.2.2.1.2. TIME&DATE

From this subsections you can define some parameters connected with the time&date displaying and format.

If you are provided by NTP server, you can also type here its IP Address.



Current Time: click on this field and type for the desired Current Date and Current Time. You can decide the Date format and the Time format in the following 2 parameters

Date Format: The selectable Date formats are **DD/MM/YYYY** or **MM/DD/YYYY**

Time Format: The selectable Time formats are **24h** or **AM/PM** (12h)

Time zone: By this parameter you can define the Time zone in which you reside.

NTP Enable:

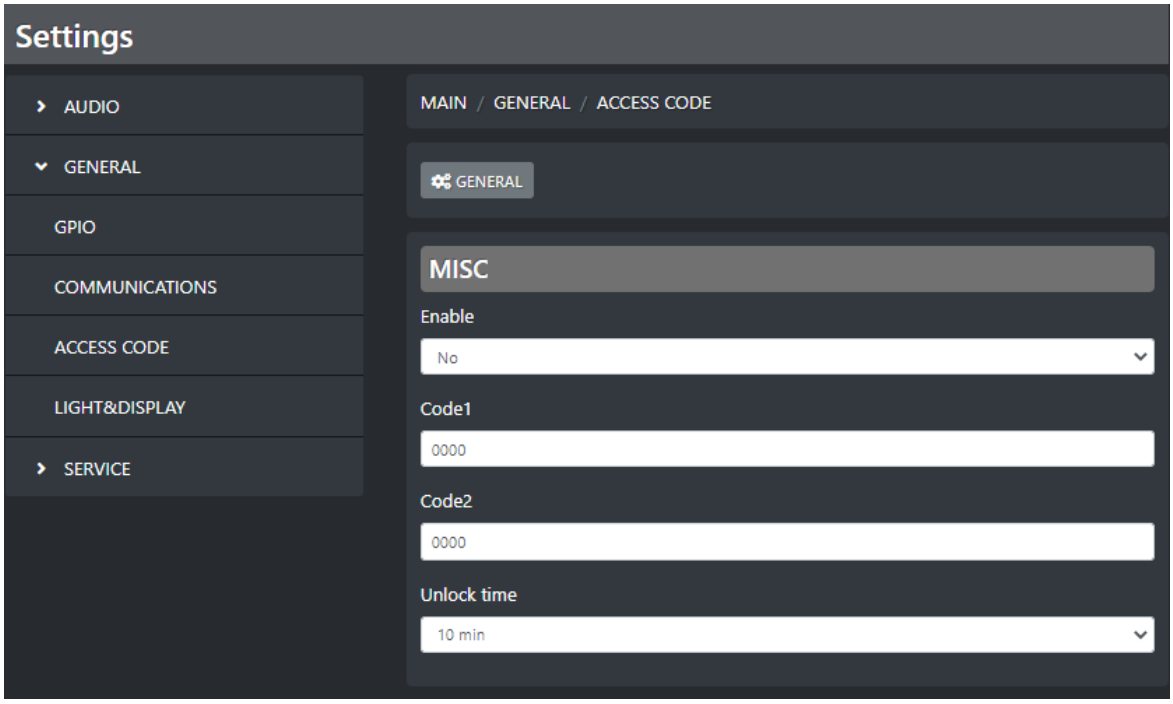
If you are provided of a NTP Server and you want to connect the console time to it select **YES**

If you do not want to connect the console to the NTP Server or if you are not provided of it select **NO**

NTP Address:

If in the previous parameters you have selected **YES,** here you can type your NTP Server IP Address.

2.1.2.3. ACCESS CODE



Enable: enable / disable total blocking of console surface controls

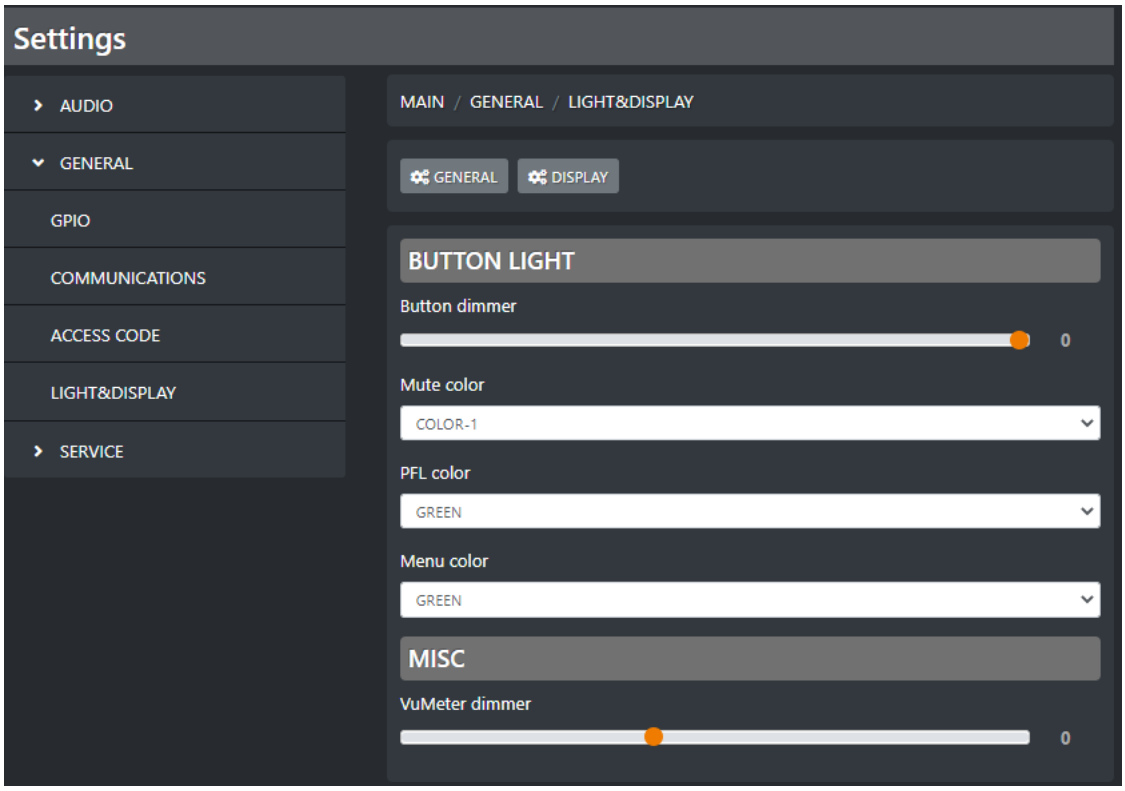
Code1 / Code2: set the codes here to unlock the console. The unlock codes can be 2 different (for two different people) or they can possibly be both the same (as shown in this previous default example). Set here the 2 sequences of 4 numbers you want. These codes must be entered from the surface when unlocking.

Unlock time: console inactivity time required to enter the lock state

2.1.2.4. LIGHT&DISPLAY

By this submenu you can manage all the lights of your buttons, VuMeters and the Display

2.1.2.4.1. GENERAL / BUTTON LIGHT



Button dimmer: adjust the button dimmer of the console by moving the cursor to your left to decrease intensity, by moving the cursor to your right to increase it. 0 is the maximum dimmer light. All the console buttons will be affected by this change.

Mute color: Between availables, assign here the desired color for the ON/START button in MUTE state

PFL color: Between availables, assign here the desired color for the PFL active state.

Will be also affected by this change:
active output BUSS for all the channels: PGM, SUB, AUX1, AUX2.
and
active METER in MAIN section.

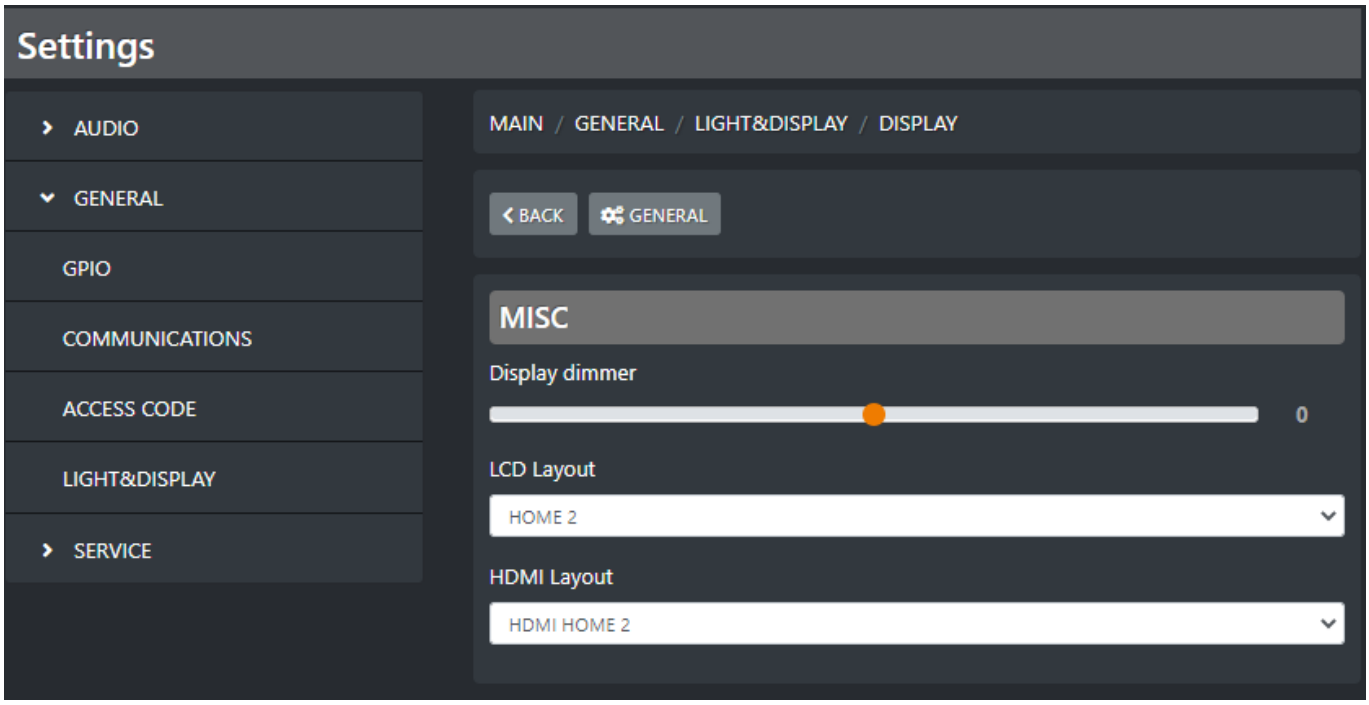
Menu color: Between availables, assign here the desired color for the MENU button and all of the squared button below

VuMeter dimmer: adjust the VuMeter dimmer of the console by moving the cursor to your left to decrease intensity, by moving the cursor to your right to increase it. 0 is the maximum VuMeter dimmer. All the console VuMeters will be affected by this change.

Ps: if a jingle button is active it will be colored.

You can select the desired color from the following menu:
MENU / MAIN / GENERAL SET / SMART KEYS / BUTTON COLOR

2.1.2.4.2. DISPLAY



Display dimmer: Set here the desired display dimmer light. Default is 0

LCD Layout: this menu refers to OXYGEN 3000 display.

The available LCD layouts are 2 (HOME 1, HOME 2). By this menu select the desired one.

HDMI Layout: this menu refers to the external HDMI screen connected to the back OXYGEN 3000 HDMI port.

The available HDMI layouts are 3 (HDMI HOME 1, HDMI HOME 2, HDMI HOME 3).

TEST PAGE is a particular option that can be selected by the user in case of need

MENU mirror shows you on the external HDMI screen what is currently on LCD display.

By this menu select the desired HDMI layout.

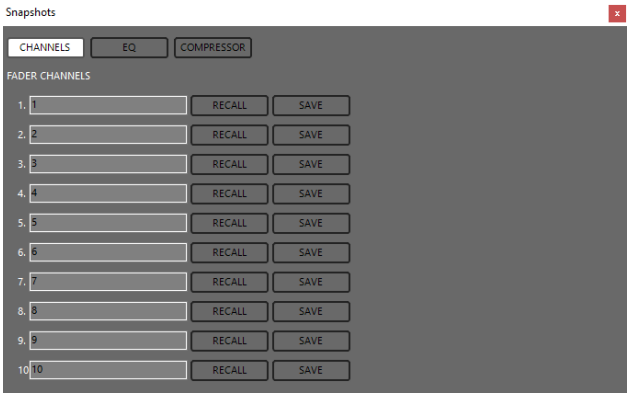
2.2 SNAPSHOTS

Snapshot panel allows you to save 10 presets for CHANNELS, 10 presets for EQ and 10 presets for COMPRESSOR:

2.2.1. CHANNELS:

By this section you can easily save and recall up to 10 presets.
Into each preset (1, 2, 3, 4, 5, 6, 7, 8, 9, 10) you can store all the current Channels (CH1, CH2, CH3…CH10) status related to **Audio Inputs (CHA and CHB) assignment**, **EQ** and **COMPRESSOR**.
These presets allow you to change very fastly from 10 different OXYGEN 3000 intended use.
Everytime you need a totally different console configuration, these presets will avoid you to manually change the most important channel parameters one by one.

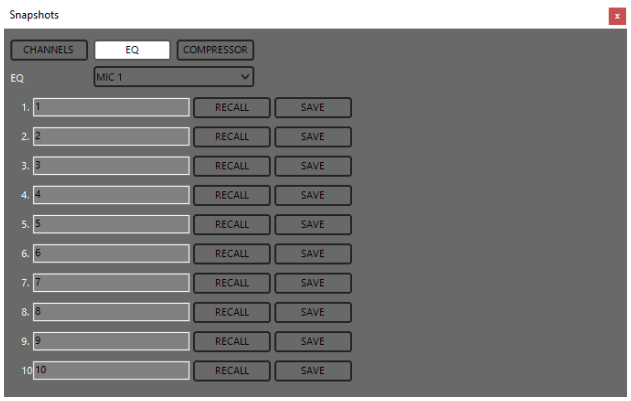
- Decide which preset you want to save or recall (in example preset **1**.)
  - To Save: Press **SAVE** next to the desired **preset line** (in our example 1.) to store there all the current Channels console **Audio Inputs (CHA and CHB) assignment**, **EQ** and **compressors**.
  - To Recall: Press **RECALL** next to the desired **preset line** (in our example 1.) to apply this **previously saved preset** to **all the console**.



2.2.2. EQ

By this section you can easily save and recall up to 10 EQ presets. These 10 presets will be available and will be the same for all the audio sources:

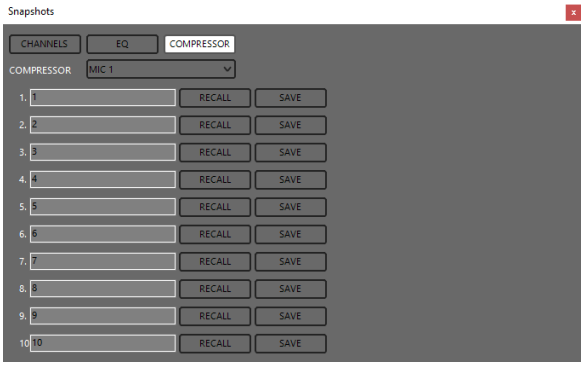
- Select an **Audio Source** (In example MIC1)
- Decide which **preset** you want to save or recall (in example preset **5**.)
  - To Save: Press **SAVE** next to the desired **preset line** (in our example 5.) to store there the current **EQ Settings** of the selected **Audio Source** (in our example MIC1).
  - To Recall: Press **RECALL** next to the desired **preset line** (in our example 5.) to apply this **previously saved preset** to the selected **Audio Source** (in our example the preset 5. will be applied to MIC1).



2.2.2.1. COMPRESSOR

By this section you can easily save and recall up to 10 COMPRESSOR presets. These 10 presets will be available and will be the same only for all the **MIC / MONO** audio sources. The compressor does not work for Stereo, Telephone, Digital lines:

- Select an **Audio Source** (In example MIC2)
- Decide which **preset** you want to save or recall (in example preset 4.)
  - To Save: Press **SAVE** next to the desired **preset line** (in our example 4.) to store there the current **COMPRESSOR Settings** of the selected **Audio Source** (in our example MIC2).
  - To Recall: Press **RECALL** next to the desired **preset line** (in our example 4.) to apply this **previously saved preset** to the selected **Audio Source** (in our example the preset 4. will be applied to MIC2).

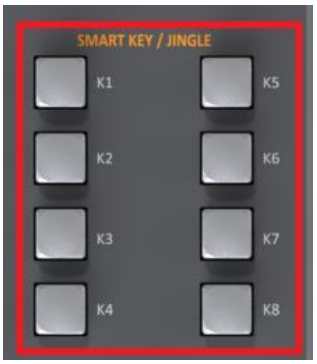


2.3 SMART KEYS

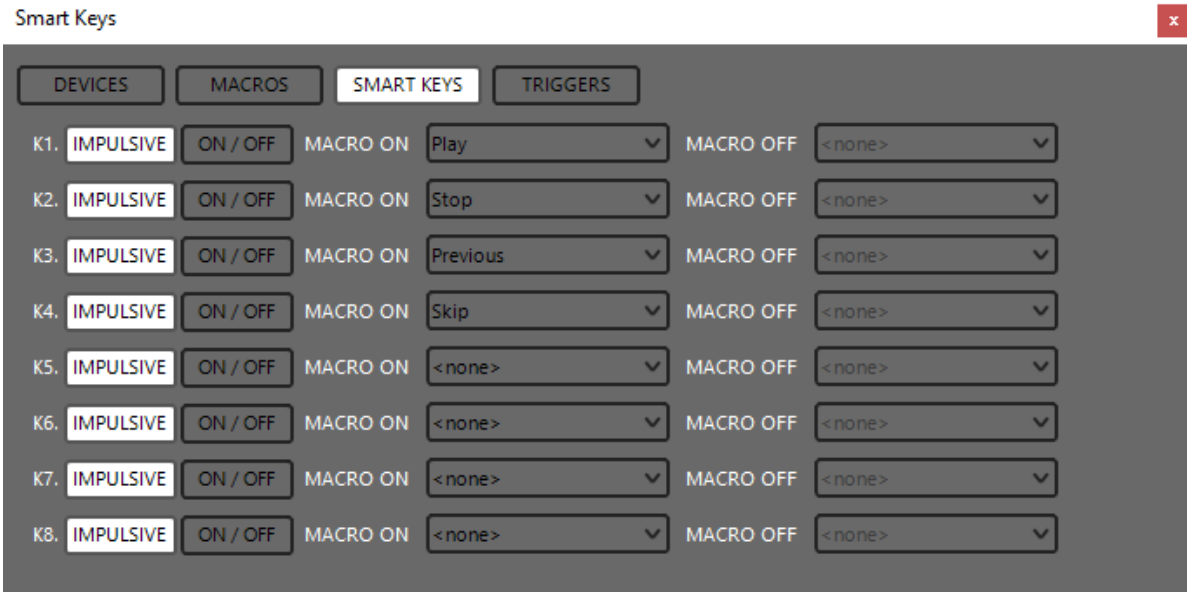
The Oxygen Remoter allows you to set and manage 2 different kind of outcoming IP commands:

- The first one works with **SMART KEYS** and could be managed by Oxygen3000 Smart Keys
- the second one works with **TRIGGER** and could be managed by the desired OXYGEN 3000 channel slider and related “ON/OFF buttons” = ON:

2.3.1. SMART KEY COMMANDS ASSOCIATED WITH SMART KEY BUTTONS



The Smart Keys commands are definable in **Oxygen Remoter** Application.
By clicking one of the Oxygen Remoter - **Smart Key** (from **K1** to **K8**) buttons you can automatically send a **TCP** or an **UDP** or a **Rest API** Command to a remote application/device compatible with these 3 different communication protocols (in example your Automation Software). Each **Smart Key** could control the remote software by OneButtonPressure (**IMPULSIVE**) or by TwoButtonPressure (first pressure for **ON** and second pressure for **OFF**). This kind of control could be assigned by
OXYGEN REMOTER > SMART KEYS > SET > SMART KEYS



2.3.2. TRIGGER COMMANDS ASSOCIATED WITH CHANNEL SLIDER AND/OR ON/START BUTTON PRESSURE

As you already know on each **Oxygen3000** channel you can associate one **A SOURCE** and an alternative **B SOURCE**.
In example: CH1 could have the following 2 alternative audio sources:

A SOURCE = *MIC 1*
B SOURCE = *STEREO 1*

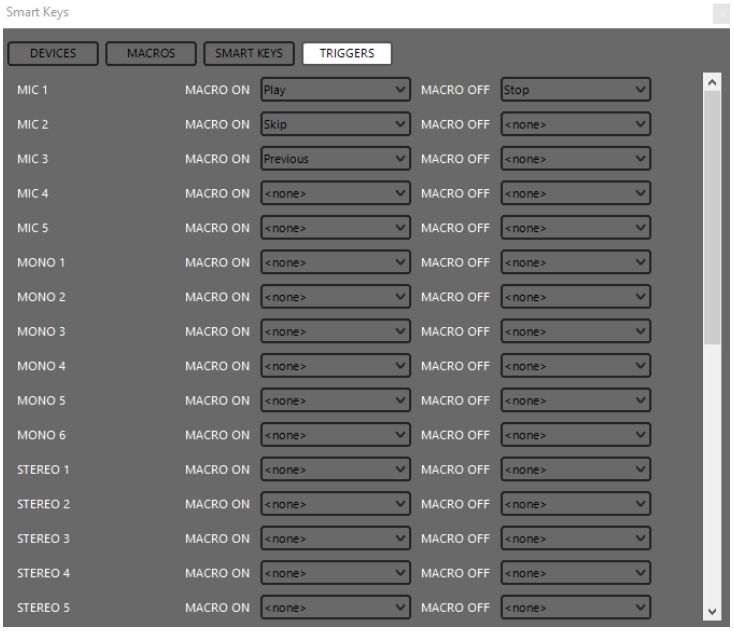
You can decide the command to be sent to the Remote APP / Device (in example your **Automation Software**)

- at the slider rise-up or at the ON/START (ON mode) pressure (**MACRO ON**)
- at the slider rise-down or ON/START (OFF mode) pressure (**MACRO OFF**).

- If **A SOURCE** is the current active source in the channel
  and if you have correctly defined a specific command for **A SOURCE** (in this example **MIC 1**)
  the command will be successfully forwarded to the defined remote Application/Device.
- If **B SOURCE** is the current active source in the channel
  and if you have correctly defined a specific command for **B SOURCE** (in this example **STEREO 1**)
  the command will be successfully forwarded to the defined remote Application/Device.

Also here **TCP** or **UDP** or **REST Api** are the usable communication protocols.
This kind of control could be assigned by

OXYGEN REMOTER > SMART KEYS > SET > TRIGGERS



2.3.3. SMART KEYS AND CHANNEL TRIGGERS ASSIGNMENT AND MANAGEMENT

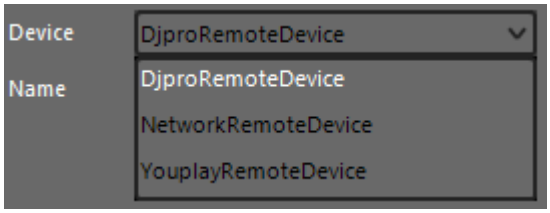
1. Understand if the Remote Application / Device (in example an Automation Software) that you want to control is compatible with **TCP**, **UDP** or **REST Api** incoming commands.
   If it is, this **Application** / **Device** must have a list of the accepted commands.
   In example here a list of our YOUPLAY production software with all the possible Rest API commands:

Uri	Metodo	Descrizione
/Append	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/Append?path={FILEORFOLDERPATH}
/BatchCaptureStart	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/BatchCaptureStart
	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/BatchCaptureStart?name={TARGETNAME}&overwrite={BOVERWRITE}&duration={DSECONDS}
/BatchCaptureStatusGet	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/BatchCaptureStatusGet
/BatchCaptureStop	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/BatchCaptureStop
/CaptureAddToPlaylist	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/CaptureAddToPlaylist?value={IVALUE}
/CaptureGrabGet	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/CaptureGrabGet?w={WIDTH}&h={HEIGHT}
/CaptureIPStreaming	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/CaptureIPStreaming?value={IVALUE}
/CaptureStart	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/CaptureStart
/CaptureStop	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/CaptureStop
/CaptureSwitch	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/CaptureSwitch
/CaptureTakeSnapshot	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/CaptureTakeSnapshot
/CaptureVideoLineInGet	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/CaptureVideoLineInGet
/CaptureVideoLineInSet	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/CaptureVideoLineInSet?line={SLINE}
/ChangeCaptureScheduler	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/ChangeCaptureScheduler?enabled={ENABLED}
/ClearAired	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/ClearAired?clear={ICLEAR}
/ClearPlaylist	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/ClearPlaylist
/DeleteCaptureSchedule	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/DeleteCaptureSchedule?name={DESCRIPTION}
/FileCaptureStart	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/FileCaptureStart
	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/FileCaptureStart?name={TARGETNAME}&overwrite={BOVERWRITE}
/FileCaptureStatusGet	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/FileCaptureStatusGet
/FileCaptureStop	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/FileCaptureStop
/FillCaptureSchedule	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/FillCaptureSchedule?enabled={ENABLED}&name={DESCRIPTION}&from={DTSTART}&to={DTEND}&days={DAYSOFWEEKS}&split={SPLITDURATION}&type={TARGETTYPE}&profile={PROFILENAME}&syntax={TARGETSYNTAX}&overwrite={ALWAYSOVERWRITE}&delete={DELETEDAYS}&cmd={CMDNAME}
/GetApplicationInfo	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/GetApplicationInfo
/GetCaptureProfileNames	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/GetCaptureProfileNames
/GetCaptureScheduleNames	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/GetCaptureScheduleNames
/GetCommandNames	GET	Servizio in http://192.168.99.177:8090/YouPlay1/REST/GetCommandNames

   The commands are special strings that you can type into **Oxygen Remoter** Environment as you can see by following steps.

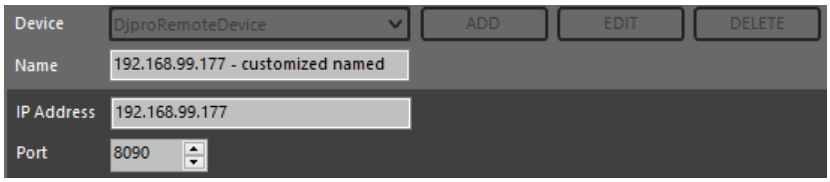
2. In **DEVICES** section you can define the Remote Device where the desired *Remote Application* is installed:

   a. Defining the ***Remote Device / Application*** that you want to control



   b. Pressing **ADD** to define all the communication parameters with your external device

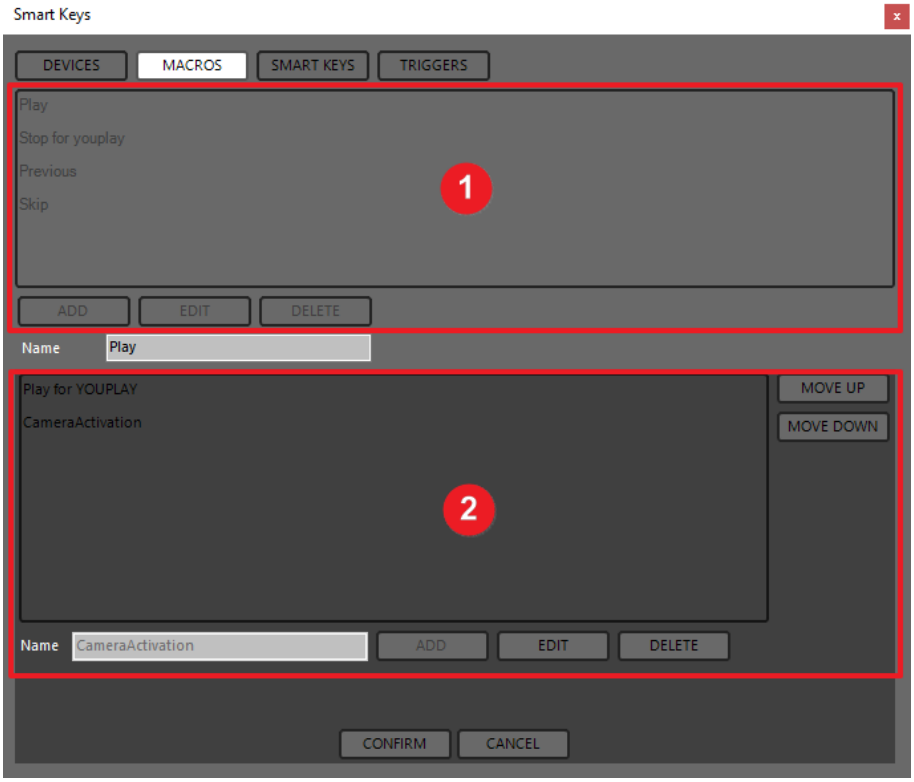
   c. assigning a customizable **Name** of the *Remote Device/Application*
   d. typing the *Remote Device/Application* **IP Address**
   e. selecting the **Port** for the communication (TCP or UDP or Rest API). The port is definable into the Remote Application, not by Oxygen Remoter.



After the confirmation the device will be added to your **DEVICE** list

Select an existing device to **EDIT** or to **DELETE** it. The change will be applied only after **CONFIRM** button pressure.

3. in **MACROS** section you can manage the command MACROS to be sent to the remote software / device.



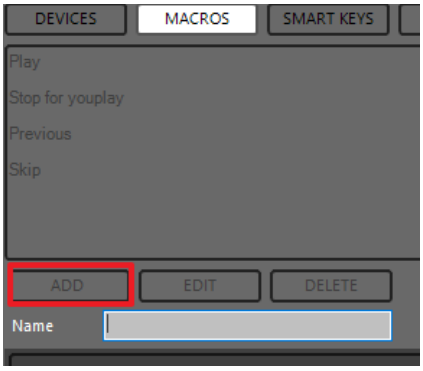
The MACROS tab is divided in 2 different sub-sections, as shown by the previous picture:

1. **MACRO section**
2. **Command manager**

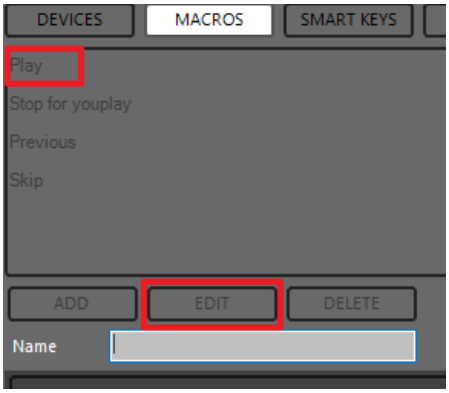
A single MACRO could be composed by one command or multiple commands.
Multiple commands in a single MACRO are useful if you need to control 2 or more external softwares/devices in the same time.

MACRO SECTION:

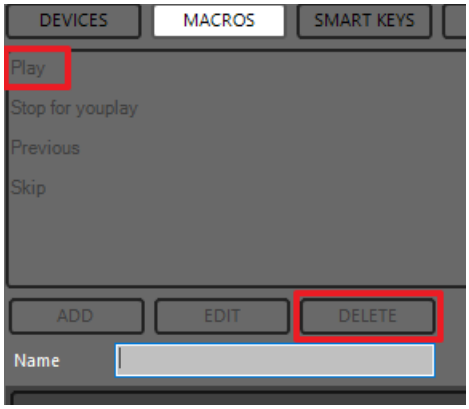
- Click on ADD to create a new MACRO:



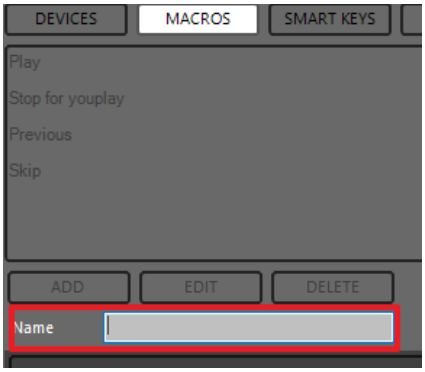
- Select an existing Macro and click on EDIT to change the Macro name



- Select an existing Macro and click on DELETE to delete the Macro



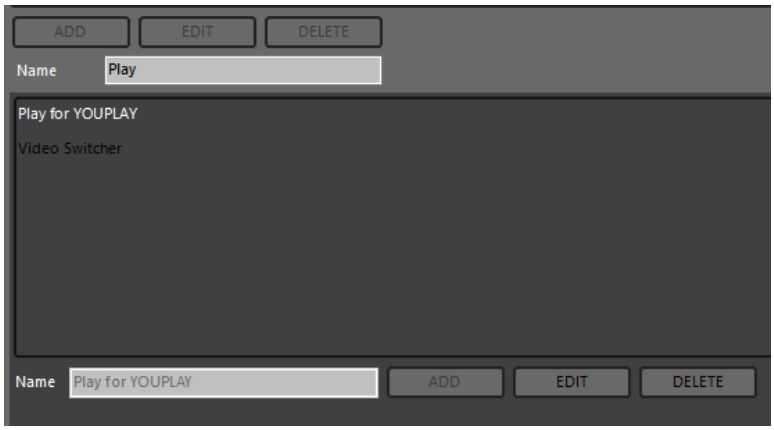
Type a desired Macro name or if it already exists change it in the **Name** field:



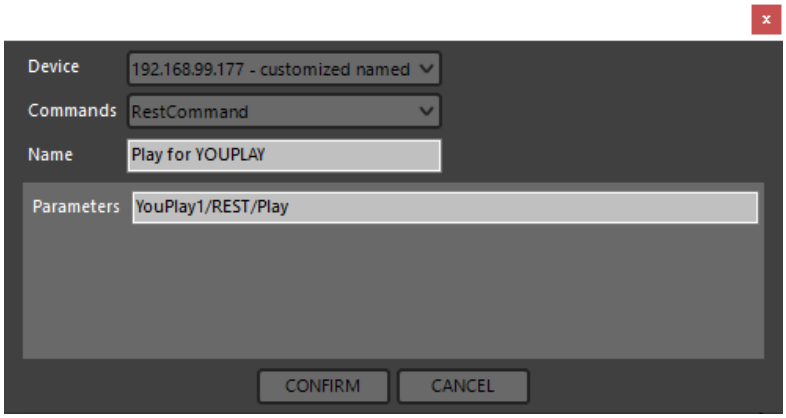
COMMAND MANAGER

Select a Macro (in example Play) and start the commands definition in the bottom section.

- Click on **ADD** to create a new IP command associated with the selected MACRO.
- Select an existing IP Command and click on **EDIT** to change command parameters
- Select an existing IP Command and click on **DELETE** to delete the command and its parameters

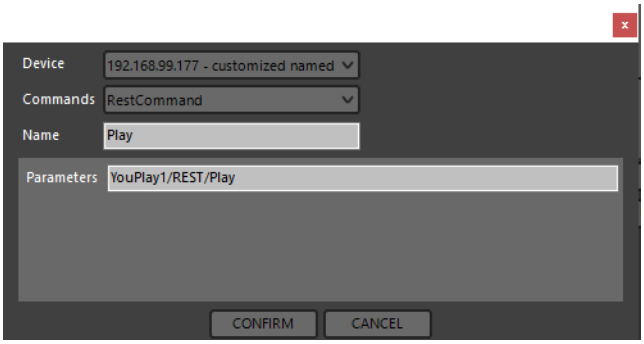


By pressing **ADD** or **EDIT** the following window will be opened:



a. Selecting the **Target Device** / **Application** defined in the previous point
b. Select the **Protocol** of the communication between the available ones (*TCP, UDP, Rest API*)
c. Typing a customizable Command **Name**
d. In the Parameters field you have to paste the exact command string available into the **Remote Application** (in example an automation software) commands list.

The string inserted in the Parameters field has to come from your remote application/device list:

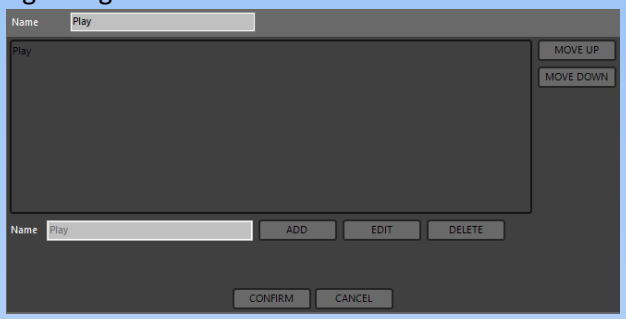


In this example the command was extracted by the command list of Axel YOUPLAY production software, as you can see below:

In this case the Play command will be sent to the YouPlay 1 at the 192.168.99.177 IP Adress through the 8090 port.

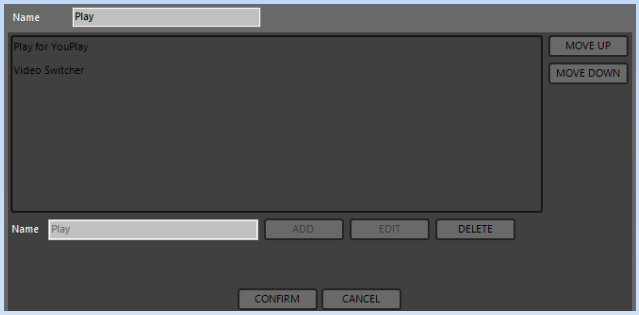
!!!ATTENTION!!!

- We suggest you to associate a single command to a single MACRO in the case of a single target device to be controlled



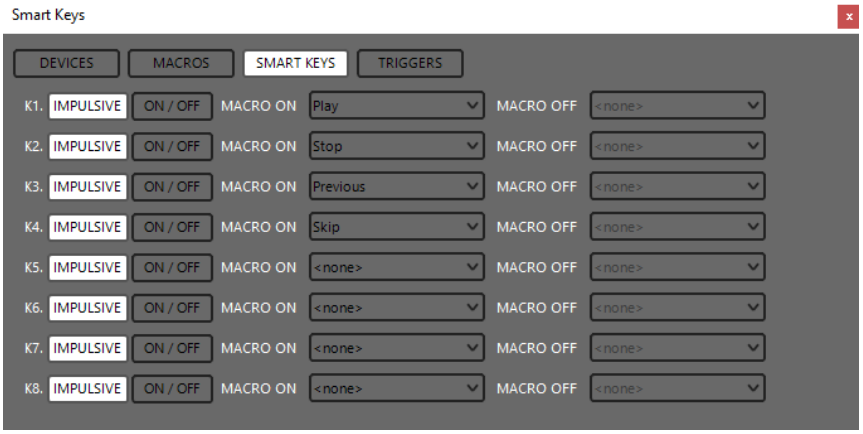
[SINGLE COMMAND → SINGLE TARGET DEVICE -→ SINGLE MACRO]
When the console sends the MACRO, only one command is forwarded to a single target.
In the example of the above picture, the Play macro sends only the Play command to one target device

- It would be very useful to associate multiple commands to a single MACRO in the case of mutiple and different target devices to be controlled by a single MACRO



[MULTIPLE COMMANDS → MULTIPLE TARGET DEVICE → SINGLE MACRO]
When the console sends the MACRO, each target device receives its own command.
*In the example of the above picture, the Play macro at the same time sends the command **Play to YoupPlay** to one target device (in this case the target is the YouPlay production software) and the command **Video Switcher** to a different target device (in this case the target is a remotely controllable Video Switcher)*

4. In **SMART KEYS** section you can assign one of the **MACROS** defined in the previous point to one of the 8 Smart Key Buttons (**K1, K2, K3, K4, K5, K6, K7, K8**)
    a. Select the desired **Smart Key** button to be used between the 8 availables
    b. Set MACRO ON and MACRO OFF (if this last is needed)
    c. Decide if the **Smart Key** button works in:
        - **IMPULSIVE** mode (SingleButtonPressure): only the MACRO set in **MACRO ON** parameter could be sent
        - **ON/OFF** mode (TwoButtonPressure – **ON** and **OFF**): you can assign 2 different MACROS (one for **MACRO ON** and the other for **MACRO OFF**). It is very useful for **START/STOP** purposes.



Once a Smart Key button is assigned, the related Smart Key color changes in the Oxygen Remoter HOME page and on the Oxygen 3000 surface. By pressing the defined Smart Key button you will be able to send the command to the defined target software / device.

The Smart Key could be used directly by **Oxygen3000 board** or by the **Oxygen Remoter** application.

To change the smart keys color go to the following path:

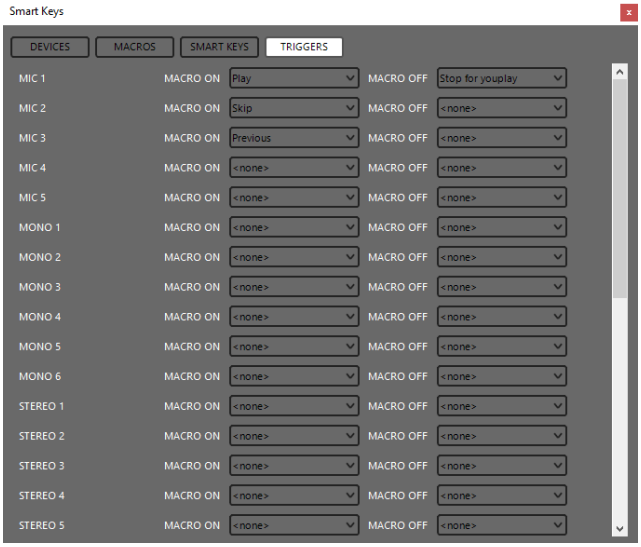
MENU / MAIN / GENERAL SET / SMART KEYS / BUTTON COLOR

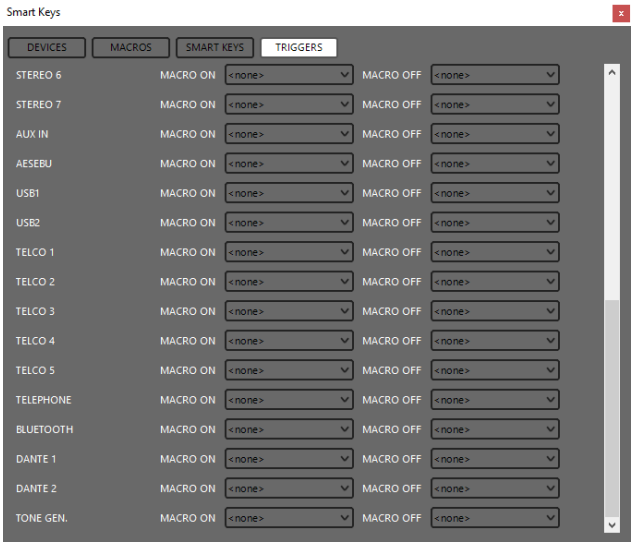
5. In **TRIGGERS** section you can **assign** one of the **MACROS** defined in point 3 to the desired slider and to related ON START in the **Oxygen 3000** channels board.
    a. Decide which **Oxygen3000 audio source** has to be connected with the desired command. Each **line** is related to a **specific audio source** readable by the left column.
    All the channels (**CH1, CH2…CH10**) in which you have set **the decided Oxygen3000 audio source** and in which is active the audio source (CHA or CHB) will be able to send the commands to the Remote Application by channel slider. Selectable audio sources are:

MIC 1, MIC 2, MIC 3, MIC 4, MIC 5, MONO 1, MONO 2, MONO 3, MONO 4, MONO 5, MONO 6,
STEREO 1, STEREO 2, STEREO 3, STEREO 4, STEREO 5, STEREO 6, STEREO 7, AUX IN,
AESEBU, USB1, USB2,
TELCO 1, TELCO 2, TELCO 3, TELCO 4, TELCO 5, TELEPHONE, BLUETOOTH,
DANTE 1, DANTE 2,
TONE GEN.

b. Decide what happens when you **rise-up the slider** and when you press the related ON/START (ON mode) button associated with that audio source in **MACRO ON** parameter.

c. Decide what happens when you **rise-down the slider** and when you press the related ON/START (OFF mode) button associated with that audio source in **MACRO OFF** parameter.





2.3.4. PC KEYBOARD SHORTCUTS ASSOCIATED TO THE SMART KEYS

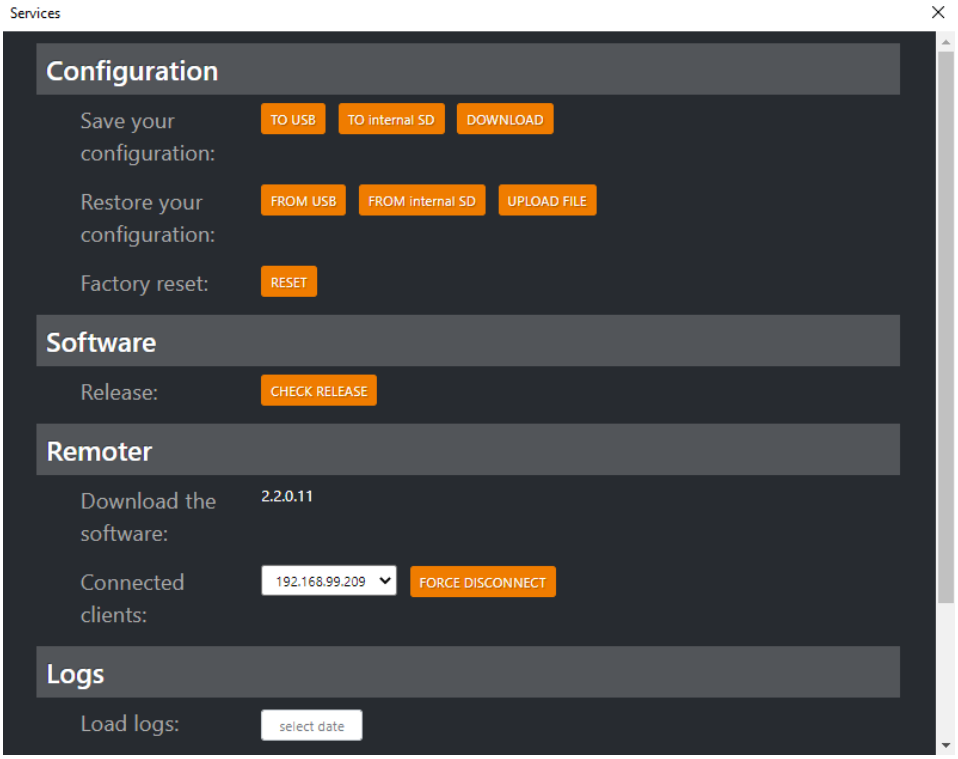
Each defined Smart Key is associated to a precise Keyboard Shortcut by default.

If the Smart Key was not defined, the related Keyboard Shortcut will not work.

Below the relations between Smart Keys and related Keyboard Shortcuts:

SMART KEY	***KEYBOARD SHORTCUT***
K1	Ctrl+F1
K2	**Ctrl+F2**
K3	Ctrl+F3
K4	**Ctrl+F4**
K5	Ctrl+F5
K6	**Ctrl+F6**
K7	Ctrl+F7
K8	**Ctrl+F8**

2.4. SERVICE



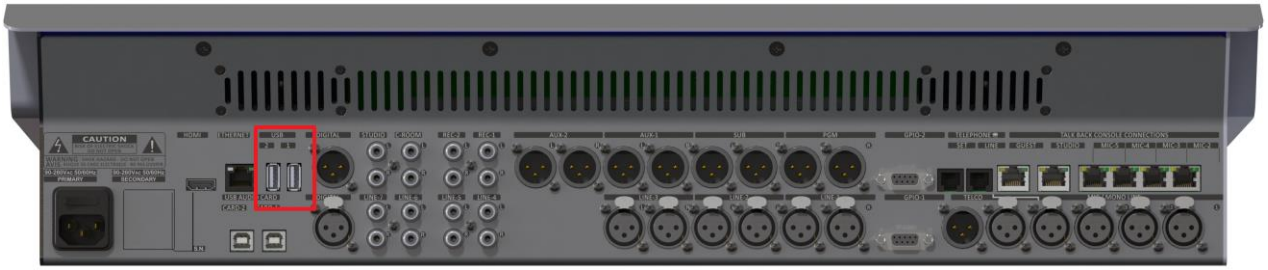
2.4.1 CONFIGURATION

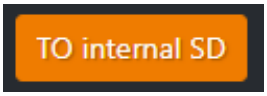
The first **Configuration** section allows you to:

- save the whole console configuration in all of its parameters
- restore the whole console configuration previously saved
- execute a factory reset on the console

2.4.1.1. SAVE YOUR CONFIGURATION

The configuration file will be saved into the plugged USB key. The USB are the ones squared in the following picture:



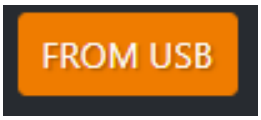


The configuration file will be saved into the console SD CARD.

The SD is the memory containing the console firmware.

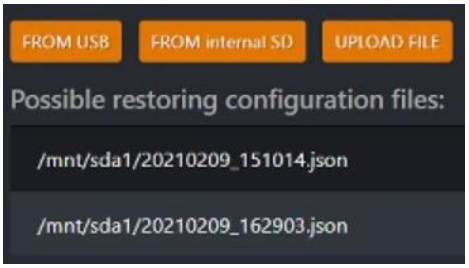
The configuration file will be saved locally in the current PC.

2.4.1.2. RESTORE YOUR CONFIGURATION



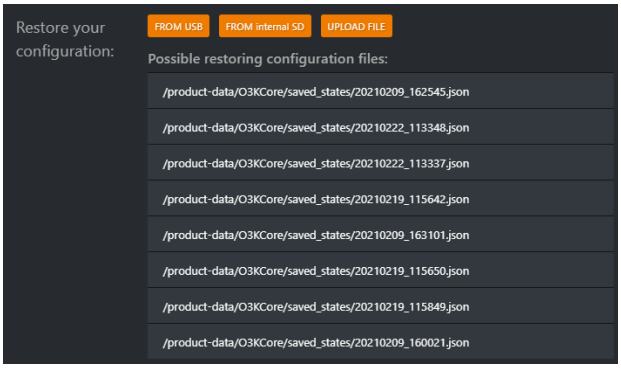
The console configuration will be restored from a configuration file saved into the plugged USB key. The USB ports are the ones squared in the following picture:

Select between the available .json configuration files:

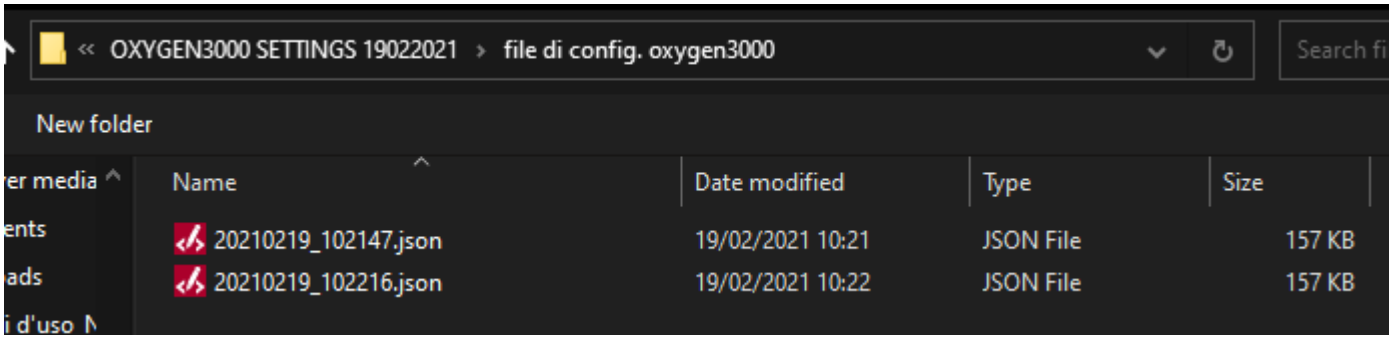


The configuration file will be restored from a configuration file saved into the console SD CARD.

Then select between the available .json configuration versions as shown by the following picture:



The console configuration will be restored by one of the configuration files previously saved into the local computer that you are currently use.



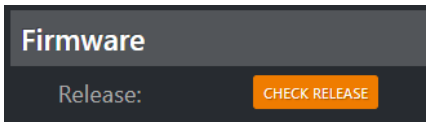
Between the available .json configuration files select the desired one.

2.4.1.3. EXECUTE A FACTORY RESET

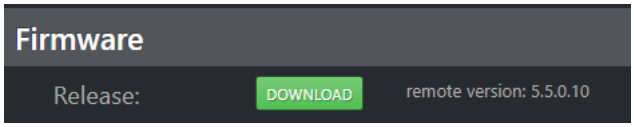
By pressing this button the console will be factory resetted.

2.4.2. FIRMWARE

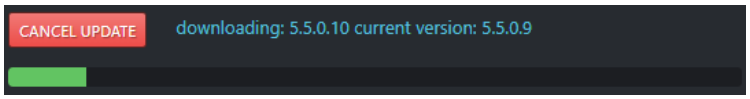
By this FIRMWARE section you can remotely update the **OXYGEN 3000** firmware version. To do that from the section



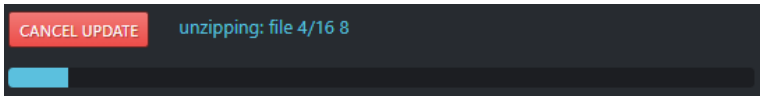
Press CHECK RELEASE and you will be able to read the firmware currently installed into the monitored **OXYGEN 3000** console:



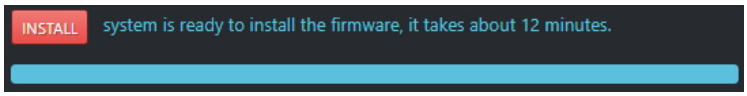
Press DOWNLOAD to latest available firmware version:



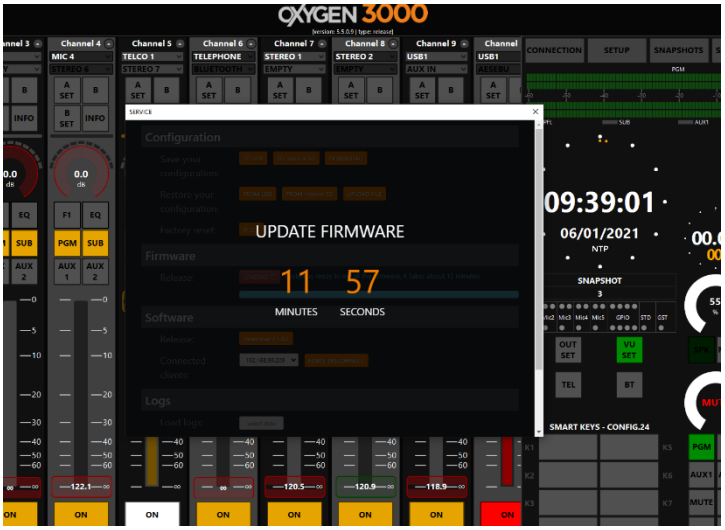
After the firmware download will be completed, you will see the progress bar of the file preparing process:



Press install to start the console upgdate:



An updating firmware countdown will start as shown by the following picture:



After the end of this cowntdown follow the LCD display instructions.

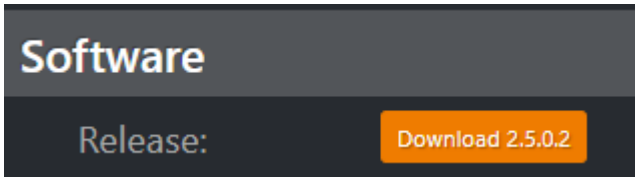
Press SHUTDOWN by the LCD display

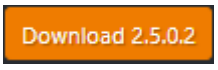
Reboot the console from the back panel power button.

2.4.3. SOFTWARE

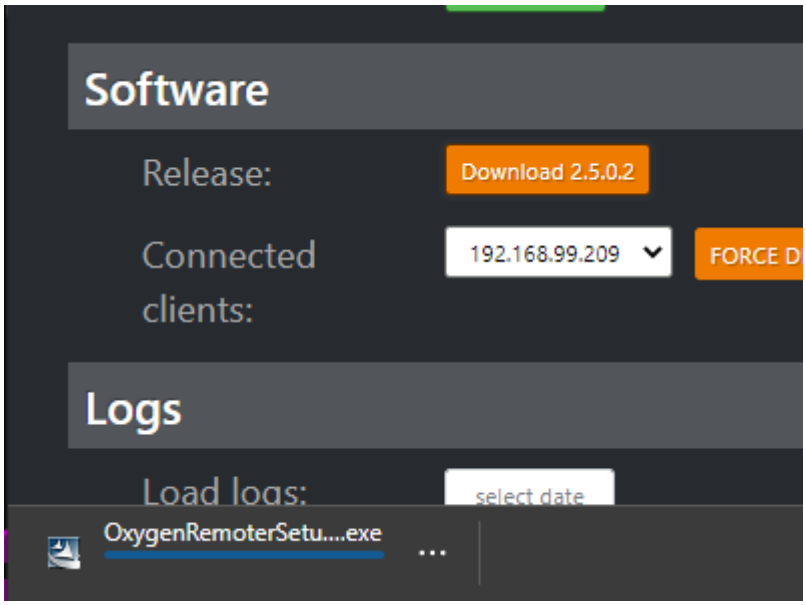
The **Software** section allows you to know if there is a new software version of the **Oxygen Remoter** to be downloaded.

By here you can read the latest available software version:

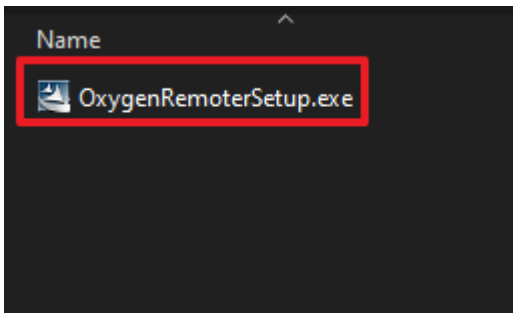


By pressing 

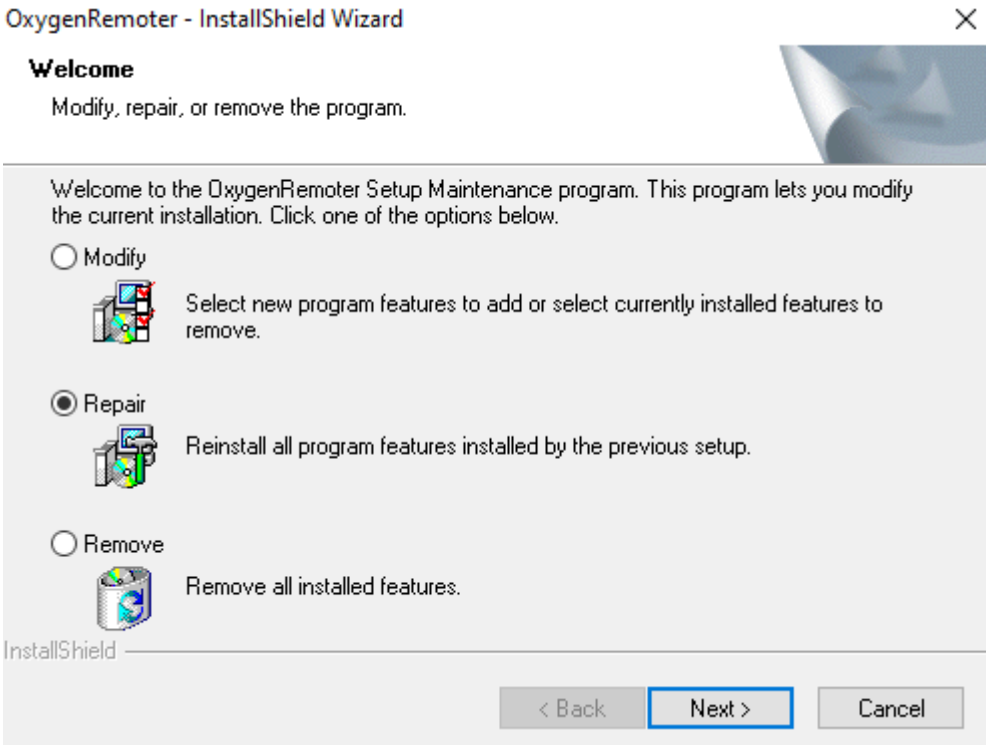
you will automatically start the downloading process for the **OxygenRemoter.exe** setup file, as shown you in the following picture:



Run the downloaded .exe installer:



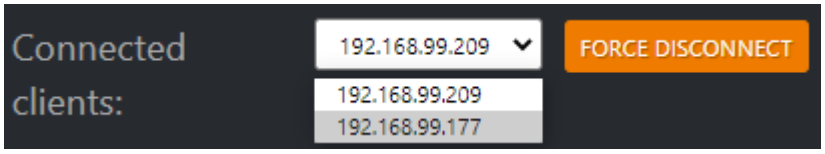
Select **REPAIR** as shown in the picture below:



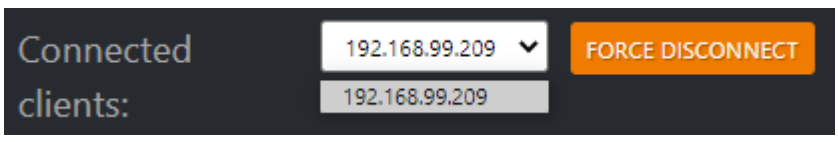
You can also proceed by downloading the latest **OxygenRemoter.exe** setup file from the following link:

https://www.axeltechnology.com/Public/OxygenRemoter/OxygenRemoterSetup.exe

By opening the following drop-down menu you can monitor which clients are currently connected to the same console by a different Oxygen Remoter session. In the following example you can see the 2 IP Addresses of the currently connected clients:



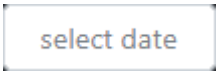
Select the client IP you want to disconnect and press

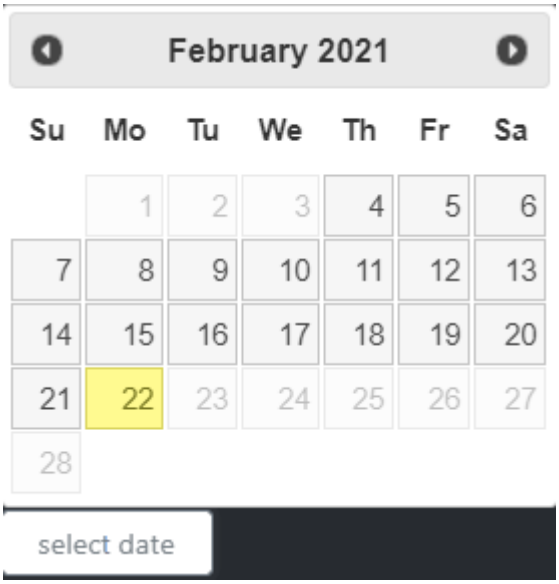


ATTENTION!!! Be careful not to ban yourself out by selecting your own client IP Address

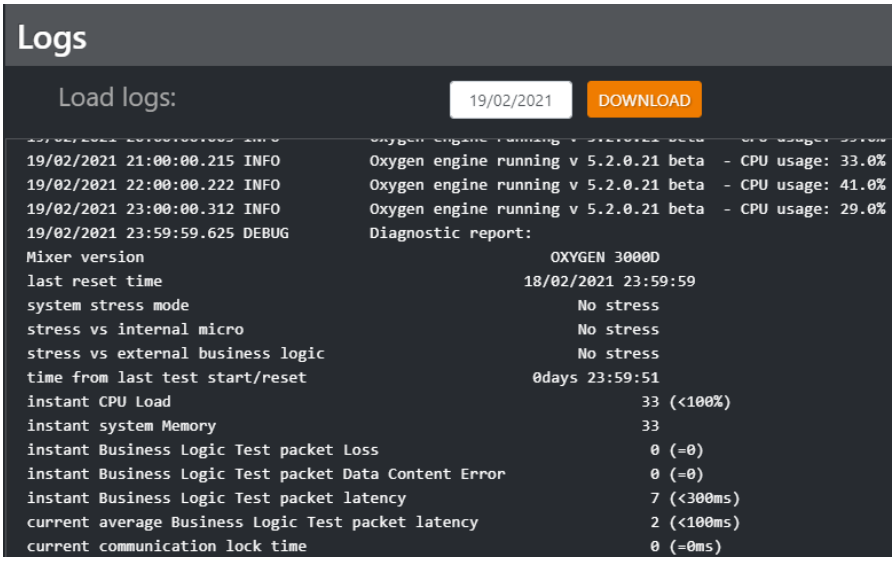
2.4.4. *LOGS*

The **Logs** section allows you to read and download the desired date of the console Log:

Press  to open the calendar:

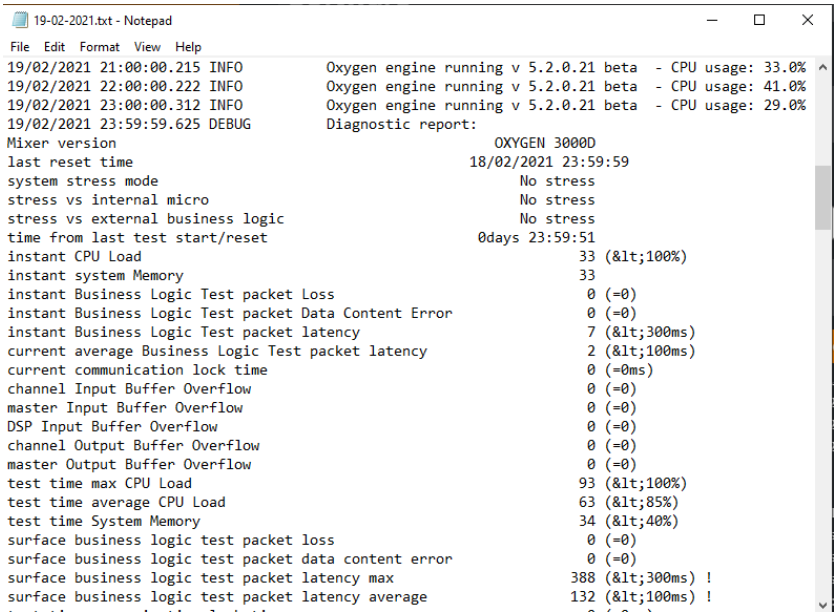


After the desired date selection you can easily read all the console Logs as shows by the following picture:



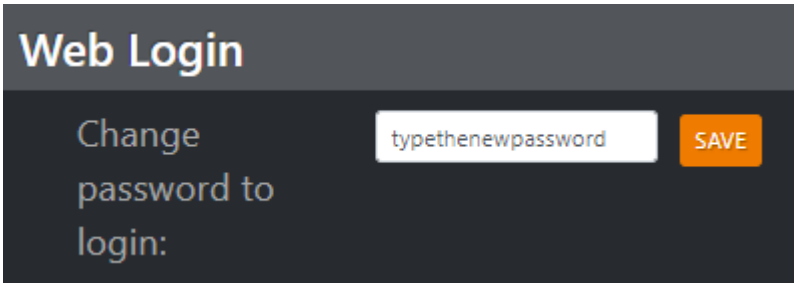
Press:

to export the Log File in .txt format:



2.4.5. WEB LOGIN

By this section you can change the Password for the OXYGEN REMOTER connection or to connect on the browser Web Page:



Type the new password in the fillable field and press

to confirm the change.