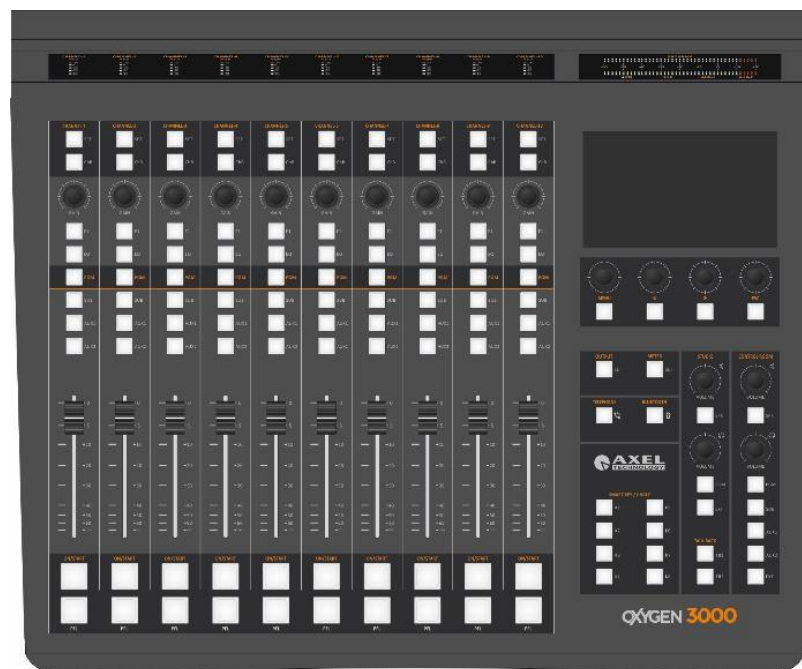




OXYGEN 3000

(Rev. 1.0 - ENG)

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1 INTRODUCTION



Oxygen 3000 is the new concept digital console and defines a new standard in the broadcast market.

Characterized by an elegant design and compact size, Oxygen 3000 has been designed for both On Air and Production studios.

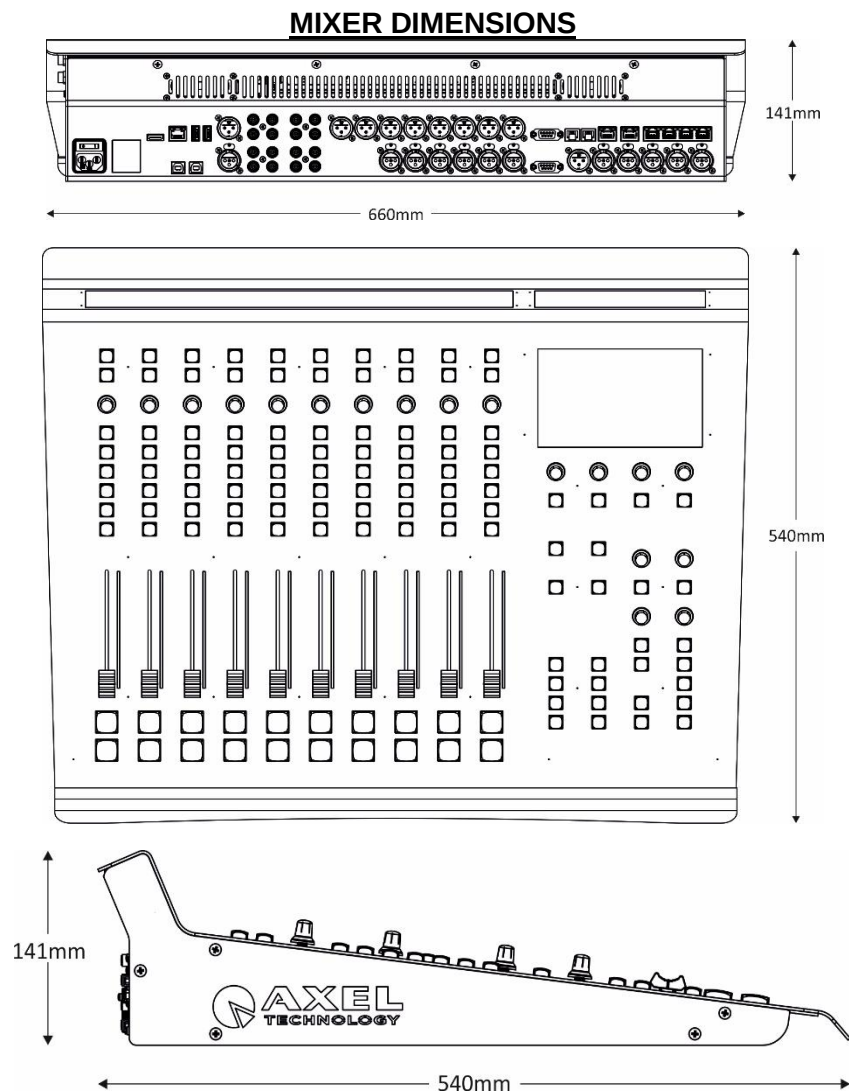
Oxygen 3000 is based on digital technology with DSP audio processing to deliver high-end quality, latest features and flexibility with ease of use.

Oxygen 3000 is the number 1 of the category at the best quality/price ratio.

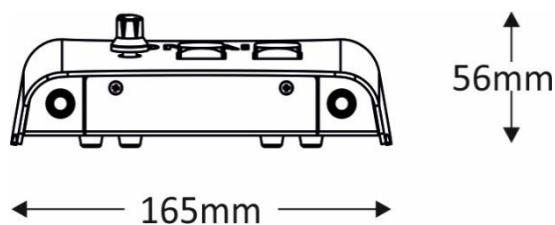
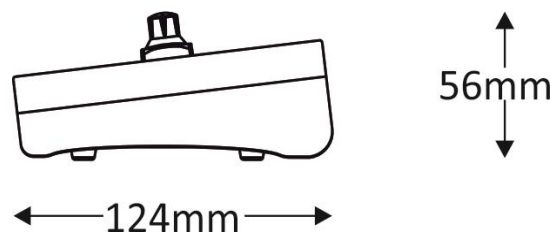
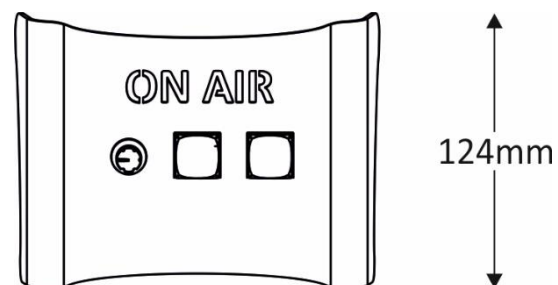
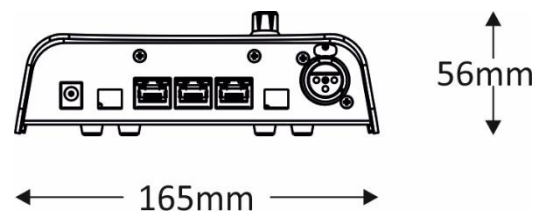
Oxygen 3000 is a powerful and compact unit featuring 10 faders, meters for each single channel, built-in 7" display for settings, wide range of connectivity and accessories in a rugged and classy steel chassis. Easy and reliable as the analogue mixing consoles,

Oxygen 3000 adds the value of the digital engine that grants a near 0 latency ($< 0,7$ ms I/O) and plenty of advanced functions as the the internal routing signal, customizable preset and easy recall, user defined smart keys, analog and digital I/O.

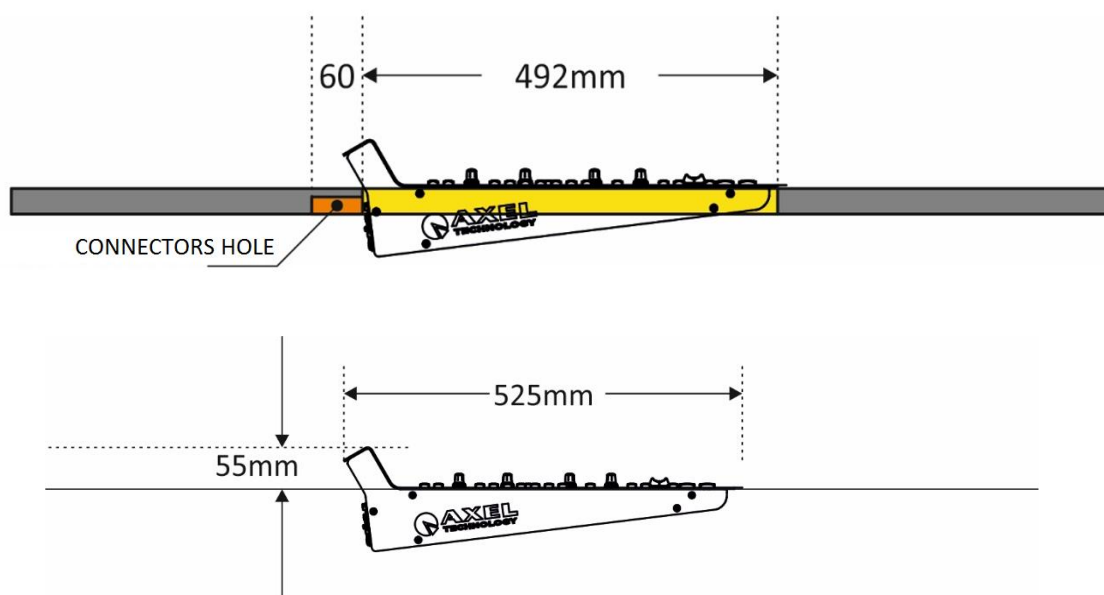
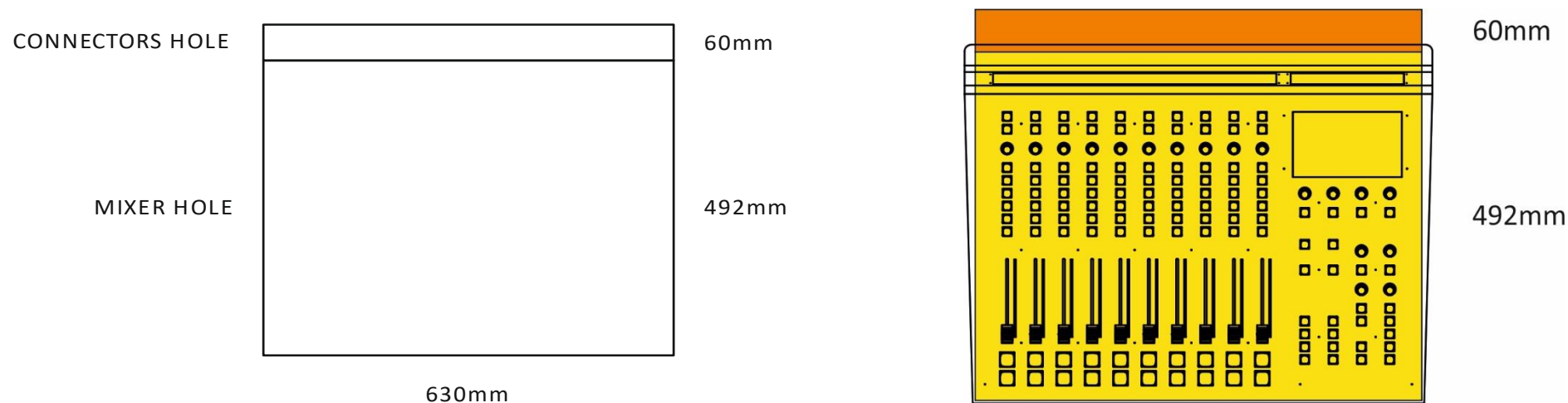
2 GENERAL DESCRIPTION



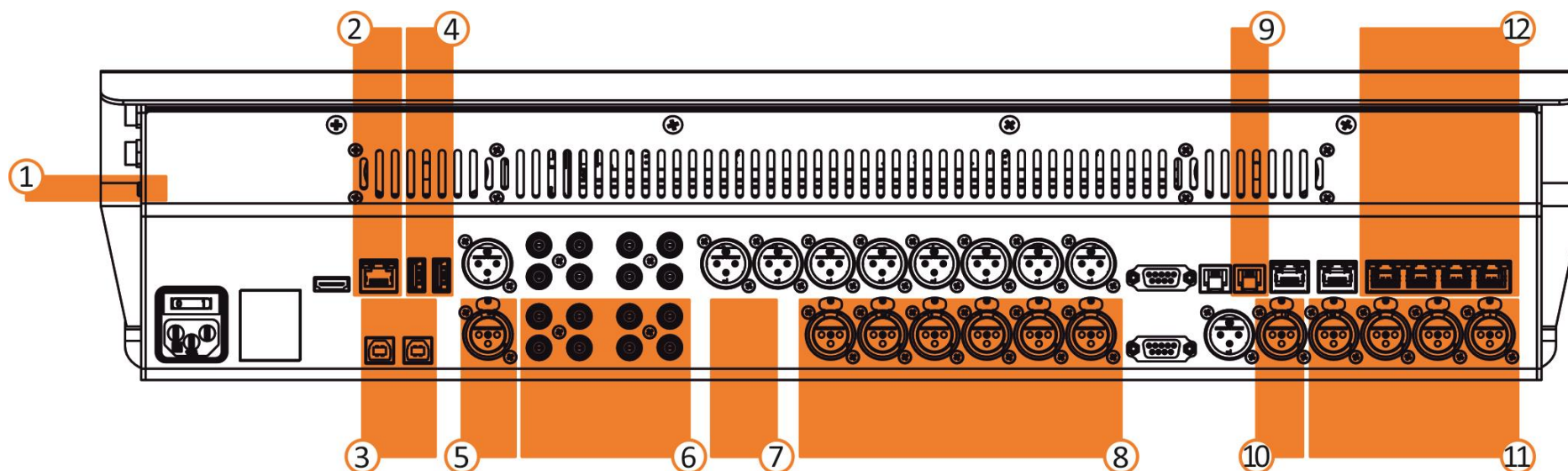
TALK BOX DIMENSIONS



CUTTING TEMPLATE

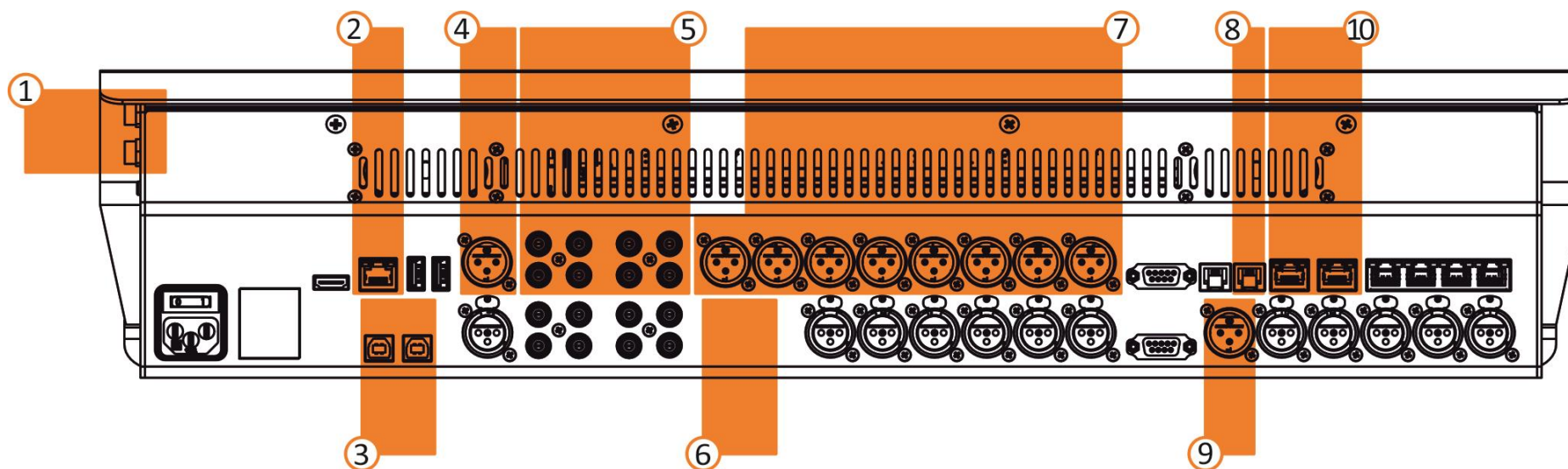


INPUT CONNECTIONS



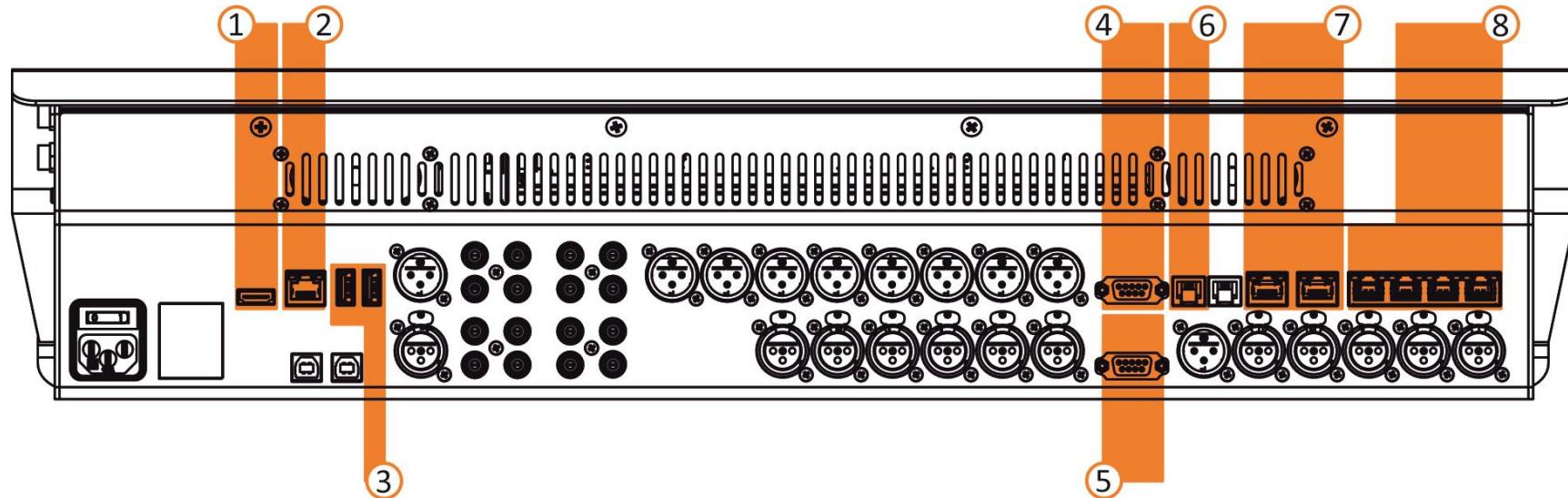
- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Aux-In
Stereo Input - Mini Jack 3.5mm - Ubalanced Audio Connection 2. Streaming Input
Stereo/Mono Input- RJ45 - Internet Connections 3. USB-1, USB-2
2 Audio Card Stereo Input- USB-TypeB - PC Connections 4. PLAYER-1, PLAYER-2
Internal MP3/WAV Player - USB-Storage (max 32GB) 5. Digital-In
AESEBU Stereo Input - XLR Female - Balanced Digital Connection (110Ω) 6. Line-4, Line 5, Line-6, Line-7(this is the EXT input for TUNER)
4 Stereo Input - PIN RCA - Ubalanced Audio Connection | <ol style="list-style-type: none"> 7. Bluetooth
Bluetooth Stereo/Mono Input - Wireless – Smartphone 8. Line-1, Line-2, Line-3
3 Stereo Input / 6 Mono - XLR Female - Balanced Audio Connection (50KΩ) 9. Telephone
Analog Telephone Line - RJ11 - PSTN Interface 10. Telco/Mic-5
Mono/Mic Input - XLR Female - Balanced Audio Connection (50KΩ). It works as a LINE input. To use it as a normal MIC you have to amplify the MIC of +16 dB. 11. Mic-1, Mic-2, Mic-3, Mic-4
4 Mic Input - XLR Female - Balanced Audio Connection (1K2Ω) 12. TBox-2, TBox-3, TBox-4, TBox-5
4 TalkBox Input - RJ45 (SFTP Cable) - Balanced Audio (Mic2/3/4/5 Input) |
|--|---|

OUTPUT CONNECTIONS



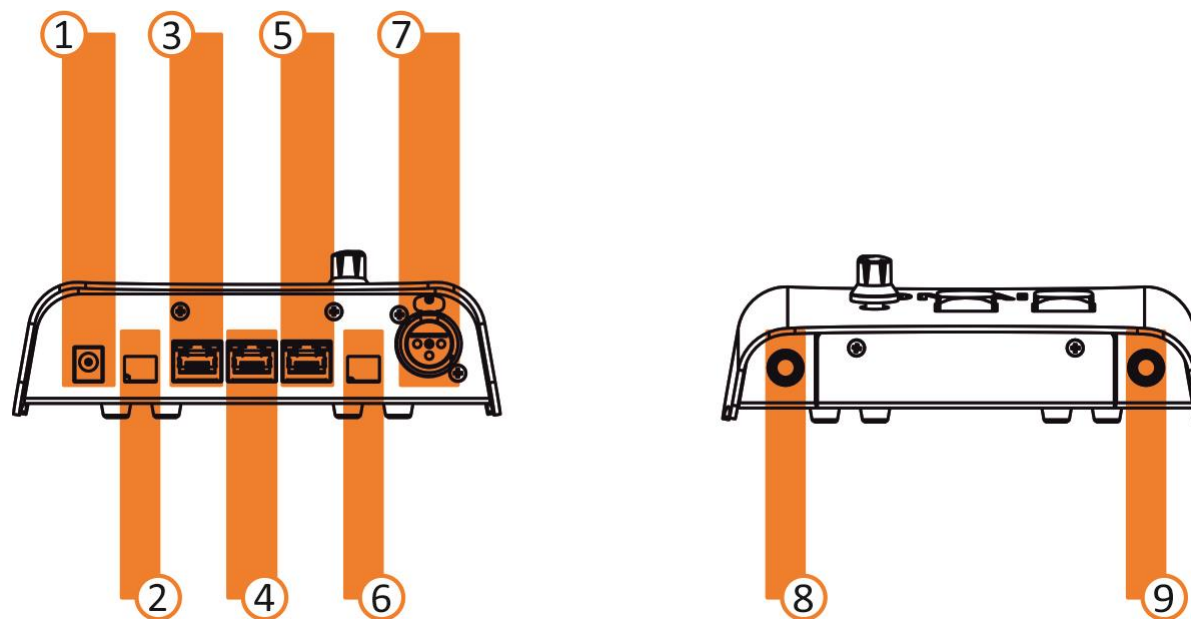
- | | |
|---|--|
| <p>1. Headphones C-Room and Headphones Studio
Stereo Output - Jack 6.3mm - Unbalanced Audio Connection (nominal 32Ω)</p> <p>2. Streaming Output
Stereo/Mono Output- RJ45 - Internet Connections</p> <p>3. USB-1, USB-2
2 USB Audio Card - USB-TypeB - PC Connections</p> <p>4. Digital Out
AES/EBU Stereo Output - XLR Male - Balanced Digital Connection (110Ω)</p> <p>5. REC-1, REC-2, SPK C-ROOM, SPK STUDIO
4 Stereo Output - PIN RCA - Unbalanced Audio Connection</p> | <p>6. Bluetooth
Bluetooth Stereo/Mono Output - Wireless – Smartphone</p> <p>7. PGM, SUB, AUX-1, AUX-2
4 Stereo Output - XLR Male - Balanced Audio Connection (47Ω)</p> <p>8. Telephone
Analog Telephone Line - RJ11 - PSTN Interface</p> <p>9. Telco
Mono Output - XLR Male - Balanced Audio Connection (47Ω)</p> <p>10. HDP-STUDIO, HDP-GUEST
TalkBox Output - RJ45 (SFTP Cable)- Balanced Audio (Studio & Guest Headphone)</p> |
|---|--|

COMMUNICATION CONNECTIONS



- | | |
|--|---|
| <ol style="list-style-type: none"> 1. HDMI Output
Standard HDMI Female Connector - External Monitor 2. Ethernet
RJ45 Female Connector - Remote control 3. USB-1, USB-2
USB Type A Female Connectors - External USB Devices 4. GPIO-2
SUB-D 9p Female - 2 GPI + 2 GPO | <ol style="list-style-type: none"> 5. GPIO-1
SUB-D 9p Female - 2 GPI + 2 GPO 6. Tel Set
RJ11 (PSTN Interface) 7. TBox-HDP-STUDIO, TBox-HDP-GUEST
2 RJ45 (SFTP Cable) - n° 1 GPO Connection 8. TBox-MIC-2, TBox-MIC-3, TBox-MIC-4, TBox-MIC-5
4 RJ45 (SFTP Cable) - n° 2 GPI Connections + n° 1 GPO Connection |
|--|---|

TALK BOX CONNECTIONS



- | | |
|---|---|
| 1. Power Supply
12VDC 1A | 6. Mic Light
Screw Connector - (12VDC output) |
| 2. Studio Light
Screw Connector - (12VDC output) | 7. Mic Input
XLR Female Connector |
| 3. HDP Output
RJ45 Connectors (SFTP) - (Passive Loop Output) | 8. HDP-1-TBox
Jack 6.3mm Female Connector - (Min. Imp. 32Ω) |
| 4. HDP Input
RJ45 Connectors (SFTP) | 9. HDP-2-TBox
Jack 6.3mm Female Connector - (Min. Imp. 32Ω) |
| 5. TalkBox Connection
RJ45 Connectors (SFTP) - (Passive Loop Output) | |

3 SAFETY WARNINGS/ISTRUZIONI PER LA SICUREZZA

SAFETY WARNINGS

CONSIGNES DE SÉCURITÉ IMPORTANTES

ISTRUZIONI IMPORTANTI PER LA SICUREZZA

WICHTIGE SICHERHEITSHINWEISE

INSTRUCCIONES IMPORTANTES DE SEGURIDAD

(Rel. 1.6)

3.1 PREFACE

For your safety and to prevent the warranty from being accidentally invalidated, please read carefully all the texts marked with the Warning Symbols



The information contained in this manual is subject to change without notice and does not constitute a commitment by the seller.

The manufacturer will not be liable for any loss or damage resulting from the use of information or any errors contained in this manual or resulting from any erroneous operation or hardware failure contained in the product.

It is recommended that any repair and maintenance of the product be carried out by the manufacturer or its authorized agents. The manufacturer assumes no responsibility for any loss or damage caused by service, maintenance, or repair by unauthorized personnel.

3.2 SAFETY WARNINGS

The installation and servicing instructions in this manual are for use by qualified personnel only.

Read All Instructions. All safety and operating instructions must be read before operating the product. They also must be retained for future reference, as it contains a number of useful hints for determining the best combination of equipment settings for Yr particular application.

Heed All Warnings. All warnings on the product and those listed in the operating instructions must be adhered to.

Heat. This product must be situated away from any heat sources such as radiators or other products (including power amplifiers or transmitters) that produce heat.

Power Sources. This product must be operated from the type of power source indicated on the marking label and in the installation instructions. If you are not sure of the type of power supplied to your facility, consult your local power company. Make sure the AC main voltage corresponds to that indicated in the technical specifications. If a different voltage (ex. 110/115 VAC) is available, open the equipment closure and set the voltage switch on the main supply circuit, located behind the AC socket

Power Cord Protection. Power supply cords must be routed so that they are not likely to be walked on nor pinched by items placed upon or against them. Pay particular attention to the

cords at AC wall plugs and convenience receptacles, and at the point where the cord plugs into the product

Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Lightning. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the AC wall outlet and the audio connections. This will prevent damage to the product due to lightning and power line surges

Installation. Configuration and installation should only be carried out by a competent installation engineer

Cabling. Using high quality wires, well protected. Make sure the cable integrity.



This symbol alerts you to the presence of dangerous voltage inside the closure – voltage which may be sufficient to constitute a risk of shock. Do not perform any servicing other than that contained in the operating instructions. Refer all servicing to qualified personnel



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Do not change the voltage setting or replace the mains fuse without first turning the unit off and unplugging the mains cord



Make sure the AC main voltage corresponds to that indicated in the technical specifications.

THIS APPARATUS MUST BE EARTHED !



To avoid risk of fire use the correct value fuse, as indicated on the label stuck on the right side of the unit.



This apparatus uses a single pole mains switch and does therefore not separate the unit completely from the mains power. To completely separate from mains power (f.i. in the event of danger) unplug mains power cord. As the MAINS plug is the disconnect device, the disconnect device shall remain readily operable.

3.3 CONSIGNES DE SÉCURITÉ IMPORTANTES

Lire ces consignes

Conserver ces consignes

Observer tous les avertissements

Suivre toutes les consignes

Ne pas utiliser cet appareil à proximité de l'eau

Ne pas obstruer les ouvertures de ventilation. Installer en respectant les consignes du fabricant

Ne pas installer à proximité d'une source de chaleur telle qu'un radiateur, une bouche de chaleur, un poêle ou d'autres appareils (dont les amplificateurs) produisant de la chaleur.

Ne pas annuler la sécurité de la fiche de terre, la troisième branche est destinée à la sécurité. Si la fiche fournie ne s'adapte pas à la prise électrique, demander à un électricien de remplacer la prise hors normes.

Protéger le cordon d'alimentation afin que personne ne marche dessus et que rien ne le pince, en particulier aux fiches, aux prises de courant et au point de sortie de l'appareil

Utiliser uniquement les accessoires spécifiés par le fabricant

Utiliser uniquement avec un chariot, un support ou une table spécifié par le fabricant ou vendu avec l'appareil. Si un chariot est utilisé, déplacer l'ensemble chariot–appareil avec précaution afin de ne pas le renverser, ce qui pourrait entraîner des blessures

Débrancher l'appareil pendant les orages ou quand il ne sera pas utilisé pendant longtemps.

Confier toute réparation à du personnel qualifié. Des réparations sont nécessaires si l'appareil est endommagé d'une façon quelconque, par exemple: cordon ou prise d'alimentation endommagé, liquide renversé ou objet tombé à l'intérieur de l'appareil, exposition de l'appareil à la pluie ou à l'humidité, appareil qui ne marche pas normalement ou que l'on a fait tomber.

NE PAS exposer cet appareil aux égouttures et aux éclabousses. Ne pas poser des objets contenant de l'eau, comme des vases, sur l'appareil



Ce symbole indique la présence d'une tension dangereuse dans l'appareil constituant un risque de choc électrique.



Ce symbole indique que la documentation fournie avec l'appareil contient des instructions d'utilisation et d'entretien importantes.



Avant de modifier le commutateur de changement de tension ou remplacer le fusible il faut débrancher l'appareil de la prise électrique. Pendant son usage, l'appareil doit être branché à la prise de terre



Utiliser le fusible principal AC avec la valeur qui est indiquée sur l'étiquette collée sur le coffret.



Assurez-vous que la tension principale AC correspond à celle indiquée dans les spécifications techniques.



L'interrupteur d'alimentation interrompt un pôle du réseau d'alimentation excepté le conducteur de terre de protection. En cas de danger, débrancher le cordon d'alimentation. Parce que la prise du réseau de alimentation est utilisée comme dispositif de déconnexion, ce dispositif doit demeurer aisément accessible

3.4 ISTRUZIONI IMPORTANTI PER LA SICUREZZA

Leggere le presenti istruzioni

Conservare queste istruzioni

Osservare tutte le avvertenze

Seguire scrupolosamente tutte le istruzioni

Non usare questo apparecchio in prossimità di acqua

Non ostruire alcuna apertura per il raffreddamento. Installare l'apparecchio seguendo le istruzioni

Non installare l'apparecchio accanto a fonti di calore quali radiatori, aperture per l'afflusso di aria calda, forni o altri apparecchi (amplificatori inclusi) che generino calore

Non rimuovere il terminale di connessione a terra sul cordone di alimentazione: esso ha lo scopo di tutelare l'incolumità dell'utilizzatore. Se la spina in dotazione non si adatta alla presa di corrente, rivolgersi ad un elettricista per far eseguire le modifiche necessarie.

Evitare di calpestare il cavo di alimentazione o di comprimerlo, specialmente in corrispondenza della spina e del punto di inserzione sull'apparato.

Utilizzare solo dispositivi di collegamento e gli accessori specificati dal produttore.

Utilizzare l'apparecchio solo con un carrello, un sostegno, una staffa o un tavolo di tipo specificato dal produttore o venduto insieme all'apparecchio. Se si utilizza un carrello, fare attenzione negli spostamenti per evitare infortuni causati da ribaltamenti del carrello stesso.

Scollegare l'apparecchio dalla presa di corrente durante i temporali o quando inutilizzato a lungo

Per qualsiasi intervento, rivolgersi a personale di assistenza qualificato. È necessario intervenire sull'apparecchio ogniqualvolta si verificano danneggiamenti di qualsiasi natura. Ad esempio, la spina o il cavo di alimentazione sono danneggiati, è entrato liquido nell'apparecchio o sono caduti oggetti su di esso, l'apparecchio è stato esposto alla pioggia o all'umidità, non funziona normalmente o è caduto.

Non esporre a sgocciolamenti o spruzzi. Non appoggiare sull'apparecchio oggetti pieni di liquidi, ad esempio vasi da fiori.



Questo simbolo indica la presenza di alta tensione all'interno dell'apparecchio, che comporta rischi di scossa elettrica.



Questo simbolo indica la presenza di istruzioni importanti per l'uso e la manutenzione nella documentazione in dotazione all'apparecchio.



Non sostituire il fusibile o cambiare la tensione di alimentazione senza aver prima scollegato il cordone di alimentazione. L'APPARATO DEVE ESSERE CONNESSO A TERRA.



Sostituire il fusibile generale con uno di identico valore, come indicato sulla etichetta applicata sul mobile dell'apparato



Assicurarsi che la tensione di rete corrisponda a quella per la quale è configurato l'apparecchio



Questo apparato utilizza un interruttore di alimentazione di tipo unipolare e l'isolamento dalla rete elettrica non è pertanto completo. Per ottenere un isolamento totale (ad esempio in caso di pericolo), scollegare il cordone di alimentazione. Inoltre, poichè la spina di alimentazione è utilizzata come dispositivo di sezionamento, essa deve restare facilmente raggiungibile

3.5 WICHTIGE SICHERHEITSHINWEISE

Diese Hinweise LESEN

Diese Hinweise AUFHEBEN

Alle Warnhinweise BEACHTEN

Alle Anweisungen BEFOLGEN

Dieses Gerät NICHT in der Nähe von Wasser verwenden

KEINE Lüftungsöffnungen verdecken. Gemäß den Anweisungen des Herstellers einbauen

Nicht in der Nähe von Wärmequellen, wie Heizkörpern, Raumheizungen, Herden oder anderen Geräten (einschließlich Verstärkern) installieren, die Wärme erzeugen

Die Schutzfunktion des Schukosteckers NICHT umgehen. Bei Steckern für die USA gibt es polarisierte Stecker, bei denen ein Leiter breiter als der andere ist; US-Stecker mit Erdung verfügen über einen dritten Schutzleiter. Bei diesen Steckerausführungen dient der breitere Leiter bzw. der Schutzleiter Ihrer Sicherheit. Wenn der mitgelieferte Stecker nicht in die Steckdose passt, einen Elektriker mit dem Austauschen der veralteten Steckdose beauftragen

VERHINDERN, dass das Netzkabel gequetscht oder darauf getreten wird, insbesondere im Bereich der Stecker, Netzsteckdosen und an der Austrittsstelle vom Gerät

NUR das vom Hersteller angegebene Zubehör und entsprechende Zusatzgeräte verwenden.

NUR in Verbindung mit einem vom Hersteller angegebenen oder mit dem Gerät verkauften Transportwagen, Stand, Stativ, Träger oder Tisch verwenden. Wenn ein Transportwagen verwendet wird, beim Verschieben der Transportwagen-Geräte- Einheit vorsichtig vorgehen, um Verletzungen durch Umkippen

Das Netzkabel dieses Geräts während Gewittern oder bei längeren Stillstandszeiten aus der Steckdose ABZIEHEN.

Alle Reparatur- und Wartungsarbeiten von qualifiziertem Kundendienstpersonal DURCHFÜHREN LASSEN. Kundendienst ist erforderlich, wenn das Gerät auf irgendeine Weise beschädigt wurde, z.B. wenn das Netzkabel oder der Netzstecker beschädigt wurden, wenn Flüssigkeiten in das Gerät verschüttet wurden oder Fremdkörper hineinfließen, wenn das Gerät Regen oder Feuchtigkeit ausgesetzt war, nicht normal funktioniert oder fallen gelassen wurde.

Dieses Gerät vor Tropf- und Spritzwasser SCHÜTZEN. KEINE mit Wasser gefüllten Gegenstände wie zum Beispiel Vasen auf das Gerät STELLEN.



Dieses Symbol zeigt an, dass gefährliche Spannungswerte, die ein Stromschlagrisiko darstellen, innerhalb dieses Geräts auftreten.



Dieses Symbol zeigt an, dass das diesem Gerät beiliegende Handbuch wichtige Betriebs- und Wartungsanweisungen enthält.



**Vor Änderung der Netzspannung oder Sicherungswechsel Netzkabel trennen.
Das Gerät muss für den Betrieb geerdet werden.**



**Hauptsicherung nur mit einer gleichwertigen austauschen
(s. entsprechende Etikette).**



Vor Einschalten Netzspannungseinstellung am Gerät überprüfen bzw. anpassen.



Inpoliger Netzschalter. In Notfälle oder für Wartungsarbeiten Netzkabel trennen. Der Netzstecker fungiert auch als Trennelement muss deshalb zugänglich bleiben

3.6 INSTRUCCIONES IMPORTANTES DE SEGURIDAD

LEA estas instrucciones

CONSERVE estas instrucciones

PRESTE ATENCION a todas las advertencias.

SIGA todas las instrucciones

NO utilice este aparato cerca del agua

NO obstruya ninguna de las aberturas de ventilación. Instálese según lo indicado en las instrucciones del fabricante

No instale el aparato cerca de fuentes de calor tales como radiadores, registros de calefacción, estufas u otros aparatos (incluyendo amplificadores) que produzcan calor

NO anule la función de seguridad del enchufe polarizado o con clavija de puesta a tierra. Un enchufe polarizado tiene dos patas, una más ancha que la otra. Un enchufe con puesta a tierra tiene dos patas y una tercera clavija con puesta a tierra. La pata más ancha o la tercera clavija se proporciona para su seguridad. Si el toma corriente no es del tipo apropiado para el enchufe, consulte a un electricista para que sustituya el toma corriente de estilo anticuado

PROTEJA el cable eléctrico para evitar que personas lo pisen o estrujen, particularmente en sus enchufes, en los toma corrientes y en el punto en el cual sale del aparato

UTILICE únicamente los accesorios especificados por el fabricante

UTILICESE únicamente con un carro, pedestal, escuadra o mesa del tipo especificado por el fabricante o vendido con el aparato. Si se usa un carro, el mismo debe moverse con sumo cuidado para evitar que se vuelque con el aparato

DESENCHUFE el aparato durante las tormentas eléctricas, o si no va a ser utilizado por un lapso prolongado.

TODA reparación debe ser llevada a cabo por técnicos calificados. El aparato requiere reparación si ha sufrido cualquier tipo de daño, incluyendo los daños al cordón o enchufe eléctrico, si se derrama líquido sobre el aparato o si caen objetos en su interior, si ha sido expuesto a la lluvia o la humedad, si no funciona de modo normal, o si se ha caído.

NO exponga este aparato a chorros o salpicaduras de líquidos. NO coloque objetos llenos con líquido, tales como floreros, sobre el aparato .



Este símbolo indica que la unidad contiene niveles de voltaje peligrosos que representan un riesgo de choques eléctricos.



Este símbolo indica que la literatura que acompaña a esta unidad contiene instrucciones importantes de funcionamiento y mantenimiento.



Antes de cambiar la alimentación de voltaje o de cambiar el fusible, desconecte el cable de alimentación. Para reducir el riesgo de descargas eléctricas, esta unidad debe ser conectada a tierra.



Remplaze el fusible con lo mismo, que corresponde a lo indicado en el panel del equipo.



Antes de encender, controlar que la línea de alimentación de voltaje corresponda a la indicada



El interruptor de alimentación es unipolar. En el caso de peligro, desconecte el cable de alimentación. Porque la clavija de conexión a red sirve por la desconexión de la unidad, la clavija debe ser ubicada en proximidad de la unidad

4 UNPACKING AND INSPECTION

Your equipment was packed carefully at the factory in a container designed to protect the unit during shipment. Nevertheless, we recommend making a careful inspection of the shipping carton and the contents for any signs of physical damage.

Damage & Claims

If damage is evident, do not discard the container or packing material. Contact your carrier immediately to file a claim for damages. Customarily, the carrier requires you, the consignee, to make all damage claims. It will be helpful to retain the shipping documents and the waybill number.

Save all packing materials! If You should ever have to ship the unit (e.g. for servicing), it is best to ship it in the original carton with its packing materials because both the carton and packing material have been carefully designed to protect the unit.

Under normal conditions no user maintenance or calibration are required. Internal links and preset controls may be set to configure the unit during installation. Any service work required should be carried out by qualified service personnel only. We are able to offer further product support through our worldwide network of approved dealers and service agents.

To help us provide the most efficient service please would you keep a record of the unit serial number, and date and place of purchase to be quoted in any communication regarding this product.

The actual equipment Serial Number is indicated on the silver label stuck on the rear panel of the equipment closure.



Tools And Equipment Needed

Only standard technician's tools are required to install this equipment.

5 FIRST INSTALLATION RECOMMENDATIONS

5.1 POWER SUPPLY CABLE

A power supply cable of approx. 2 mt length is supplied with the device, which has a moulded IEC plug attached – this is a legal requirement. The type of plug for the power supply depends on the country in which it is delivered.

If for any reason, you need to use this appliance with a different plug, you should use the following wiring guidelines in replacing the existing plug with the new one:

Earth	Green, or green and yellow
Neutral (N)	Blue
Live (L)	Brown

Supply cables should be laid in such a manner that one does not step or walk on them. They should not be squashed by any objects.

THIS EQUIPMENT MUST BE EARTHED.

The chassis is always connected to mains earth to ensure your safety: check your mains wiring and earthing before switching on.

5.2 PROTECTION AGAINST LIGHTNING



Should the device be put out of action due to being struck by lightning or excess voltage, disconnect it from the power supply without delay. Do not reconnect until the device has been checked. If in doubt contact the technical support service.

Make sure there is suitable lightning protection to protect the device. Alternatively you should disconnect all connectors from the device during a storm or when the device is going to be unsupervised or not used for a longer period of time.

These measures will protect against damage by lightning or excess voltage.

6 OXYGEN 3000 INSTALLATION NOTE AND FIRST STEP

Best setup location

The Oxygen 3000 should be installed avoiding direct sunlight, close proximity to radiators and air conditioning, dust, water, and chemicals. Choose a console location that permits a clear view to the indicators on the device and ensure a sufficient heat dissipation of the device.

Power supply

The device is designed for operation with 100 to 240 V AC, 50 Hz to 60 Hz. Check the corresponding device labelling for compatibility to the domestic line voltage and frequency before connecting the IEC power connector to the mains supply!



WARNING

Disconnect mains power plug before you open the housing. Repair of the equipment must only be carried out by authorized and qualified personnel.

1	<i>Power Supply</i>	Please make sure that the device and the contained fuse(s) (please see p. 20) are compatible to the domestic line voltage and frequency. If the device is compatible, connect the power supply cord fully to the IEC power connector at the rear side of the device and a mains power outlet. The "LCD Screed" will then turn on.
2	<i>Network configuration</i>	For delivery, the device is configured with default settings for the first connection via the IP interface.

		Wolf 2MS have a display, so you can configure the IP settings right now: See step “LAN-1 PAGE FUNCTIONALITY (HOW TO SET THE TCP/IP ETH-1)”
3	<i>Connect to network</i>	Connect a network patch cable to the “10/100-Base-T” connector on the rear side of the device and your existing IP network.
4	<i>Web interface</i>	The device can be fully operated with an internet browser via the integrated web interface. Use a computer that is connected to the same IP network that the Wolf 2MS device is connected to. Start an internet browser, Firefox/Mozilla >V2.0 Google Chrome both with Java Script activated and enter the configured IP address in the address bar of the browser. If the IP address has not been changed in step 2, please enter the default address in the address bar of the browser: 192.168.XXX.XXX.
5	<i>Connect FM antenna cable to each Tuner-1 and Tuner-2</i>	Now connect the antenna cable to Wolf 2MS. There are two separate BNC inputs, please provide a correct level of RF signal to the equipment. See in the technical specs the RF level range.
6	<i>Ready!</i>	These first steps are only intended for a quick first start and do not cover all device functions. Please read carefully the entire manual to be able to use all functions of the device.
7	<i>Important note on the Username and password</i>	The equipment comes out from Axel Technology with a standard username: admin and password: admin Each time a NEW user, with administration rights is created, the user <i>admin</i> disappear and it is replaced by the new one just created. If all users are deleted, the standard admin – admin comes out again

7 WEEE DIRECTIVE – INFORMATIVA RAEE



In line with EU Directive 2002/96/EC for waste electrical and electronic equipment (WEEE), this electrical product must not be disposed of as unsorted municipal waste. Please dispose of this product by returning it to the point of sale or to your local municipal collection point for recycling.

In Übereinstimmung mit der Richtlinie 2002/96/EG des Europäischen Parlaments und des Rates über Elektro- und Elektronik-Altgeräte (WEEE) darf dieses Elektrogerät nicht im normalen Hausmüll oder dem Gelben Sack entsorgt werden. Wenn Sie dieses Produkt entsorgen möchten, bringen Sie es bitte zur Verkaufsstelle zurück oder zum Recycling-Sammelpunkt Ihrer Gemeinde.

Conformément à la Directive 2002/96/EC sur les déchets d'équipements électriques et électroniques (DEEE), ce produit électrique ne doit en aucun cas être mis au rebut sous forme de déchet municipal non trié. Veuillez vous débarrasser de ce produit en le renvoyant à son point de vente ou au point de ramassage local dans votre municipalité, à des fins de recyclage.

In navolging van richtlijn 2002/96/EG van het Europees Parlement en de Raad betreffende afgedankte elektrische en elektronische apparatuur (AEEA) mag dit elektrische product niet als ongescheiden huisvuil worden weggedaan. Breng dit product terug naar de plaats van aankoop of naar het gemeentelijke afvalinzamelingspunt voor recycling.

In ottemperanza alla Direttiva UE 2002/96/EC sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE), questo prodotto elettrico non deve essere smaltito come rifiuto municipale misto. Si prega di smaltire il prodotto riportandolo al punto vendita o al punto di raccolta municipale locale per un opportuno riciclaggio.

De conformidad con la Directiva 2002/96/CE de la UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), este producto eléctrico no puede desecharse con el resto de residuos no clasificados. Deshágase de este producto devolviéndolo al punto de venta o a un punto de recogida municipal para su reciclaje.

I henhold til EU-direktiv 2002/96/EF om affald af elektrisk og elektronisk udstyr (WEEE) må dette udstyr ikke bortskaffes som usorteret husholdningsaffald. Bortskaf dette produkt ved at returnere det til salgsstedet eller til det lokale indsamlingssted, så det kan genbruges.

I linje med EU-direktiv 2002/96/EG om avfall som utgörs av eller innehåller elektriska eller elektroniska produkter (WEEE) får denna elektriska produkt inte bortskaffas som osorterat kommunalt avfall. Bortskaffa den i stället genom att lämna in den på försäljningsstället eller din lokala återvinningsstation.

EU:n sähkö- ja elektroniikkalaiteromudirektiivin (2002/96/EY) mukaisesti tätä elektroniikkalaitetta ei saa laittaa lajittelemattoman yhdyskuntajätteen sekaan. Hävitä laite palauttamalla se ostopaikkaan tai viemällä se elektroniikkaromun keräyspisteeseen.

De acordo com a Directiva Europeia 2002/96/EC sobre resíduos sólidos de equipamento eléctrico e electrónico (WEEE), este produto eléctrico não pode ser deixado fora juntamente com o lixo municipal indiferenciado. Por favor, no final da vida útil deste produto, devolva-o ao estabelecimento de aquisição, ou entregue no local de recolha apropriado para reciclagem designado pelo seu município.

V souladu se smrnici EU . 2002/96/ES o odpadních elektrických a elektronických zaYízeních (OEEZ) se tento elektrický výrobek nesmí likvidovat jako neYídný komunální odpad. PYi likvidaento výrobek vraťte prodejci nebo ho odevzdejte k recyklaci do komunálního sborného zaYízení.

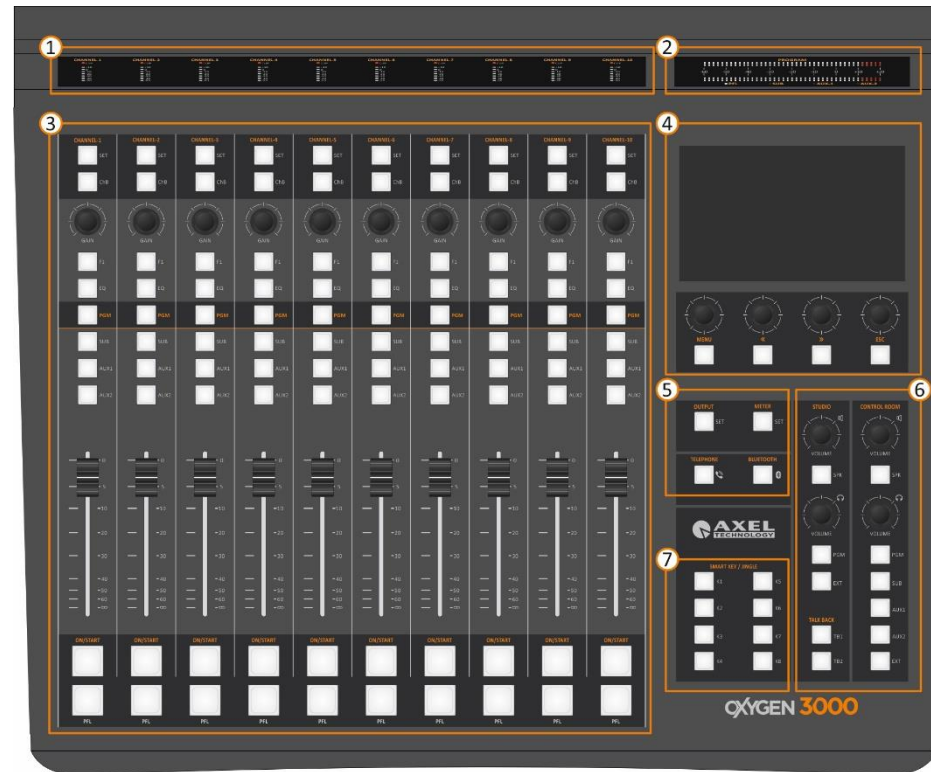
Vastavalt EL direktiivile 2002/96/EÜ, mis käsitleb elektri- ja elektroonikaseadmete jäätmeid (WEEE), ei või antud toodet visata majapidamisjäätmete hulka. Palun tagastage antud toode taaskasutamise eesmärgil müügipunkti või kohaliku piirkonna jäätmekogumise punkti.

V súlade so smernicou 2002/96/ES o odpade z elektrických a elektronických zariadení (OEEZ) sa toto elektrické zariadenie nesmie odstranovať ako netriedený komunálny odpad. Výrobok odstráňte jeho vrátením v mieste nákupu alebo odovzdaním v miestnom zbernom zariadení na recyklovanie.

8 WARRANTY

The manufacturer offers a one year warranty ex works. Do not open the equipment. Any breaking of the seals will result in forfeiture of the same. The manufacturer is not liable for damages of any kind arising from, or in connection with, the use of the wrong product.

9 SURFACE



9.1.1 INPUT LED METER

9.1.5 SPECIAL FUNCTION BUTTONS

9.1.2 OUTPUT LED METER

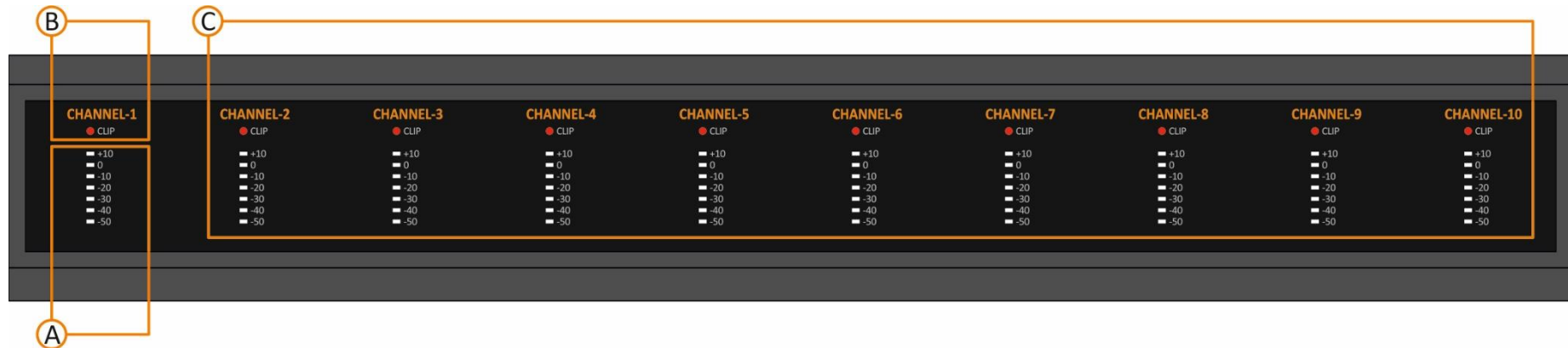
9.1.6 MONITOR SECTION

9.1.3 CONTROL INPUT CHANNEL

9.1.7 SMART KEY / JINGLE
BUTTONS

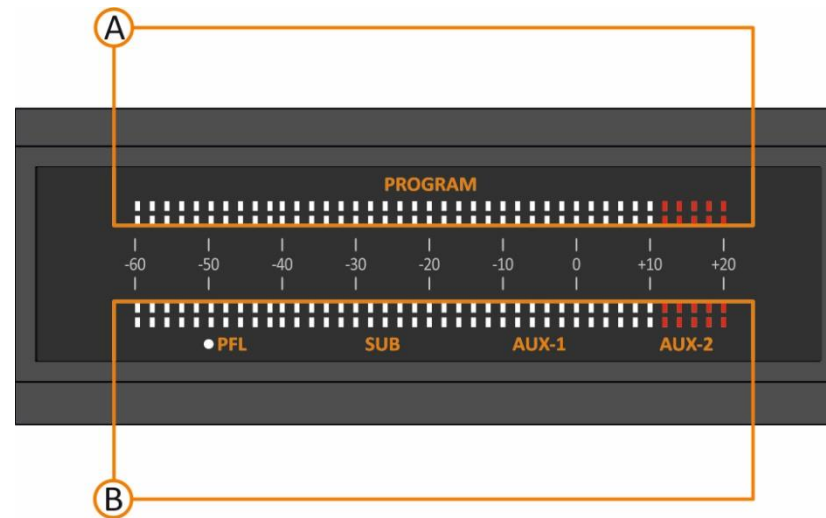
9.1.4 DISPLAY 7" TFT AND
CONTROL BUTTONS

9.1.1 INPUT LED METER

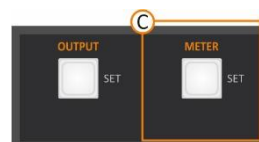


- A.** Led Meter of the signal level on the selected channel (audio presence)
The Led Meter has a 10dB resolution, from -50 to +10dB.
The level is PRE-GAIN, the GAIN action has no effect on the displayed level.
In MENU/GLOBAL-SETTINGS/METER REF/INPUTS it is possible to change the displaying Reference.
The default reference value is 0dB.
- B.** CLIP LED
The lighting of the LED indicates a source level too high.
This condition saturates the signal and creates audio distortions.
ACTION TO BE TAKEN:
turn down the input source level.
- C.** Sources level meters and clip Leds of the 10 channels.

9.1.2 OUTPUT LED METER

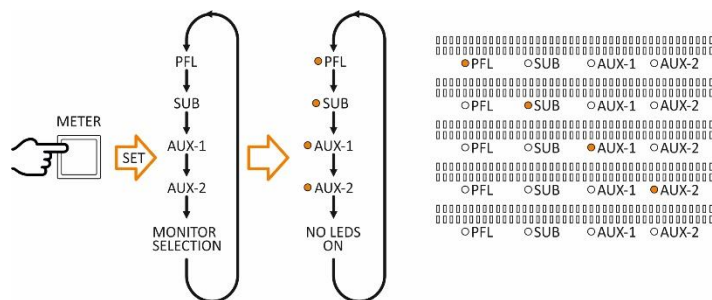


- A.** Led Meter of the Program output (PGM) signal.
 The Led Meter has a resolution of 2dB, from -60 to +20dB.
 The level is POST-GAIN, the PGM GAIN has effects on the displayed level.
 In MENU/GLOBAL-SETTINGS/METER REF/OUTPUTS it is possible to change the displaying Reference.
 The default reference value is 0dB.
- B.** Led Meter of the signal of the output PFL/SUB/AUX-1/AUX-2/MONITOR SELECTION.
 The Led Meter has a resolution of 2dB, from -60 to +20dB.
 The level is POST-GAIN, the BUS GAIN has effects on the displayed level.
 In MENU/GLOBAL-SETTINGS/METER REF/OUTPUTS it is possible to change the displaying Reference.
 The default reference value is 0dB.

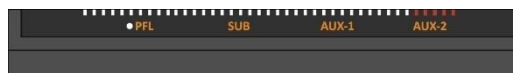


C. It is possible to select the displayed BUS by pressing METER button.

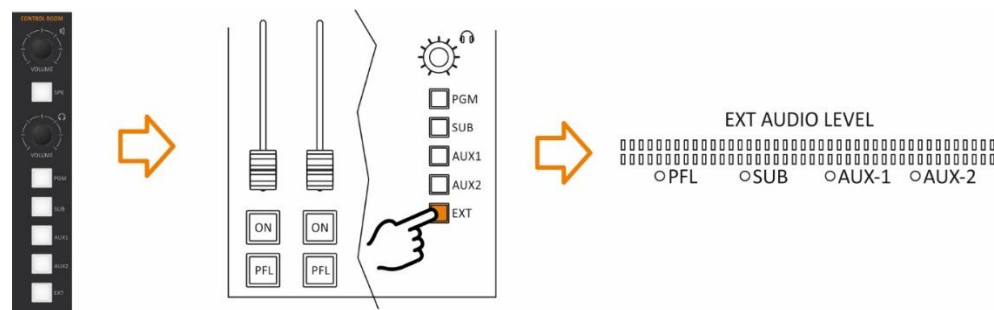
It is possible to switch the 4 BUSES and MONITOR SELECTION sequentially, by a repeatedly presson
PFL -> SUB -> AUX-1 -> AUX-2 -> MONITOR SELECTION -> PFL -> SUB...



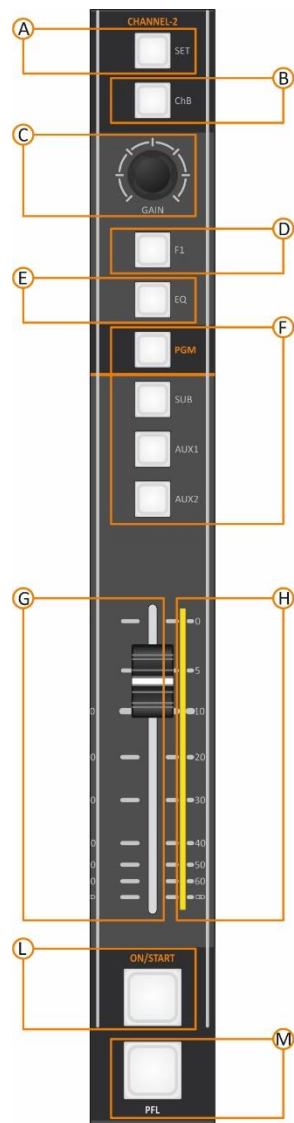
the selected BUS is forcedly displayed when the related LED (PFL/SUB/AUX-1/AUX-2) is on.



The 4 LEDs are off In the MONITOR SELECTION position. The displayed signal is the source selected in HDP C-ROOM, as shown in the following picture.



9.1.3 CONTROL INPUT CHANNEL



9.1.3A. SET – BUTTON TO SET CHANNEL PARAMETERS

9.1.3B. CHB – BUTTON FOR THE SOURCE SWITCHING BETWEEN THE PRIMARY SOURCE(A) AND THE MOMENTARY ONE (B).

9.1.3C. GAIN – KNOB TO ADJUST THE INPUT SOURCE LEVEL OF THE SIGNAL.

9.1.3D. F1 – BUTTON TO ENABLE/DISABLE THE ASSOCIATED FUNCTION.

9.1.3E. EQ – BUTTON TO ENABLE OR TO SET THE EQUALIZER.

9.1.3F. PGM – BUTTON TO ENABLE THE PGM BUS.

SUB – BUTTON TO ENABLE THE SUB BUS.

AUX-1 – BUTTON TO ENABLE THE AUX-1 BUS.

AUX-2 – BUTTON TO ENABLE THE AUX-2 BUS..

9.1.3G. FADER – THE FADER ALLOWS THE SOURCE LEVEL ATTENUATION.

9.1.3H. FADER LED BAR – IT INDICATES THE ATTENUATION AND THE SOURCE TYPE.

9.1.3L. ON/START – BUTTON TO SWITCH ON/OFF THE SELECTED SOURCE.

9.1.3M. PFL – BUTTON TO ENABLE THE PFL BUS.

9.1.3A SET BUTTON



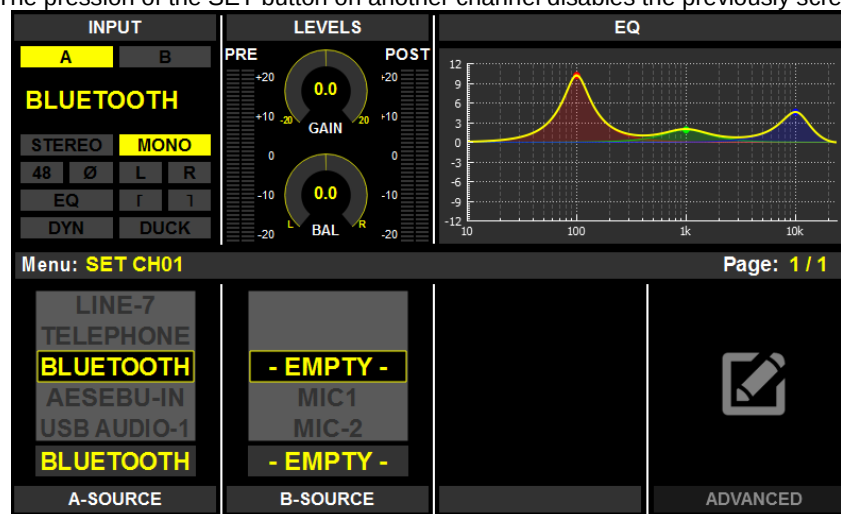
To enter in the settings menu and to view channel parameters press SET.

The single pression enables/disables the channel status viewer on the TFT and at the same time enables de settings menu for the channel parameters.

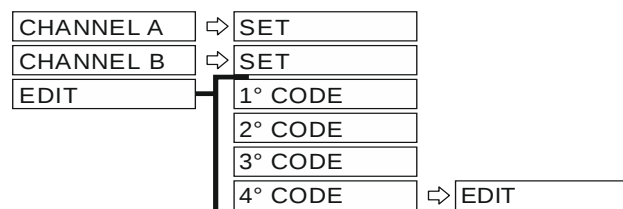
Button in OFF position: Channel viewing disabled.

Button in ON position: channel viewing/setting enabled. The button starts to blink.

The pression of the SET button on another channel disables the previously screen.



- SET Menu -

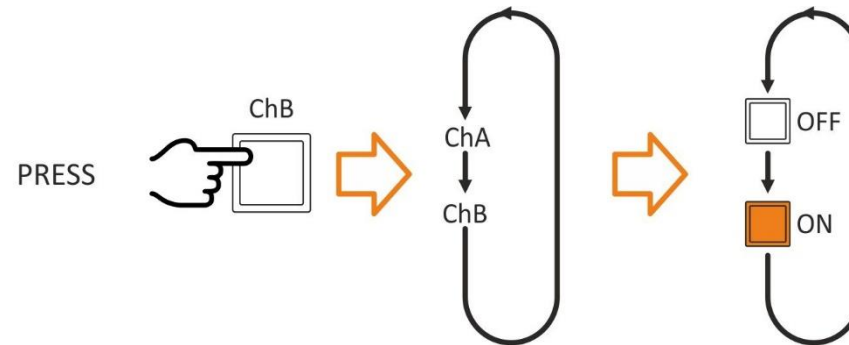


9.1.3B ChB BUTTON



For every channel you can set two different input sources, ChA and ChB.

By pressing ChB button you can switch over between A/B sources.
 Button in OFF position: the ChA is shown.
 Button in ON position: the ChB is shown. The button turns on green.



ATTENTION : If the source is already aired on another channel it is aired to the last one too. The faders will be added accordingly with the BUS selection.
 If the Channel B is aired you can not assign to it the EMPTY source.

9.1.3C GAIN

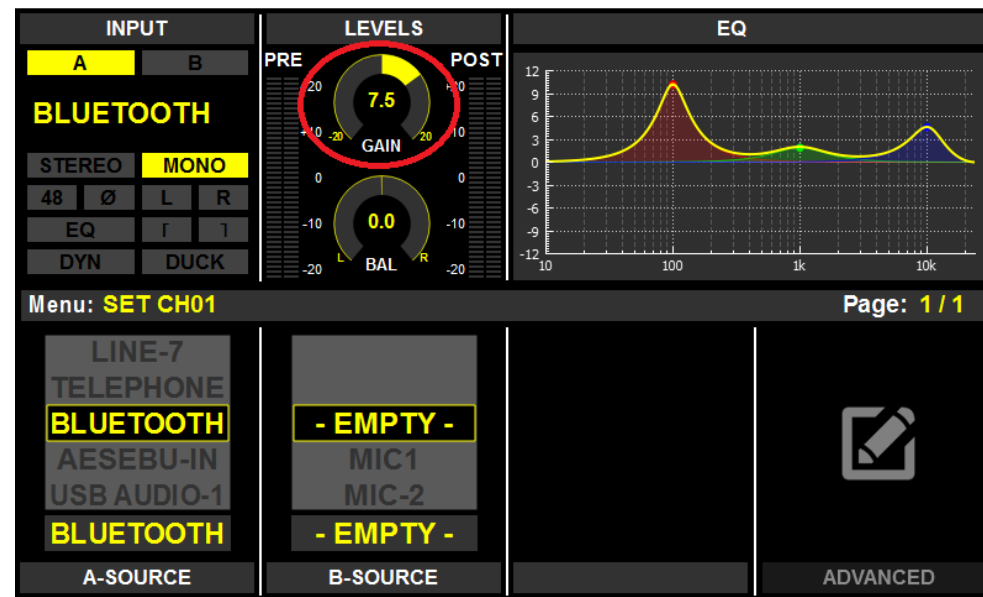


The GAIN knob rotation increases or decreases the input source gain..

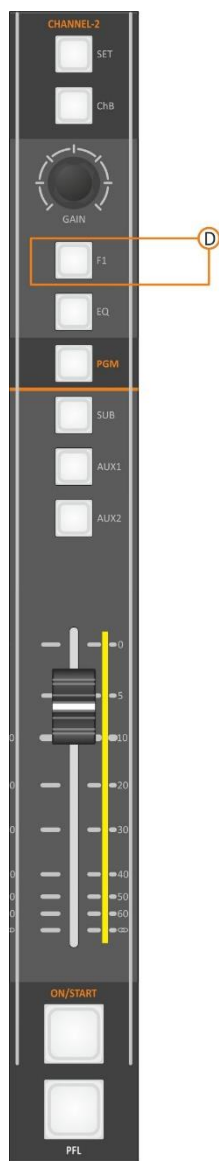
The GAIN value is associated to the input source ChA / ChB. By switching the source the gain is always suitable to the connected one.

The GAIN value is always the last one set with the knob or with the setting menu.

The GAIN affects the input level with +/- 20 dB.



9.1.3D F1 BUTTON



Telephone Channel / Telco (Default Setting).

F1 blinks to report an incoming call.

F1 pression enables the telephone line.

F1 long pression disables the telephone line.

9.1.3E EQ BUTTON

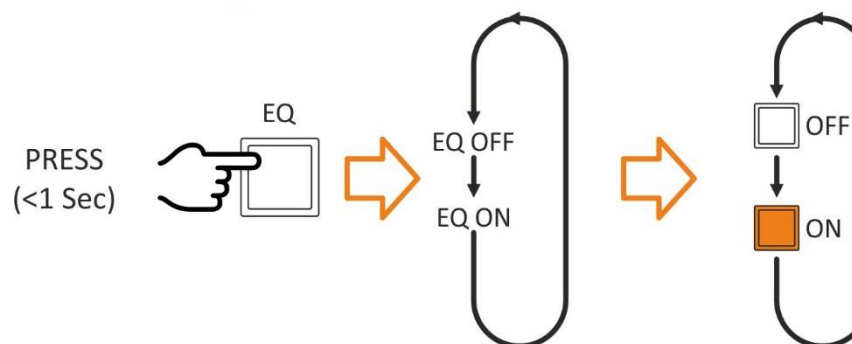


EQ button has different functions:

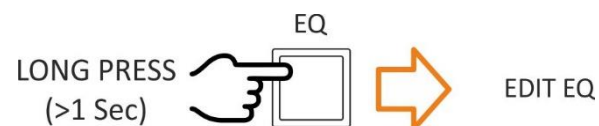
- 1) Enables/Disables the equalizer.
- 2) Reports if the equalizer is turned on or turned off.
- 3) Allows to entering in the equalizer configuration menu.
- 4) Reports the changing of equalizer settings.

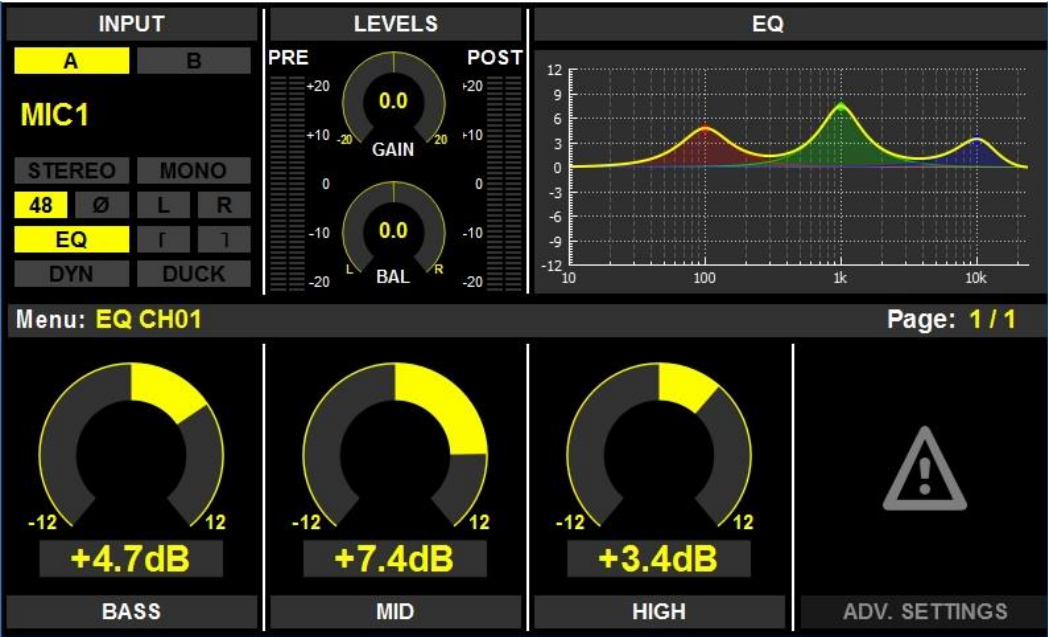
The equalizer is associated with the selected source, when a source is selected for a channel also the related and customized equalization is loaded. L'equ

1)2) the pression of EQ for a time < 1 Sec enables or disables the equalizer; the status is indicated by the RGB Led under the key.



3) 4) the pression of EQ for a time > 1Sec enables the equalizer and the EQ editor on the display.

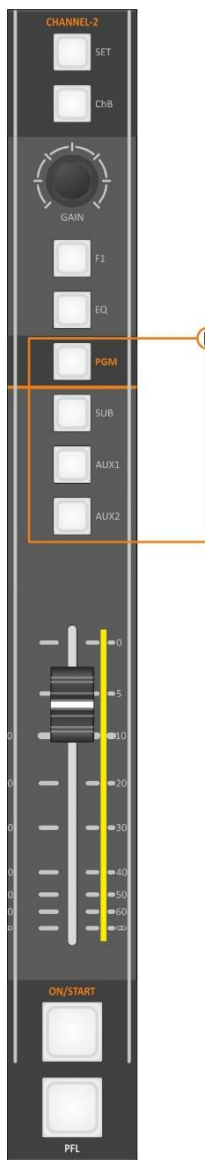




A presson on EQ for a time < 1 Sec disables the Editing Mode, leaving the EQ enabled.
In this Menu, it is possible to change BASS/MID/HIGH equalizations.

EQ. MENU	
BASS	⇒ GAIN
MID	⇒ GAIN
HIGH	⇒ GAIN

9.1.3F PGM/SUB/AUX-1/AUX-2 BUTTONS



The 4 PGM, SUB, AUX-1, AUX-2 buttons enable or disable the signal routing on the related BUS, the RGB Led under the related button has three different states:

- 1) Led OFF- BUS disabled
- 2) Led ON in full light acceso – BUS enabled + Channel ON
- 3) Led ON in half light – BUS ON + Channel OFF

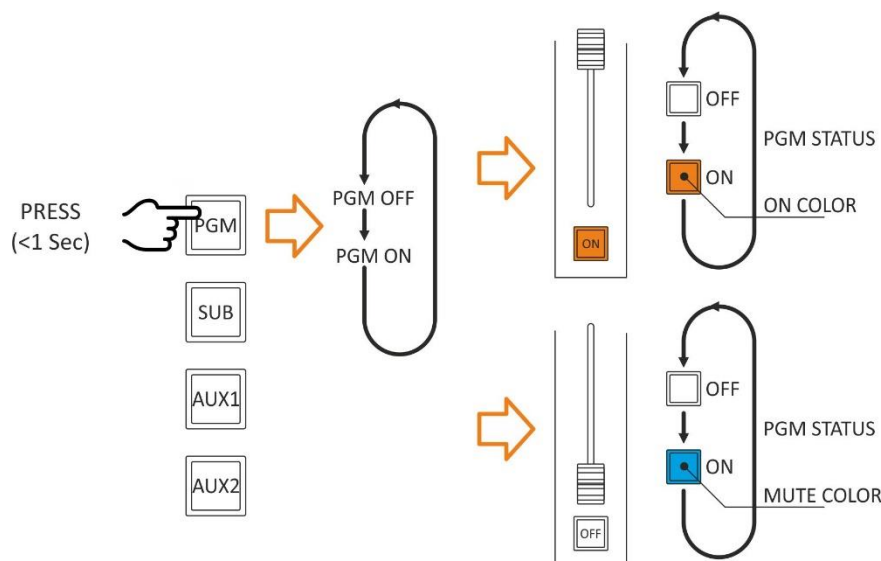
Differently from the EQ and the GAIN the BUSS state is not associated with the source, but with the physical channel. Changing the source, the BUSS state will not change.

It is possible to set AUX-1 and AUX-2 to be POST-Fader or PRE-Fader, this choice is settable in settings menu of every channels.

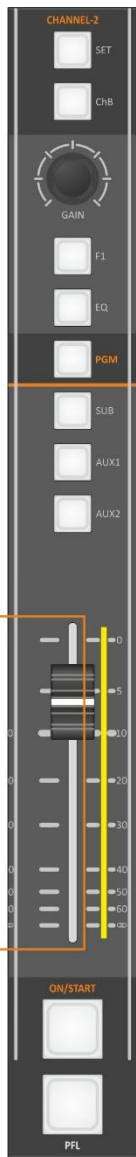
When the channel switches from ON state to OFF state, the related LedS switches from ON Color to MUTE color, this function allows us to understand the channel and buss state.

ON/OFF channel state could depend on:

- a) ON/OFF of ON/START button
- b) Fader position

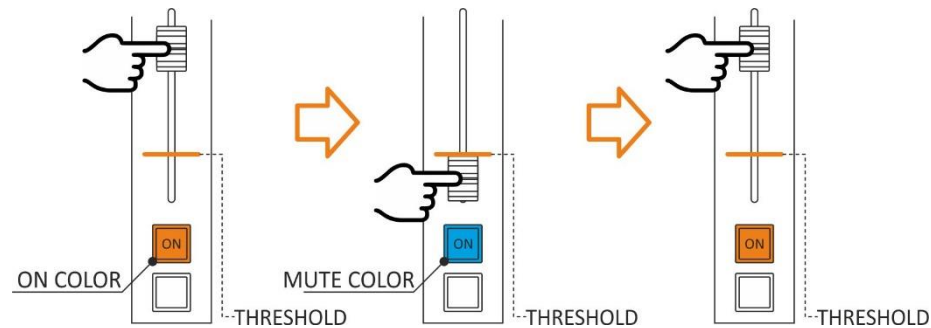


9.1.3G FADER



A command is generated everytime the Fader passes through the threshold value:

- ON - crossing the threshold point from bottom to top.
- OFF - crossing the threshold point from top to bottom.



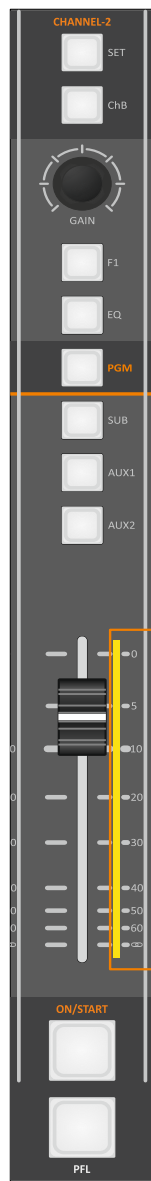
Differently from the EQ and the GAIN the FADER state is not associated with the source, it is associated with the physical channel. Changing the source, the FADER attenuation and the FADER position will not change.

MOTORIZED FADER (Optional).

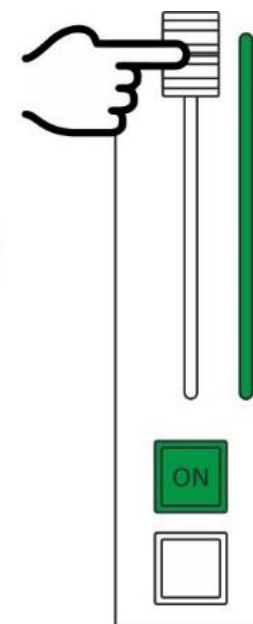
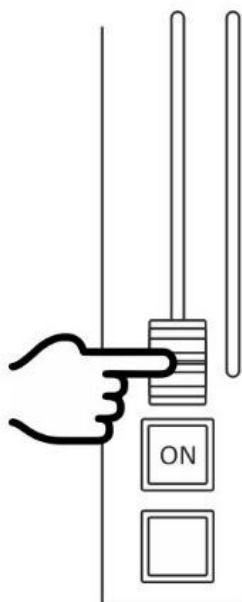
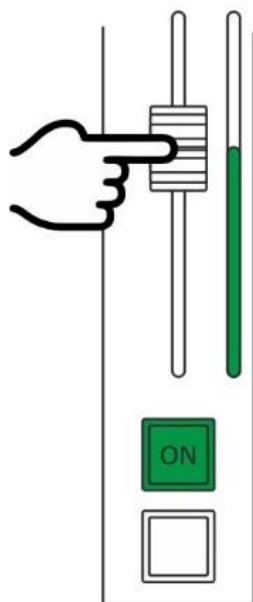
ATTENTION:

It is possible to set AUX-1 and AUX-2 to be POST-Fader or PRE-Fader. The FADER does not affect the signal in the PRE-FADER case.

9.1.3H FADER LED BAR



The FADER LED BAR shows:
1) the channel level



9.1.3L ON/START BUTTON



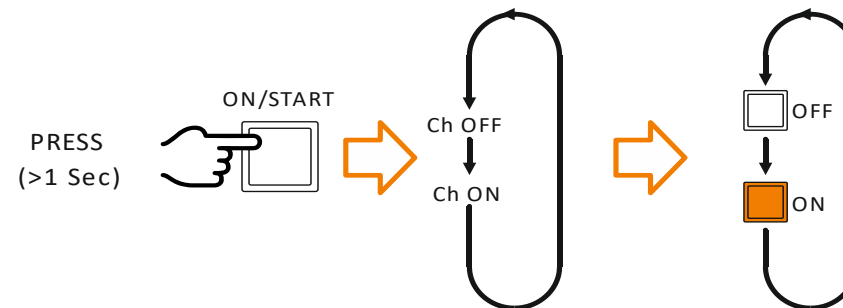
ON/START button enable or disable the channel (ON/OFF), the OFF state mutes the channel automatically; the RGB LED under the button has three different states:

- 1) LED OFF - OFF state- the channel is MUTE
- 2) LED ON (full light) - ON state – the channel is OPEN
- 3) LED ON (Middle lights) –ON state & MUTE state

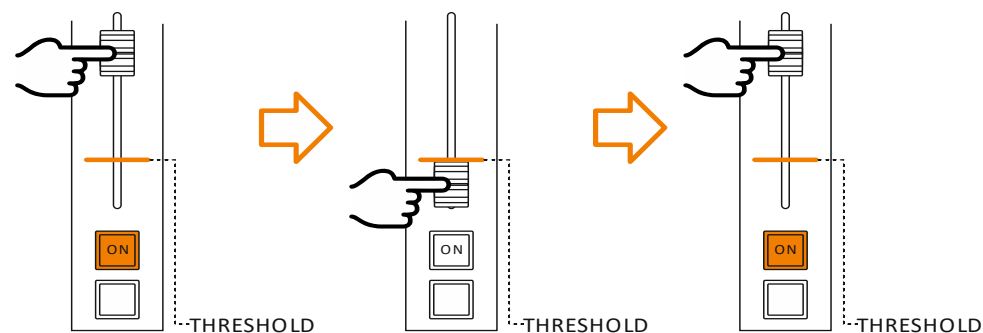
Differently from the EQ and the GAIN the ON/OFF state is not associated with the source, it is associated with the physical channel. Changing the source(A/B), the ON/OFF channel state will not change.

The ON/OFF channel state could be changed by:

- A press of ON/START button



- the passage of the fader through a previously set threshold value





In the case of ON BY FADER active it is possible to combine the FADER action with the ON/START button.



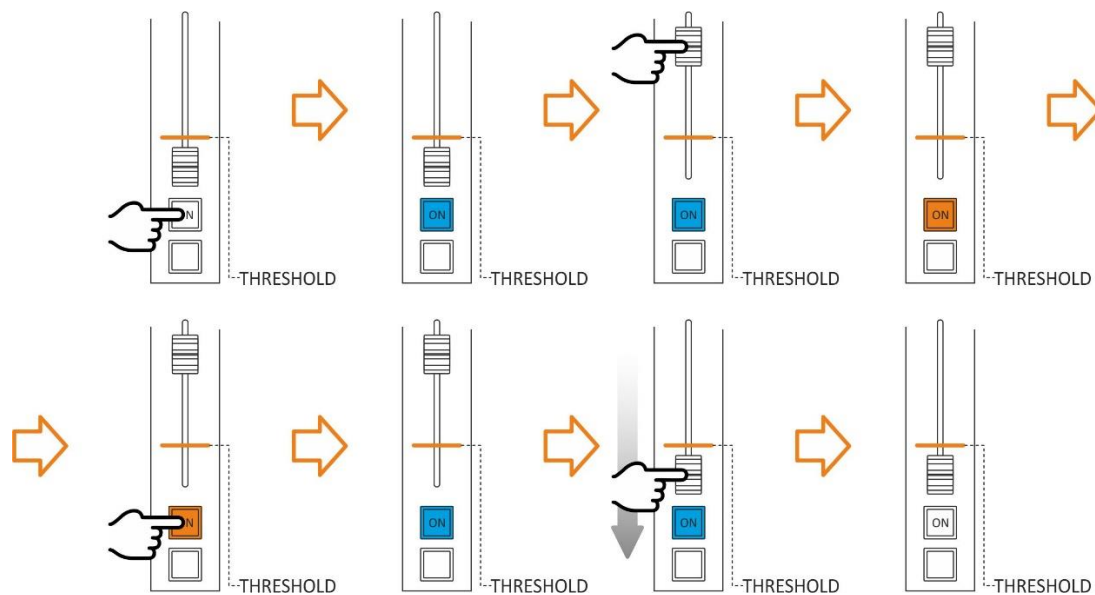
OFF



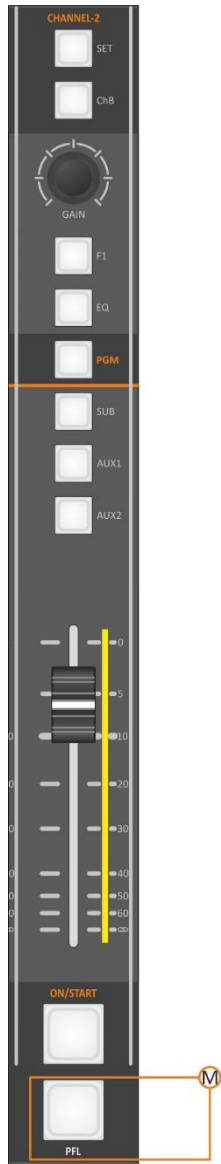
ON



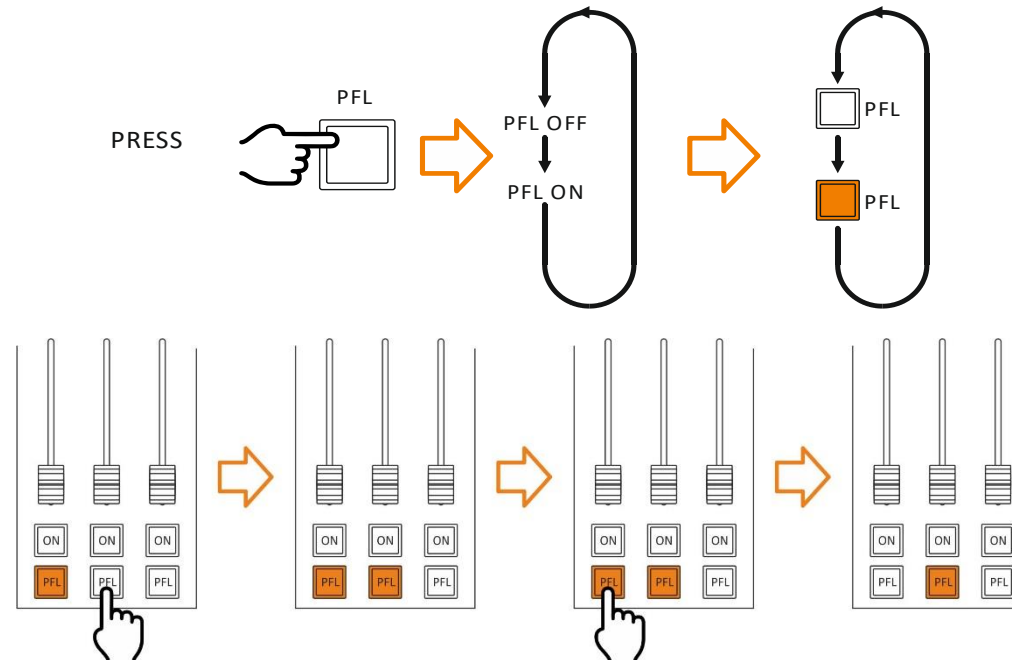
MUTE



9.1.3M PFL BUTTON

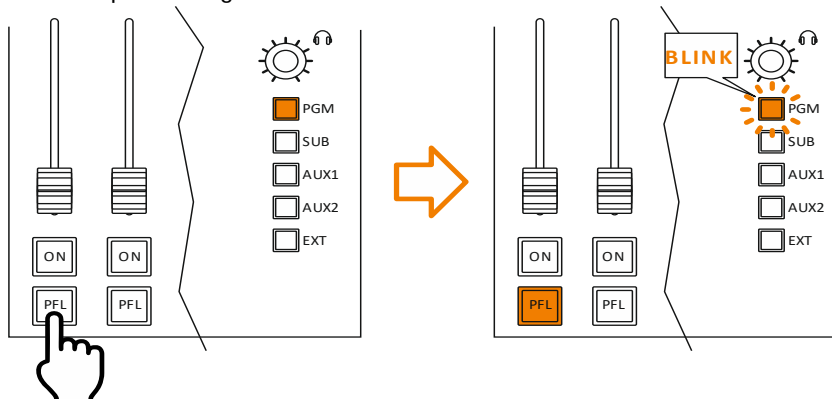


PFL button enables or disables the prelisten of the channel, when the button LED is on the prelisten is enabled on that channel. Differently from the EQ and the GAIN the PFL state is not associated with the source, it is associated with the physical channel. Changing the source, the PFL state will not change.

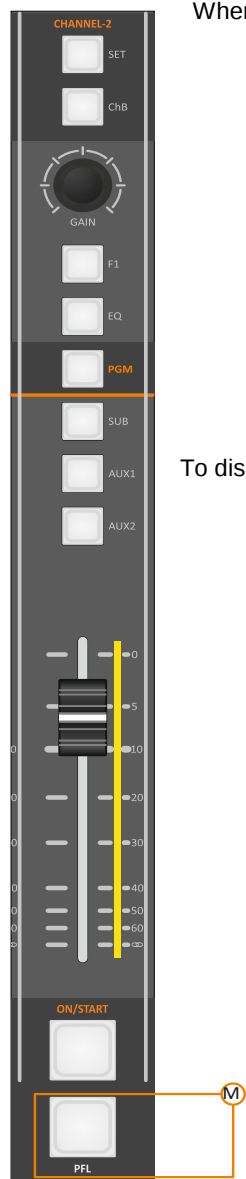
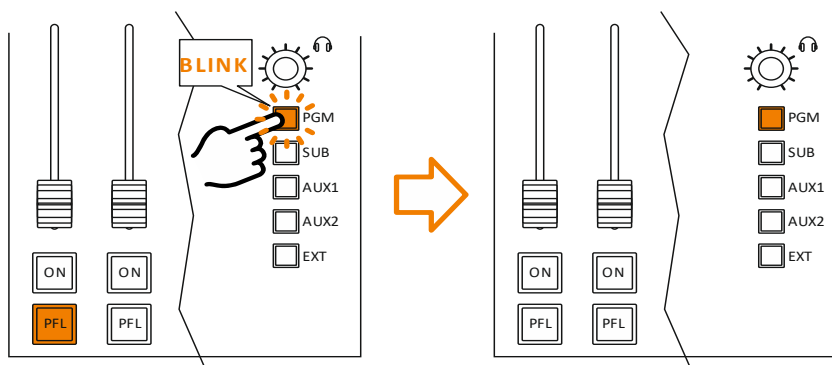


If you press a second or more PFL buttons you will prelisten for all of them.
By pressing an enabled PFL you will disable it from the MONITOR prelistening
By pressing the last active PFL you disable the automatic PFL listening from the MONITOR.

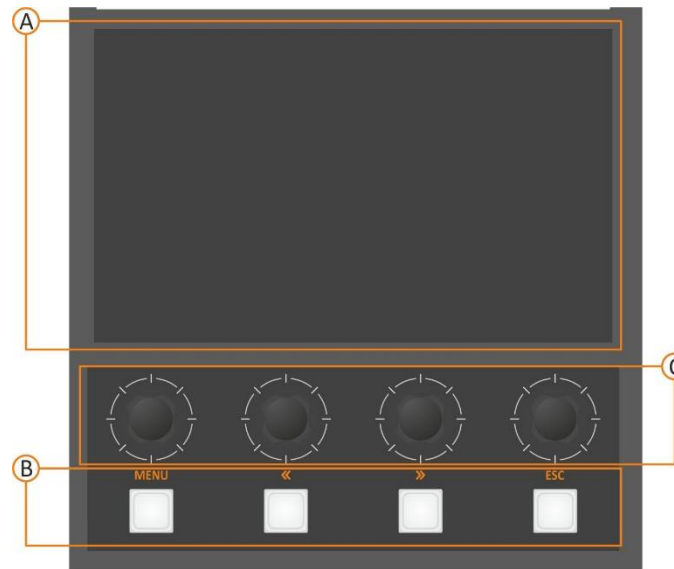
When a PFL Button is in ON position, the automatic prelistening is activated on the MONITOR. In this condition the source button previously set starts blinking.



To disable the prelistening press the enabled PFL or the blinking button in Monitor section.

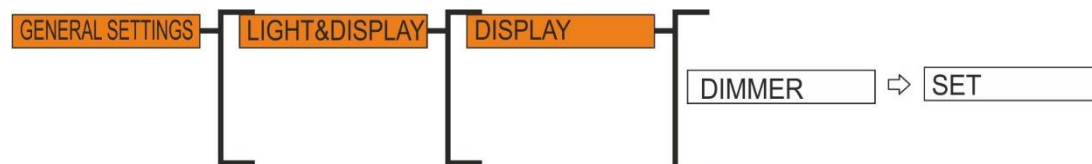


9.1.4 DISPLAY 7" TFT AND CONTROL BUTTONS

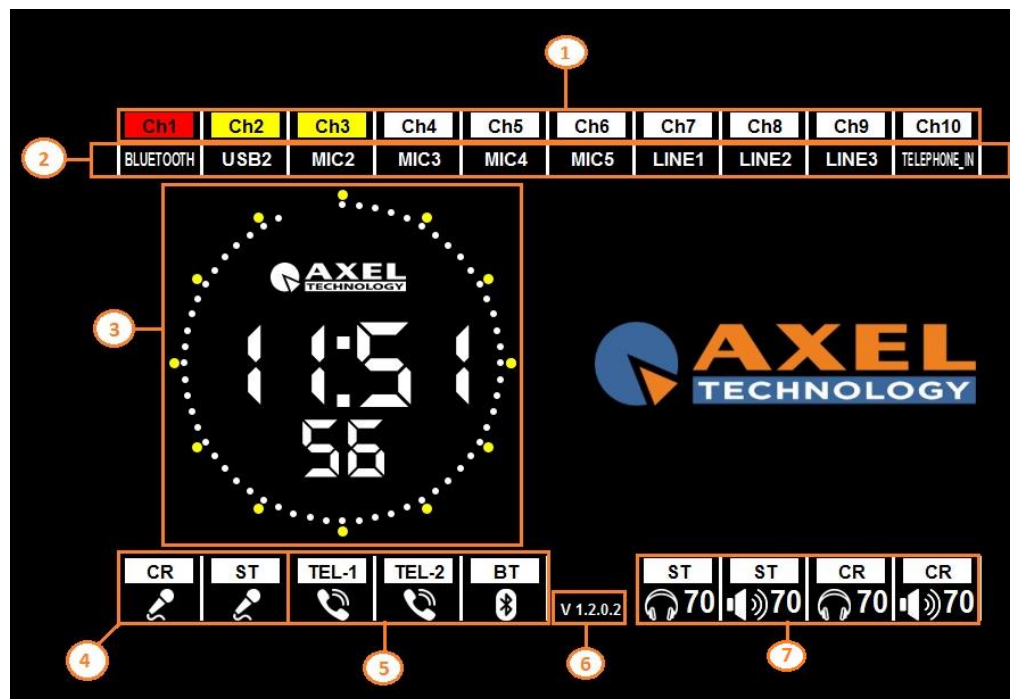


9.1.4A COLOR DISPLAY 7" - 800X480 RESOLUTION

The display is used for the mixer parameter monitoring and checking.



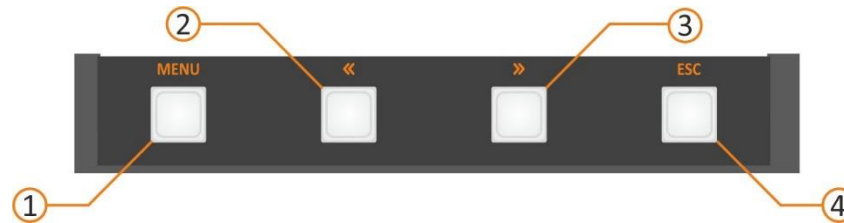
The following picture is the HOME PAGE:



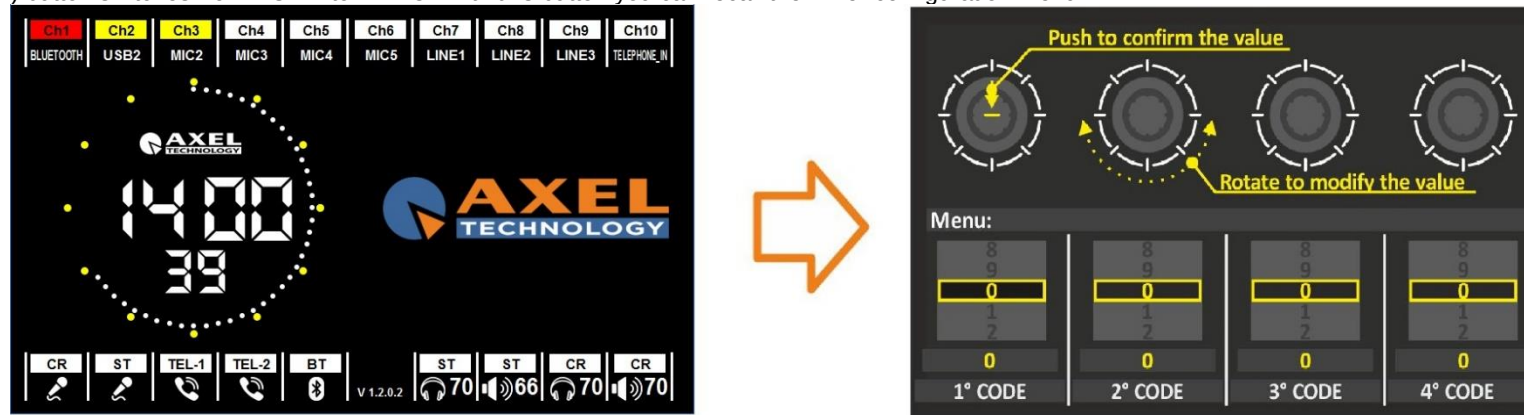
- 1 ON/OFF channel STATUS
- 2 Source names associated with channels
- 3 NTP synchronized clock
- 4 ONAIR mic status
- 5 Telephone/Bluetooth status
- 6 FW release
- 7 Speakers and Headphones status

It is possible to adjust the display brightness, allowing you to deal with any environmental situation. You can find the parameter in the following menu: GENERAL SETTINGS/LIGHT & DISPLAY/DISPLAY/DIMMER(low, mid, high).

9.1.4B BUTTONS FOR THE MENU NAVIGATION

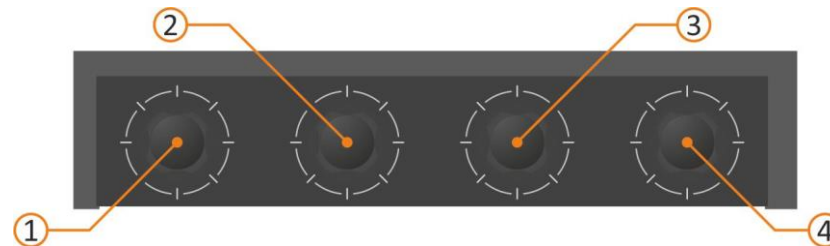


4B-1 The MENU (1) button switches from HOME to MENU. With this button you can recall the mixer configuration menu.

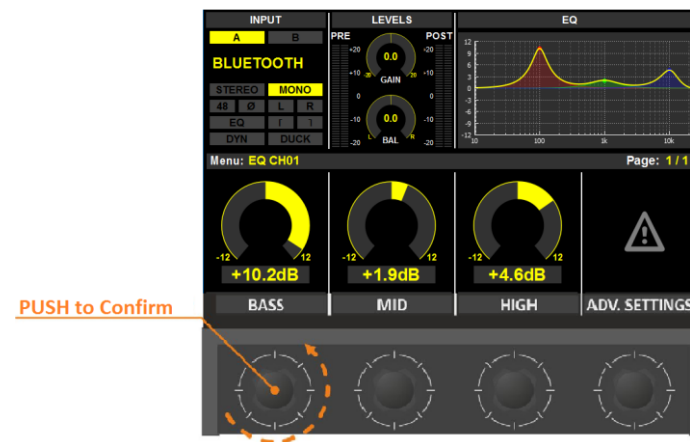


>> and << (2) (3) Buttons allow you to move between parameters/functions on the same menu level.
ESC (4) allows you to exit from the menu level going up in the menu.

9.1.4C ENCODER FOR THE MENU NAVIGATION



The 4 encoders (1) (2) (3) (4) allow you to adjust and confirm the menu parameters.
It is also possible to PUSH the encoder to confirm the parameter setting.
Menus were designed to have a perfect matching between graphics and encoders.



Parameter changes will be directly applied to the audio of the aired channel.

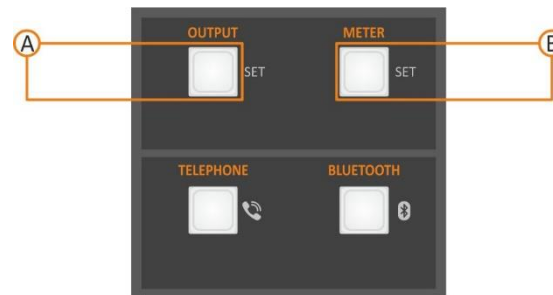
The yellow value represents the stored value.

While a knob is being moved the circle becomes white; a white value appears in the middle of the circle. The new value represents an instantaneous value that is different from the stored one.

Push the related encoder to confirm the parameter changes. Once you have confirmed the new value, the graphic will become yellow again.

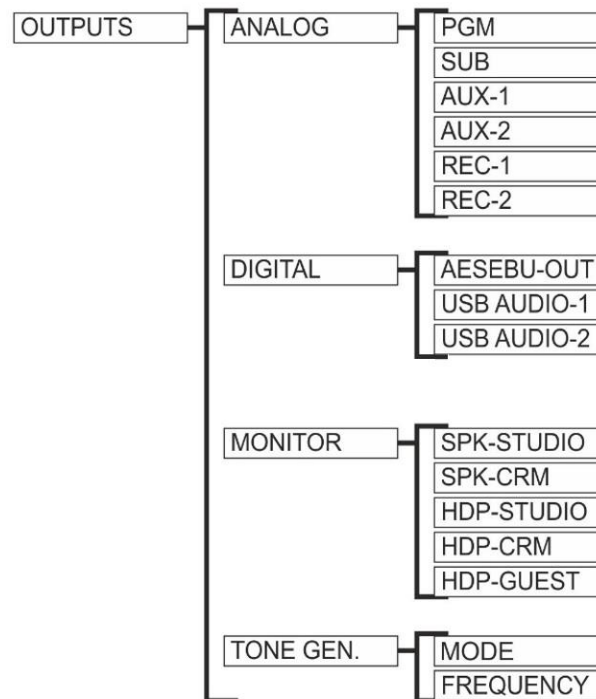
At the ESC pression or at the next screen change if the changes will not be confirmed, the value will be restored to the once previously saved.

9.1.5 SPECIAL FUNCTION BUTTONS

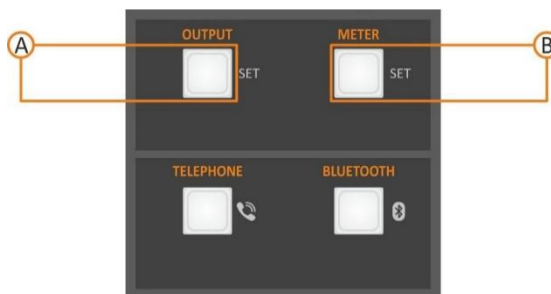


9.1.5A OUTPUT BUTTON

The OUTPUT button recalls directly the OUTPUTS configuration menu. This button is a SHORTCUT to reach immediately the OUTPUT menu.



9.1.5B METER BUTTON

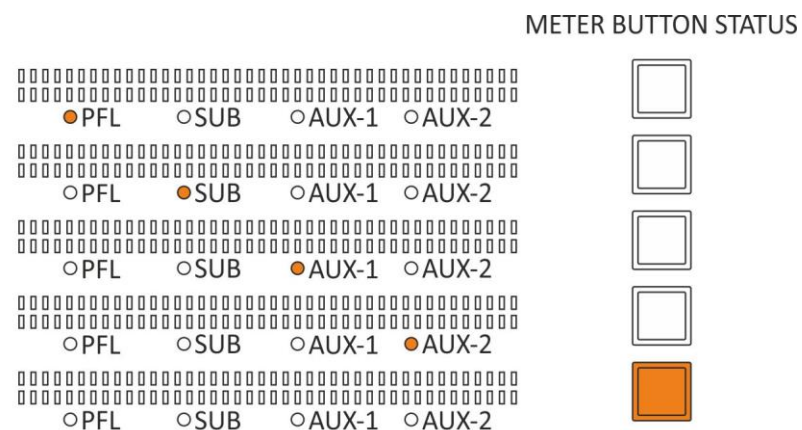
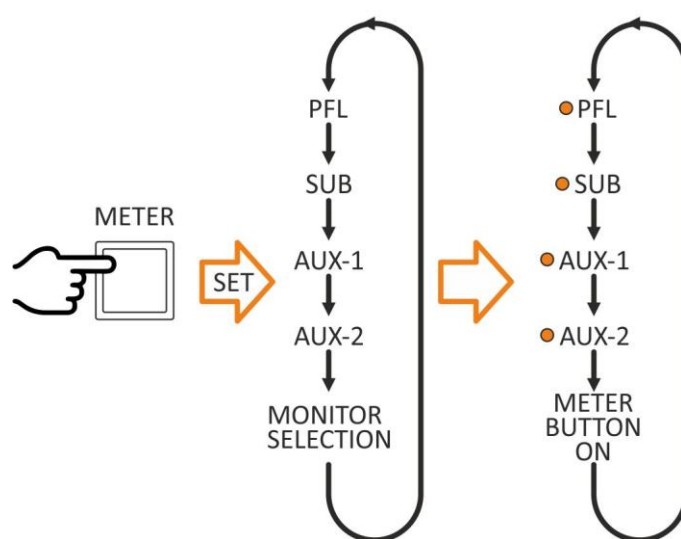


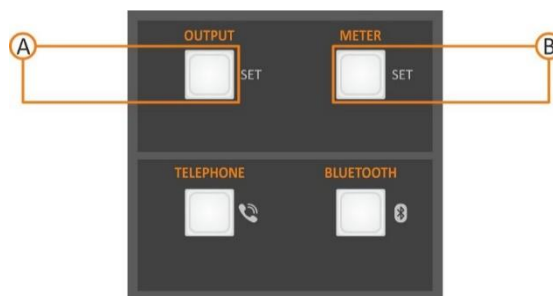
METER button manages the source displayed in the bottom section of the LED METER screen.

By pressing METER you can select the displayed BUS.

The repeated presson of METER button switches the 4 BUS and the MONITOR SELECTION, displaying them in a sequential way.

PFL -> SUB -> AUX-1 -> AUX-2 -> MONITOR SELECTION -> PFL -> SUB

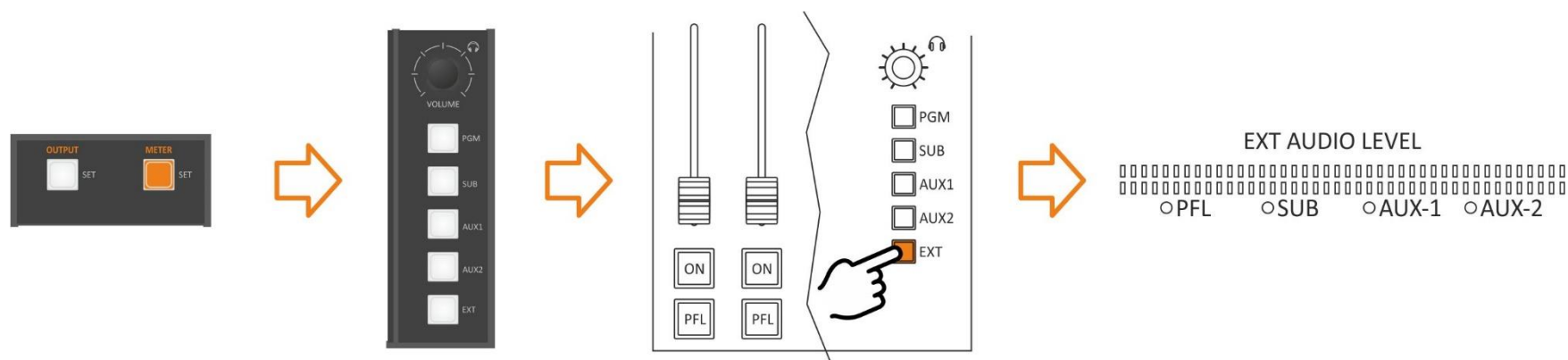




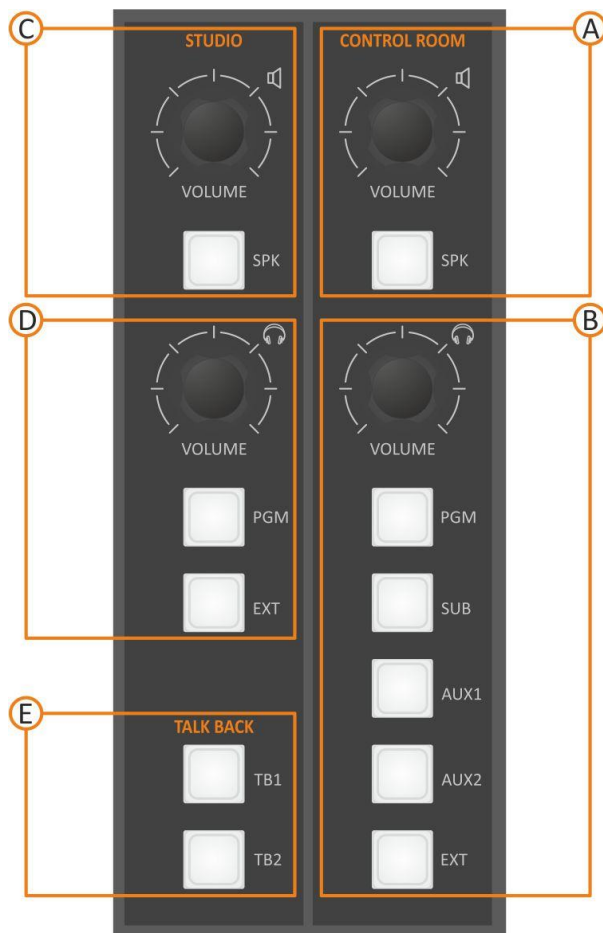
If one of the four LedS is on (PFL/SUB/AUX-1/AUX-2) the selected BUS is forcibly displayed.



The selected source in HDP C-ROOM is being displayed in the MONITOR SELECTION state. In this state all 4 LedS are OFF as explained in the following picture.

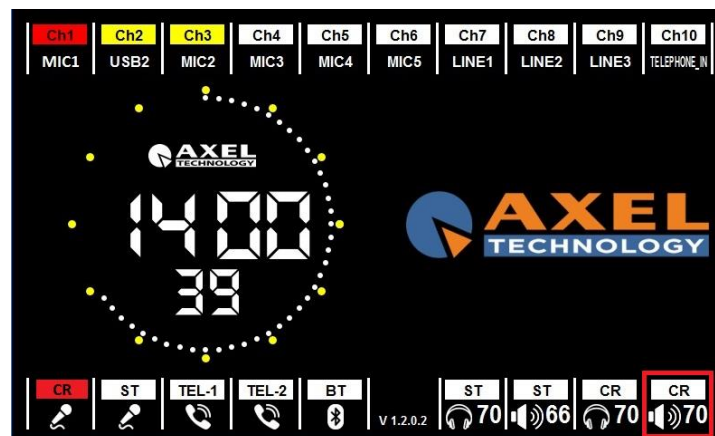


9.1.6 MONITOR SECTION

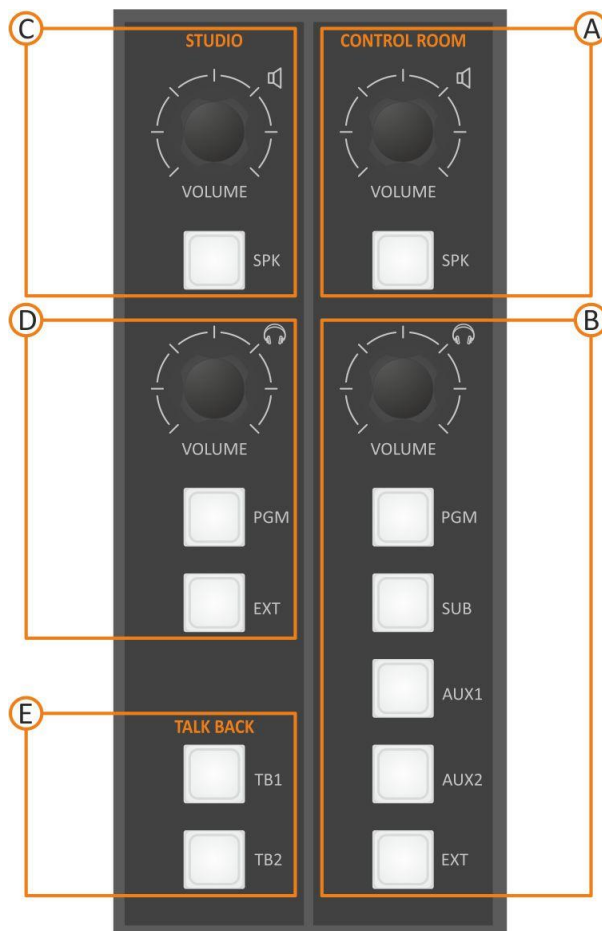


9.1.6A CONTROL ROOM – SPEAKERS SOURCES & LEVEL – CUT FUNCTION

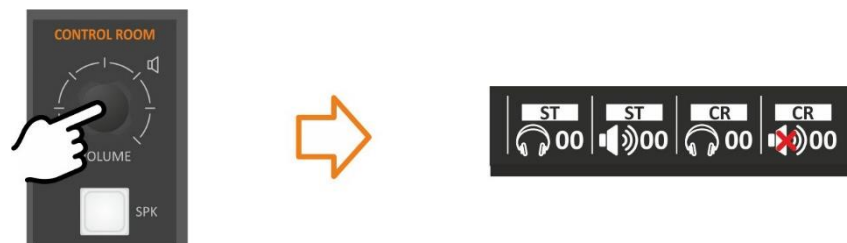
This section is useful for the management of the Control Room Speakers.
The encoder allows you to amplify/attenuate the selected signal in the Speakers.
The Speaker levels is displayed in the bottom-right section.



The Speakers audio level goes from 0 to 99. 99 is the maximum allowed level.
The step of the speaker adjustment is 1 dB and the level goes from -80 dB to the maximum of +19dB.
By setting the level on 80 dB we will have a total output level of 0dB.

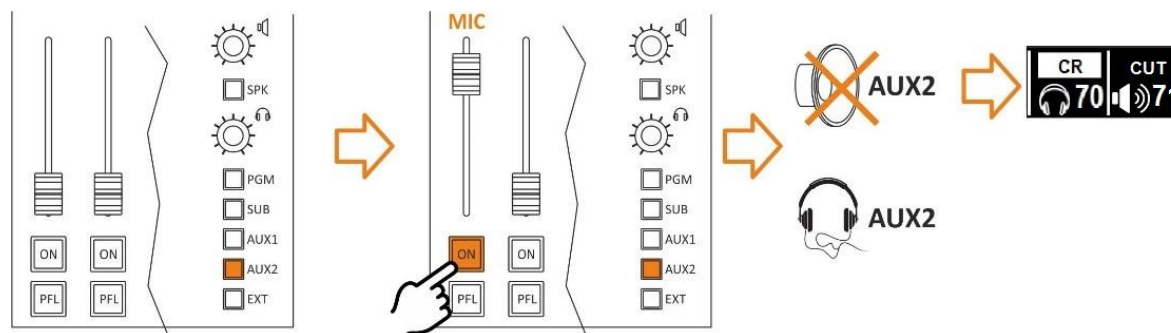


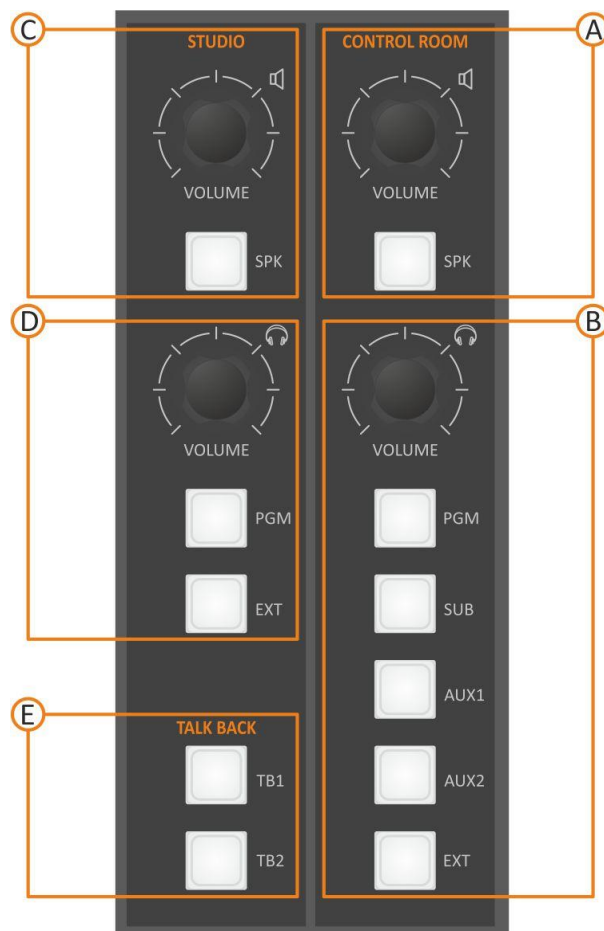
By pressing the Encoder is possible to put the OUTPUT on MUTE. By pressing the same encoder again is possible to restore the OUTPUT signal.
A red cross on the SPEAKER icon indicates MUTE-SPK state.



If a MIC-source is turned up, the speakers are closed automatically (Cut Mode).
In the CUT mode the SPK function is disabled.

If the CUT function is recalled, the SPEAKER selection is disabled and only the Headphone state is displayed.
It is possible to select the SPEAKER source only out of the CUT mode.

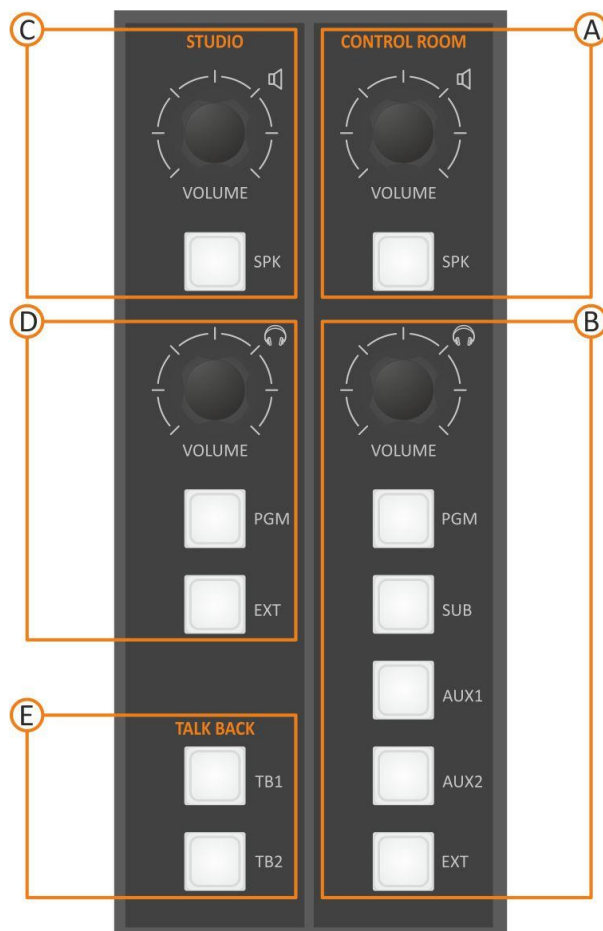




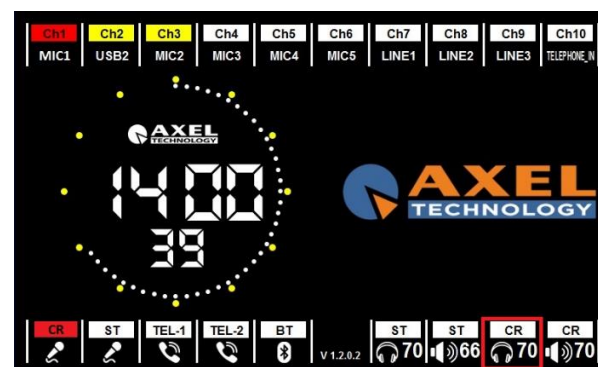
When a MIC-source is turned UP/ON the CUT mode is turned ON and C-ROOM/STUDIO SPEAKERS will be closed automatically.

To avoid any kind of LARSEN effect, CUT mode is a function associated only with the SPEAKERS.
To set the MIC on which you want to apply the CUT mode go to CUT SOURCE of the GENERAL > AUDIO > OUTPUTS > MONITOR > SPEAKER > SPK-CRM.
This option allows the MULTIPLE SELECTION, it is possible to select more than one source.

9.1.6B CONTROL ROOM –HEADPHONES SOURCES & LEVEL



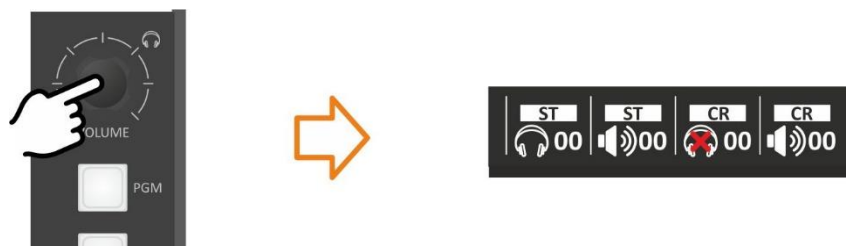
This section is useful for the management of the Sources and Headphones Level for the Control Room. The encoder allows you to amplify/attenuate the selected signal in the Headphones. The Headphones levels is displayed in the bottom-right section.



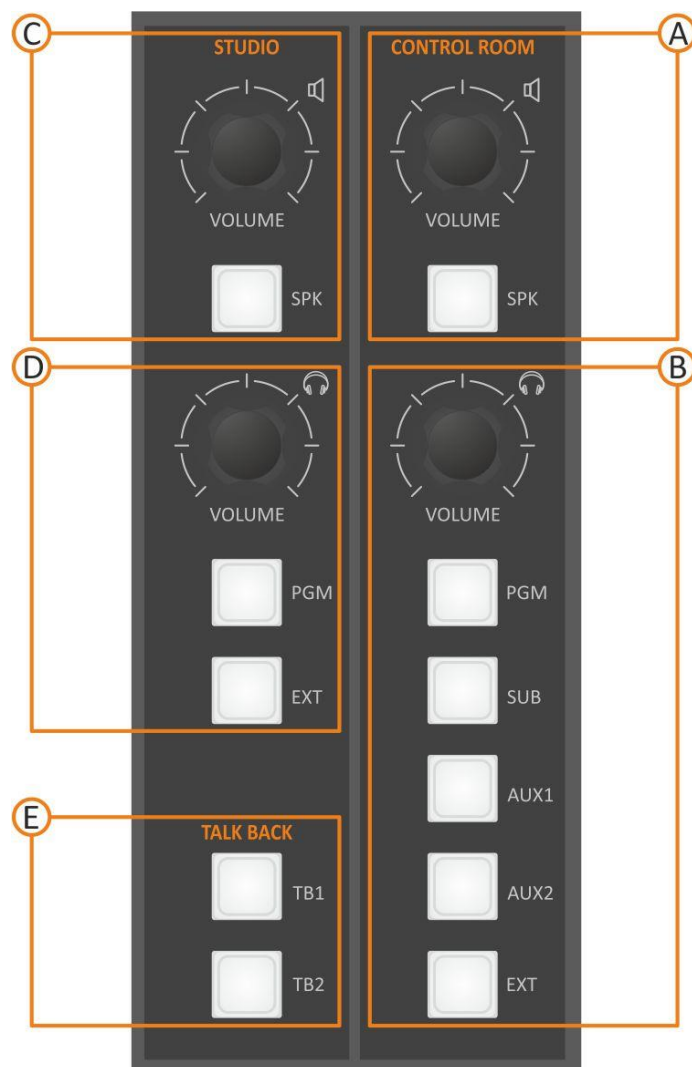
The Headphones audio level goes from 0 to 99. 99 is the maximum allowed level. The step of the speaker adjustment is 1 dB and the level goes from -80 dB to the maximum of +19dB. By setting the level on 80 dB we will have a total output level of 0dB.

By pressing the Encoder is possible to put the OUTPUT on MUTE. By pressing the same encoder again is possible to restore the OUTPUT signal.

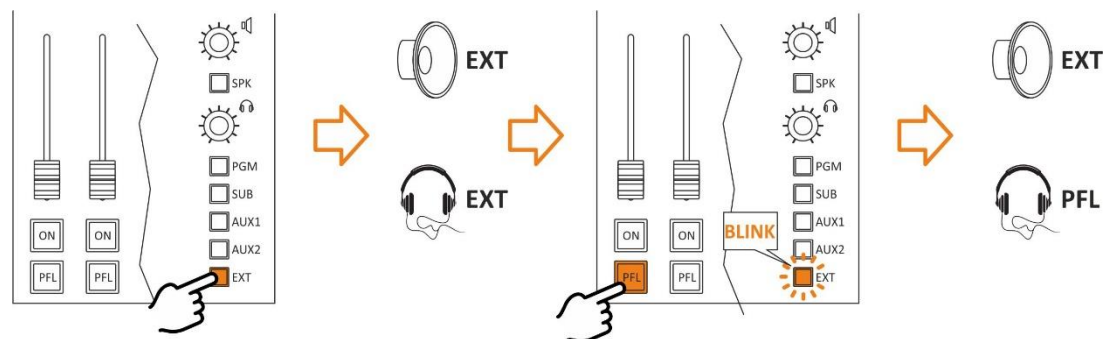
A red cross on the HEADPHONES icon indicates MUTE-HDP state.



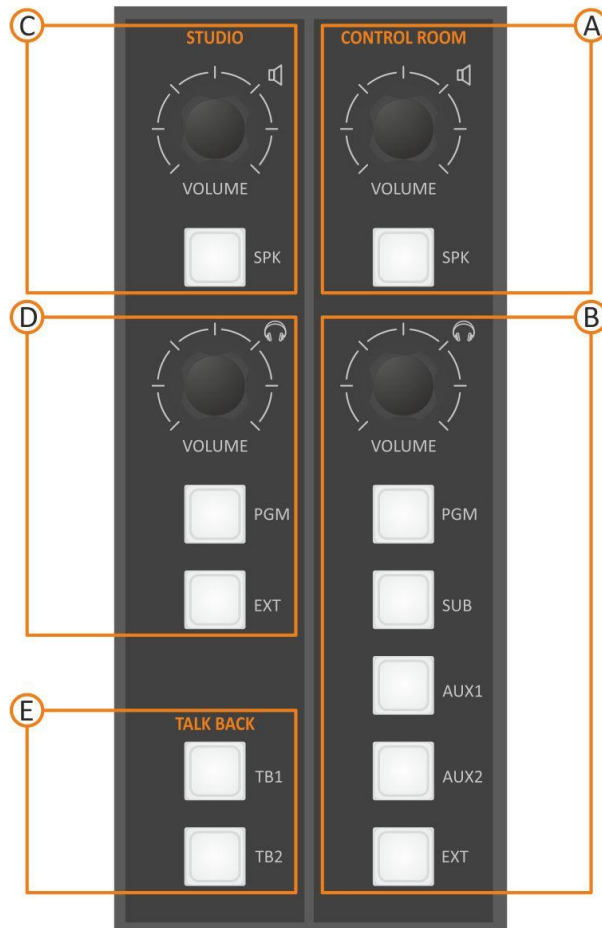
SPEAKER (1SEL-PFL)



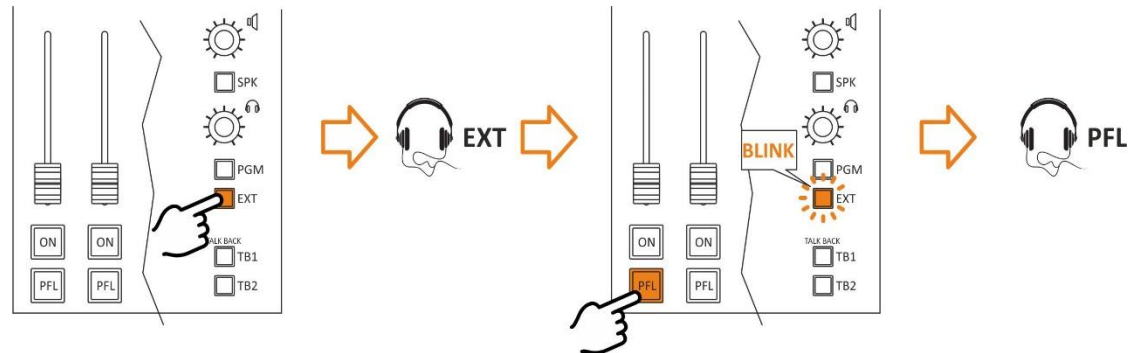
Headphones and speakers receive the same selected source, except for the PFL selection. If Headphones receives a selected PFL, speakers no. They will be independent and they will listen always the selected source. The selected source will start blinking.



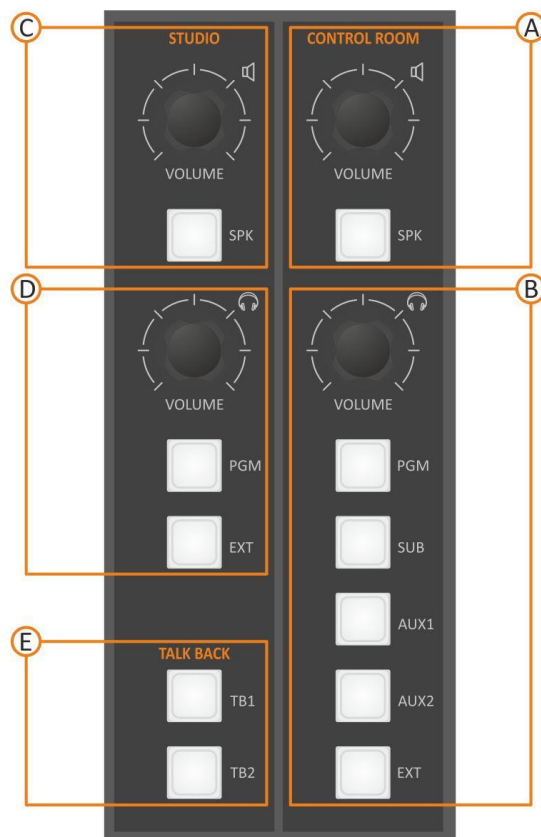
HEADPHONES (SEL or PFL)



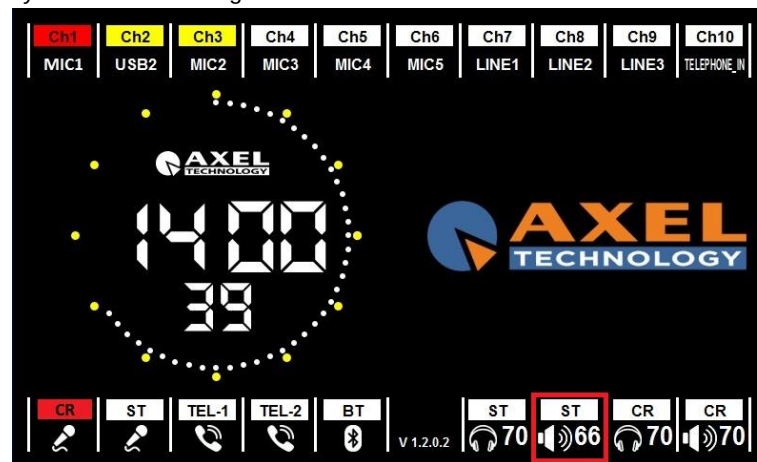
Normally Headphones listen the selected source like the speakers.
If PFL is pressed, headphones can listen for it, speakers no.
The selected source will start blinking.



9.1.6C STUDIO - SPEAKERS

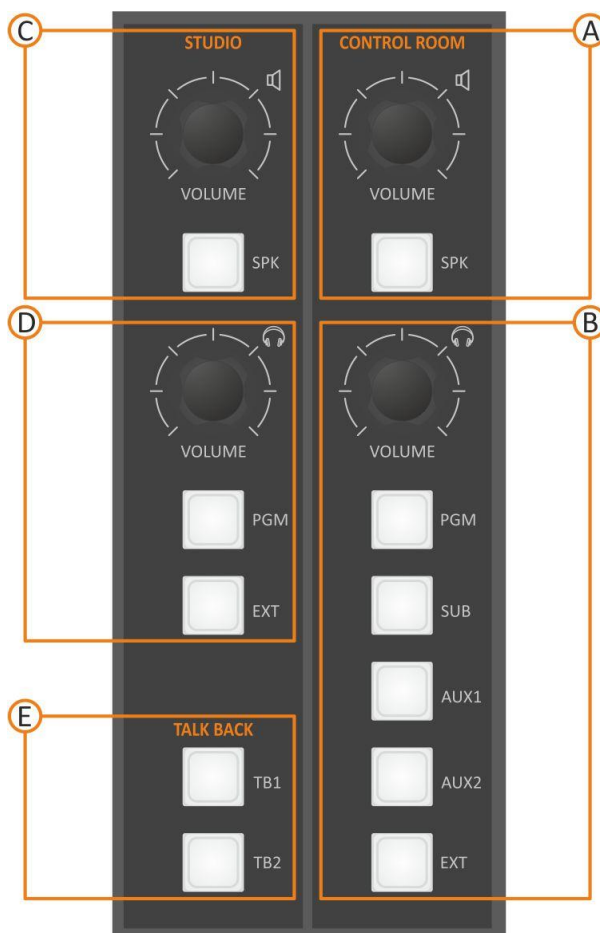


This section is useful for the management of the Studio Speakers.
The encoder allows you to amplify/attenuate the selected signal in the Speakers.
The Speakers level is displayed in the bottom-right section.

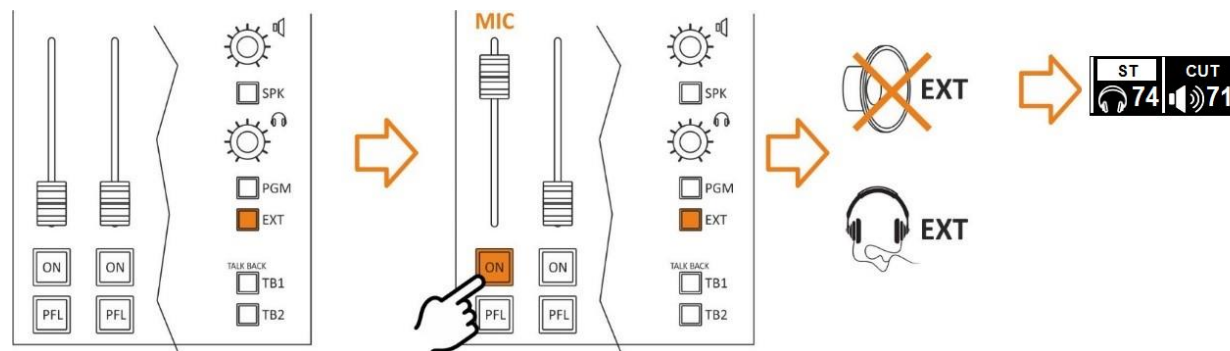


The Speakers audio level goes from 0 to 99 like for the Control Room Speakers. 99 is the maximum allowed level.
The step of the speakers adjustment is 1 dB and the level goes from -80 dB to the maximum of +19dB.
By setting the level on 80 dB we will have a total output level of 0dB.
By pressing the Encoder is possible to put the OUTPUT on MUTE. By pressing the same encoder again is possible to restore the OUTPUT signal. A red cross on the SPEAKER icon indicates MUTE-SPK state.





If a MIC-source is turned up, the speakers are closed automatically (CUT MODE).
In the CUT mode the SPK function is disabled.

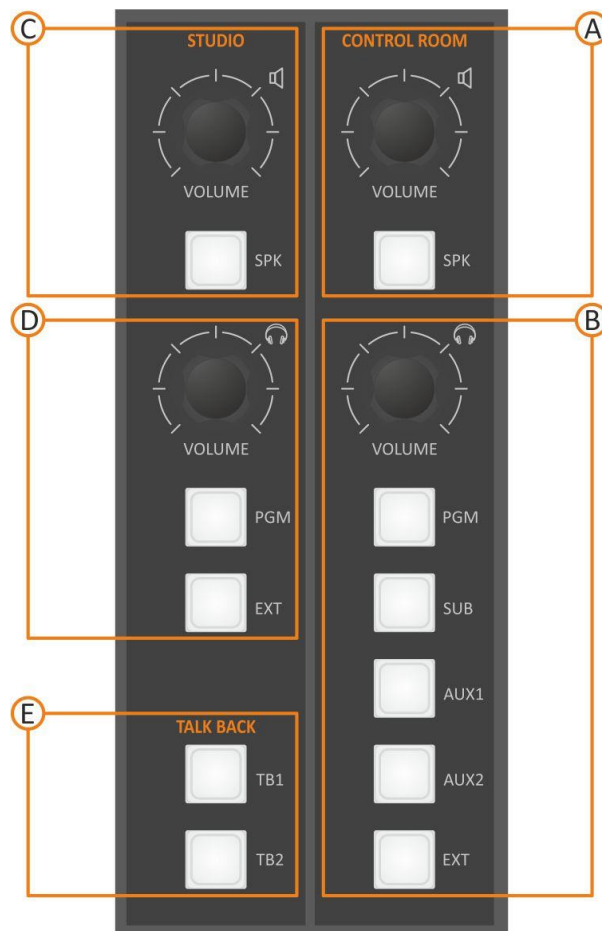


If the CUT function is recalled, the SPEAKER selection is disabled and only the Headphone state is displayed.
It is possible to select the SPEAKER source only out of the CUT mode.

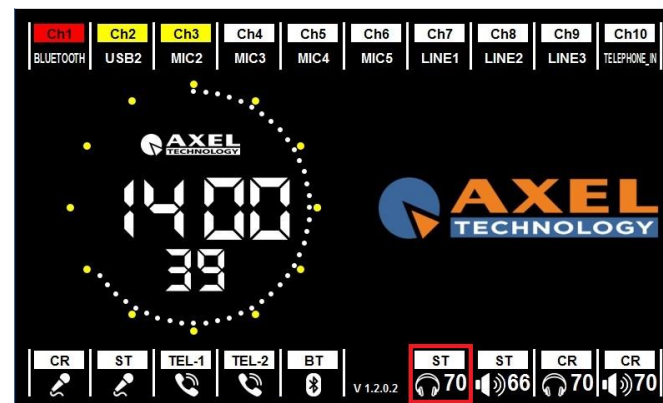
When a MIC-source is turned UP/ON the CUT mode is turned ON and C-ROOM/STUDIO SPEAKERS will be closed automatically.

To avoid any kind of LARSEN effect, CUT mode is a function associated only with the SPEAKERS.
To set the MIC on which you want to apply the CUT mode go to CUT SOURCE of the GENERAL > AUDIO > OUTPUTS > MONITOR > SPEAKER > SPK-STUDIO
This option allows the MULTIPLE SELECTION, it is possible to select more than one source.

9.1.6D STUDIO – HEADPHONES SOURCES & LEVELS



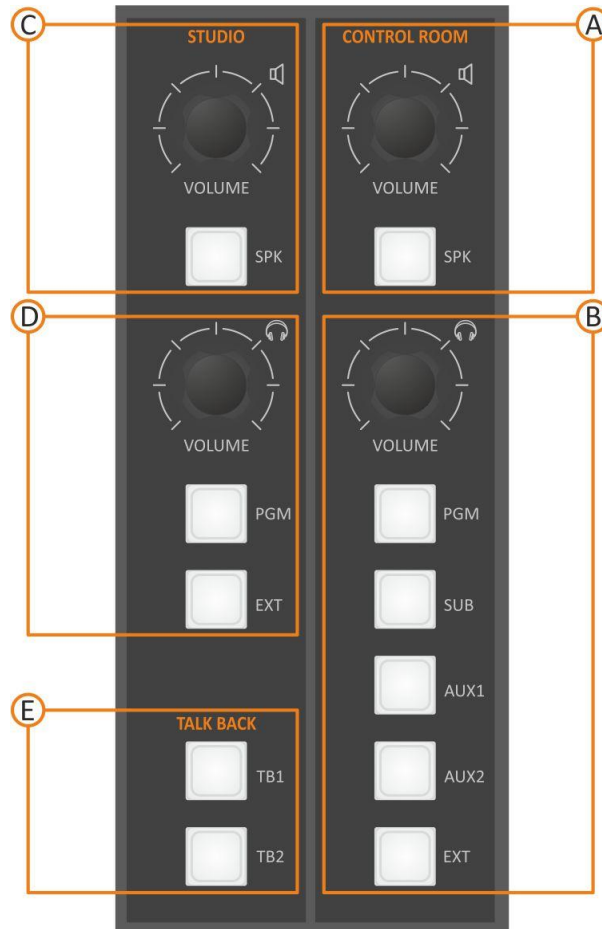
This section is useful for the management of the Headphones Sources and Levels. The encoder allows you to amplify/attenuate the selected signal in the Headphone like for the Control Room section. The Headphones level is displayed in the bottom-right section.



The Headphones audio level goes from 0 to 99 like for the Control Room Headphones. 99 is the maximum allowed level. The step of the headphones adjustment is 1 dB and the level goes from -80 dB to the maximum of +19dB. By setting the level on 80 dB we will have a total output level of 0dB.

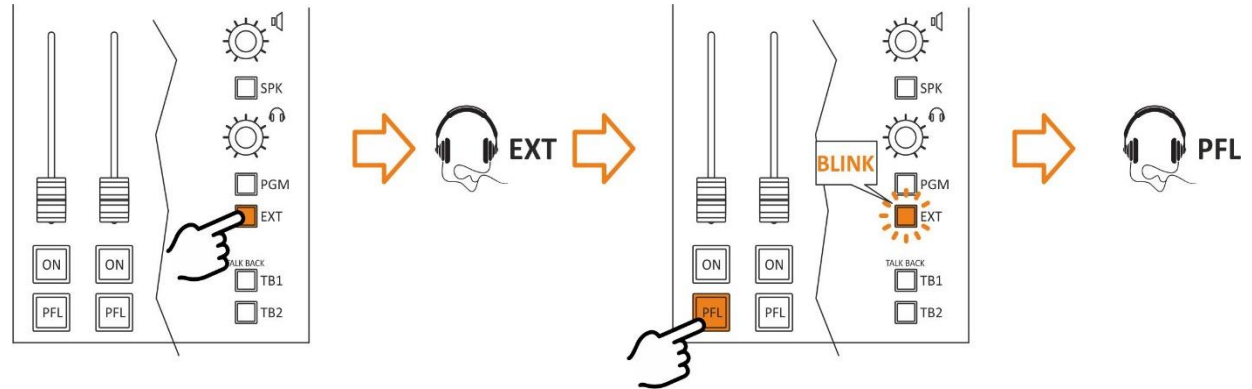
By pressing the Encoder is possible to put the OUTPUT on MUTE. By pressing the same encoder again is possible to restore the OUTPUT signal. A red cross on the HEADPHONES icon indicates MUTE-HDP state.



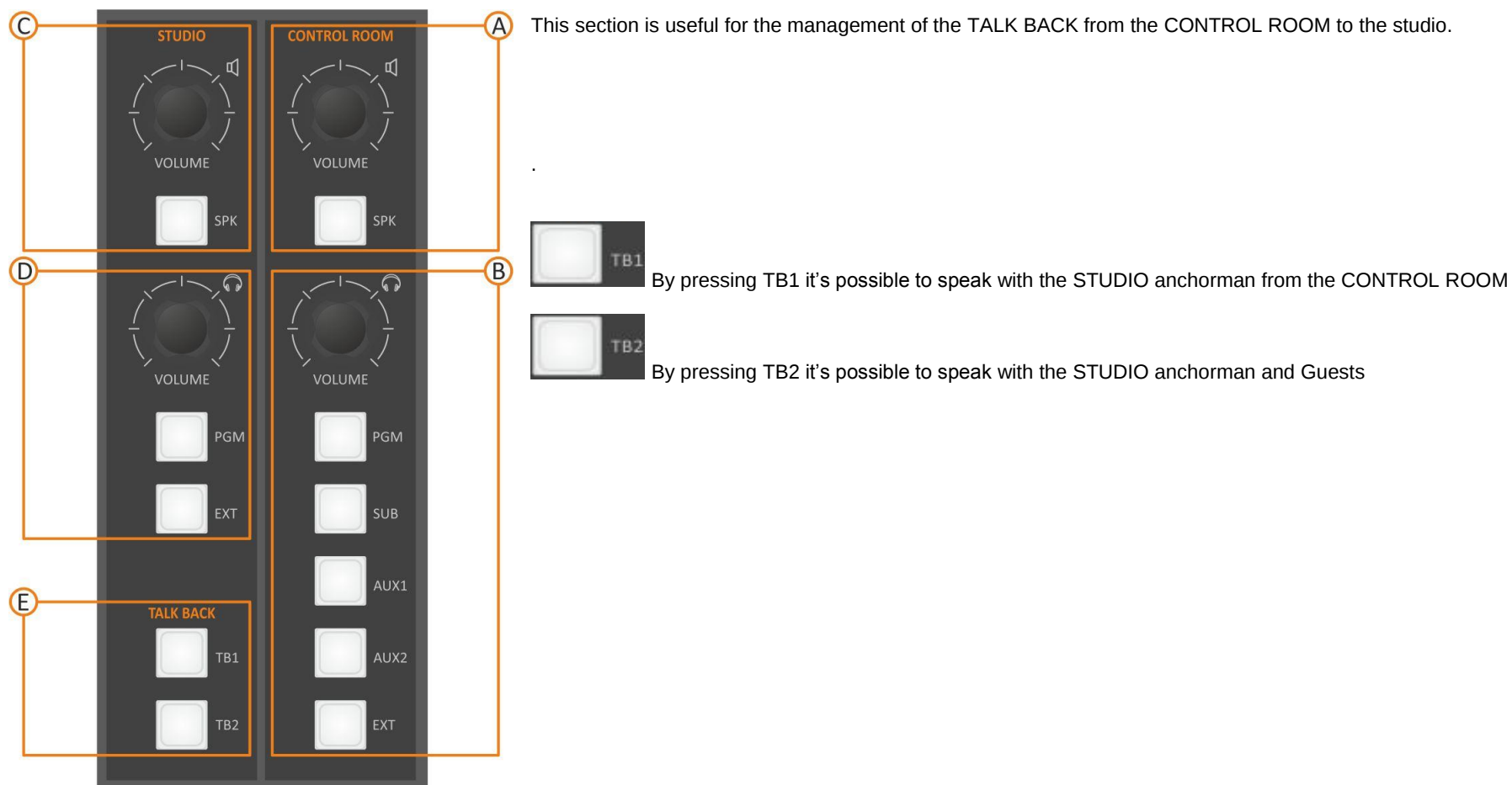


1SEL or PFL

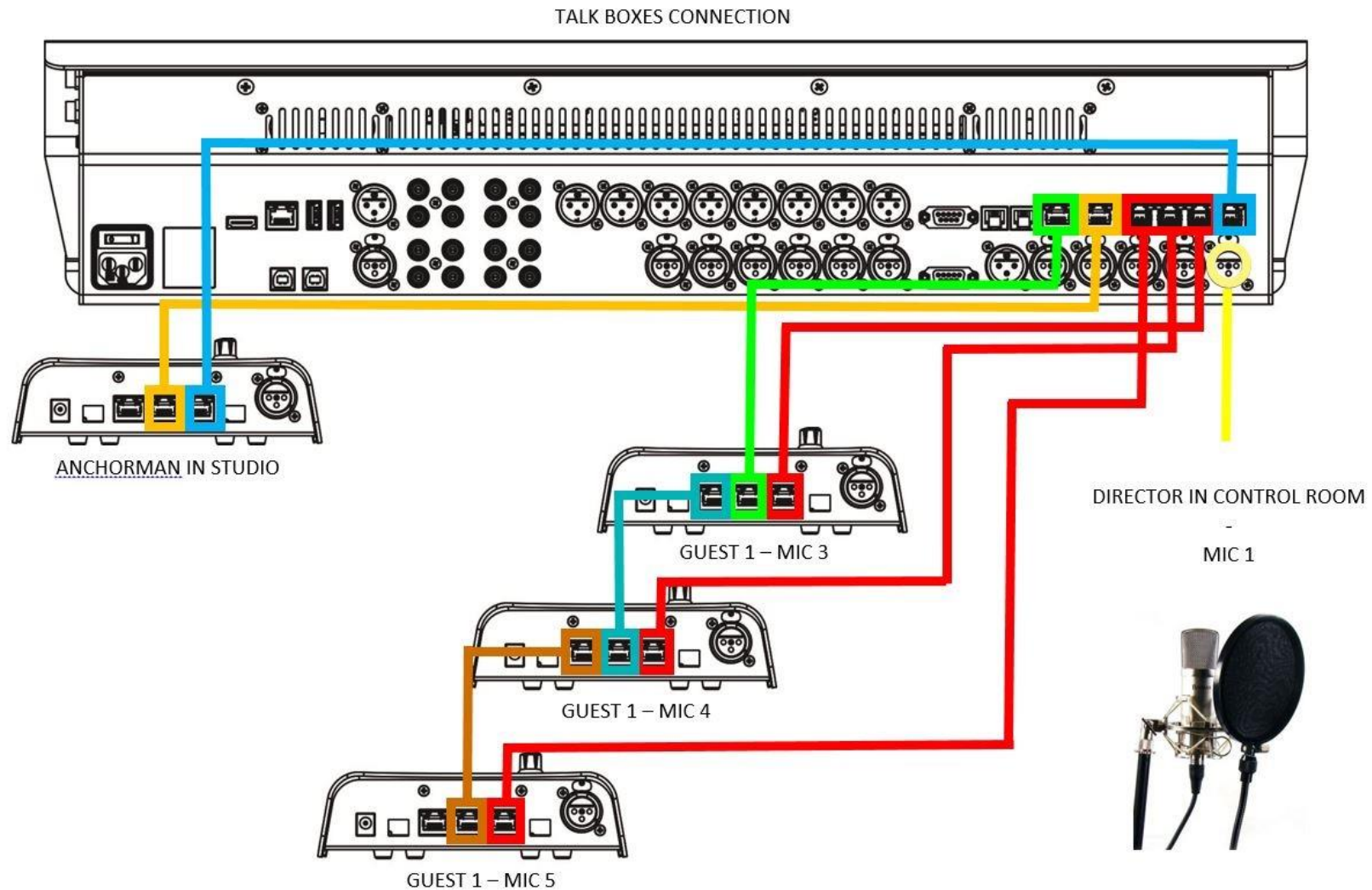
Normally Headphones listen the selected source like the speakers.
If PFL is pressed, headphones can listen it, speakers no.
The selected source will start blinking.



9.1.6E TALK BACK – FROM CONTROL ROOM TO THE STUDIO



9.1.7 TALK BOX CONNECTIONS AND FUNCTIONING



On the Oxygen 3000 it is possible to connect a maximum of 4 Talk boxes.
Every Talk Box is physically connected with a Mixer MIC-source.

MIC2-> TB2
MIC3-> TB3
MIC4-> TB4
MIC5-> TB5*

*MIC 5 works as a LINE input. It is designed to be a Telco input. To use it as a normal MIC you have to amplify the signal of +16 dB.

Each Talk Box has two buttons corresponding to two GPI and lamps corresponding to two GPO. The two GPI correspond to ON AIR button and Talkback:

ON-AIR Button

The ON-AIR button works parallelly with the ON/START mixer button.

If the MIC is in ON state on the MIXER, it is possible to disable the MIC from the Talkbox and vice versa. The GPI is in the RJ45 MIC connector.

ON AIR LIGHT - MIC

The MIC ON-AIR light reflects the MIXER ON/START BUTTON. When the Channel is in ON state the MIC ON AIR light is on, when the Channel is in OFF state the MIC ON AIR light is off. This GPO is in the RJ45 MIC connector.

ON AIR LIGHT -STUDIO

The STUDIO light reflects the logical operation (OR) between all Studio Microphones. If either or all the Studio Microphone/s is/were ON the light should be on, the light should be OFF only when all Microphones are OFF.

This GPO is in the RJ45 MIC connector.

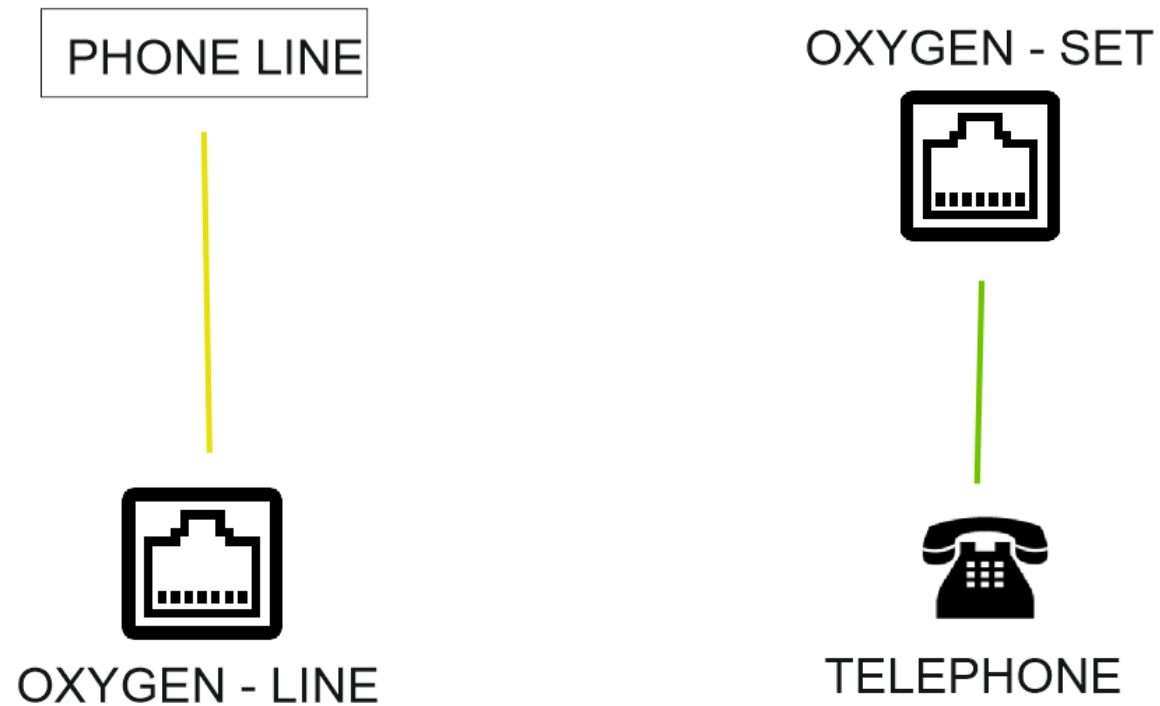
TB Button

On each Talk Box, the TB button pressure sends the related mic signals to the Control Room SPEAKERS/HEADPHONES.

The TB button works in an impulsive way. When the TB button pressure stops also the communication with the Control-Room will be stopped.

If you have a Talk Back signal, speakers or headphones will stay connected with the MIC source until you stop the TB button pression.

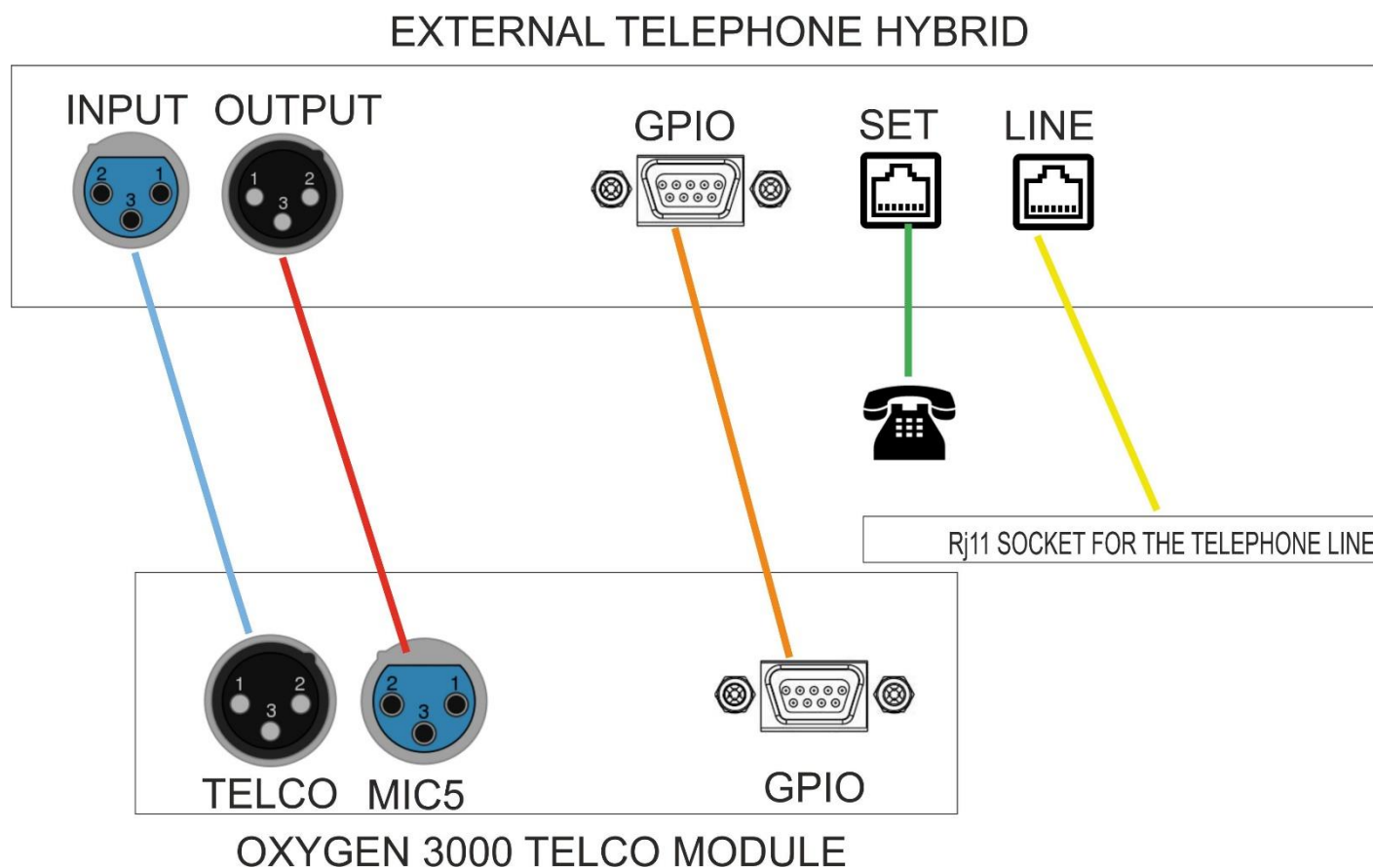
9.1.8 TELEPHONE MODULE – CONNECTIONS WITH THE INTERNAL HYBRID MODULE



If the line is well connected, you have to associate the TELEPHONE IN source to a Mixer Channel. When you will receive a phone call press F1 of the selected Channel to hook the line.

By pressing PFL you can speak in private to the caller with the MIC 1.

9.1.9 TELCO MODULE - EXTERNAL TELEPHONE HYBRID CONNECTIONS



If you want to connect the TELCO MODULE with one of the Axel Technology telephone hybrids (BOXTTEL MKII, MACROTEL X1 X2, PHONEX D1 D2) Axel will give you a special DE9P cable.

If you want to connect the TELCO MODULE with a third parties hybrid, Axel will send to you a scheme to create the special DE9P cable.
By pressing PFL you can speak in private to the radiolister with the MIC1.

9.1.10 BLUETOOTH



The device is in pairing mode after a fast pression (< 1 sec) of the Bluetooth button. It starts to blink.

search for the Oxygen3000D-XXXX in Bluetooth device menu and connect with it. Once the device is connected the blue light stops blinking



Press the desired SET button and search for Bluetooth in the source menu. (In example SET button of the 4 ch).

Press the desired BUS on the channel (in example PGM)

now start the audio streaming (music, audio from YouTube/Music Player) or the phonecall (Call/Skype Call/WhatsApp Call) from the

with a long Bluetooth button pression you will disconnect the device.

If you turn on again the Bluetooth in the device and if the device is still associated with the console, it will be automatically paired. You will see a fixed blue light

9.1.11 CONNECTIVITY FEATURES

9.1.11.1 SELECTABLE SOURCES

On Oxygen 3000 it is possible to assign simultaneously the same source with different channels.
In example this function is useful to prelisten a source that was already assigned to a ChB of another Channel.
This function is useful also to have a prelisten of one of the two VJPRO sources.

Attention: if you simultaneously air the same source on different channels, the final BUS level depends on the two channels BUS configurations and on the fader levels.

9.1.11.2 PHONE STATES – MIC1: “PRIVATE” FEATURE FOR THE COMMUNICATION TO TELCO/TELEPHONE/BLUETOOTH PHONECALL

These three different kind of implementations were been grouped altogether, in fact they have similarities in the source side.
3 kind of telephone connection are available on Oxygen 3000:
- Telephone Hybrid / Telco / Bluetooth

The Bluetooth has two functioning ways:

- Microphone TX(Mono)-RX(Mono) Interface for telephone communication (in example Skype)
- RX (Stereo) interface for file/streaming player...

Now, we are going to analyze a normal call (in example with the internal telephone hybrid):

In the presence of an incoming call the F1 button starts blinking,
By pressing F1 is possible to hook the call.
aggancio la linea tramite la pressione del tasto F1.

- F1 LED off – the line is not hooked
- F1 LED blinks – RING – there is an incoming call
- F1 LED on – the line is hooked
- by pressing F1 is possible to hook the line.
- by pressing F1 a second time you drop the line.

NOTE: the autodrop mod is not implemented intentionally

NOTE: The RING/HOOK behaviour is the same for the three interfaces.

If you use the internal telephone hybrid you have to manage some settings like:

- country
- Tel Set

Once a phonecall is hooked the received audio is managed like all other sources; PFL/BUS works standardly.
Differently from normal sources, these three telephone sources need to send back an audio TX to the caller/radio listener.

The TX audio has two different functioning ways:

- 1 – private mode (with channel PFL ON)
- 2 – onair mode (with channel PFL OFF)

When you want to speak privately with a caller just press the TELEPHONE IN PFL.

MIC1 is the input dedicated to the communication with the caller. Like the Talkback it is not ruled by the ON/START button or by the fader level. The listener will always listen for the MIC1.

When the channel PFL is disabled, the ONAIR MODE is ON (one of the two following condition):

TELEPHONE CHANNEL



OR

AIRER TELEPHONE CHANNEL



The signal sent to the caller will be the sum N-1 of the all selected BUSS in ON/START state (all channels in the following state):
the Telephone Channel will not be sent back to the caller.

AIRED CHANNEL (IN EXAMPLE: PLAYOUT CHANNEL)



The N-1 signal is always sent to the listener also when the TELEPHONE CHANNEL is OFF or when its Fader is lowered (as explained by the following picture).

TELEPHONE CHANNEL

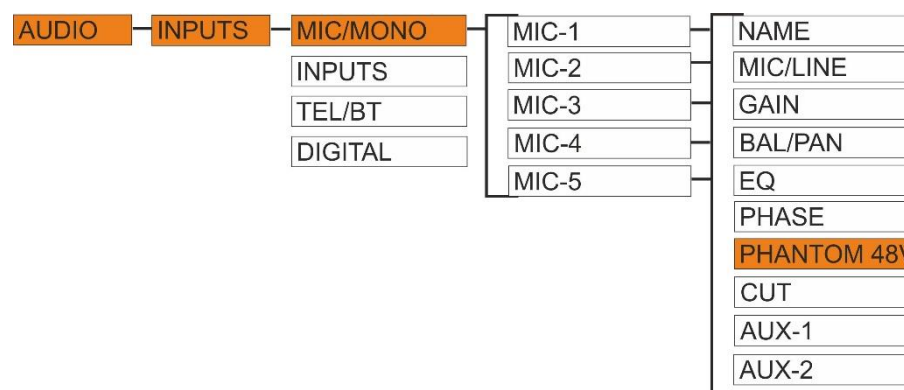


9.1.11.3 MIC5 INPUT: TELCO INPUT

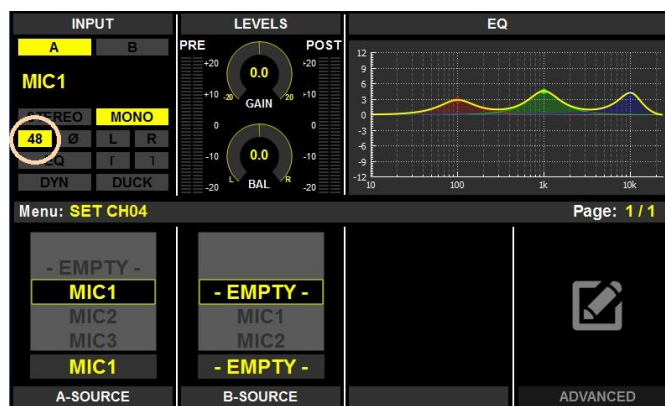
On the Oxygen 3000 The TELCO input is MIC5.
MIC 5 input does not work with normal Microphones.
If needed it can work only with preamplified microphones.

9.1.11.4 CONDENSER MIC MANAGEMENT, +48V PHANTOM SUPPLY AND SINGLE SECTIONING

Only on Microphones it is possible to enable/disable the Phantom Power from the following menu:

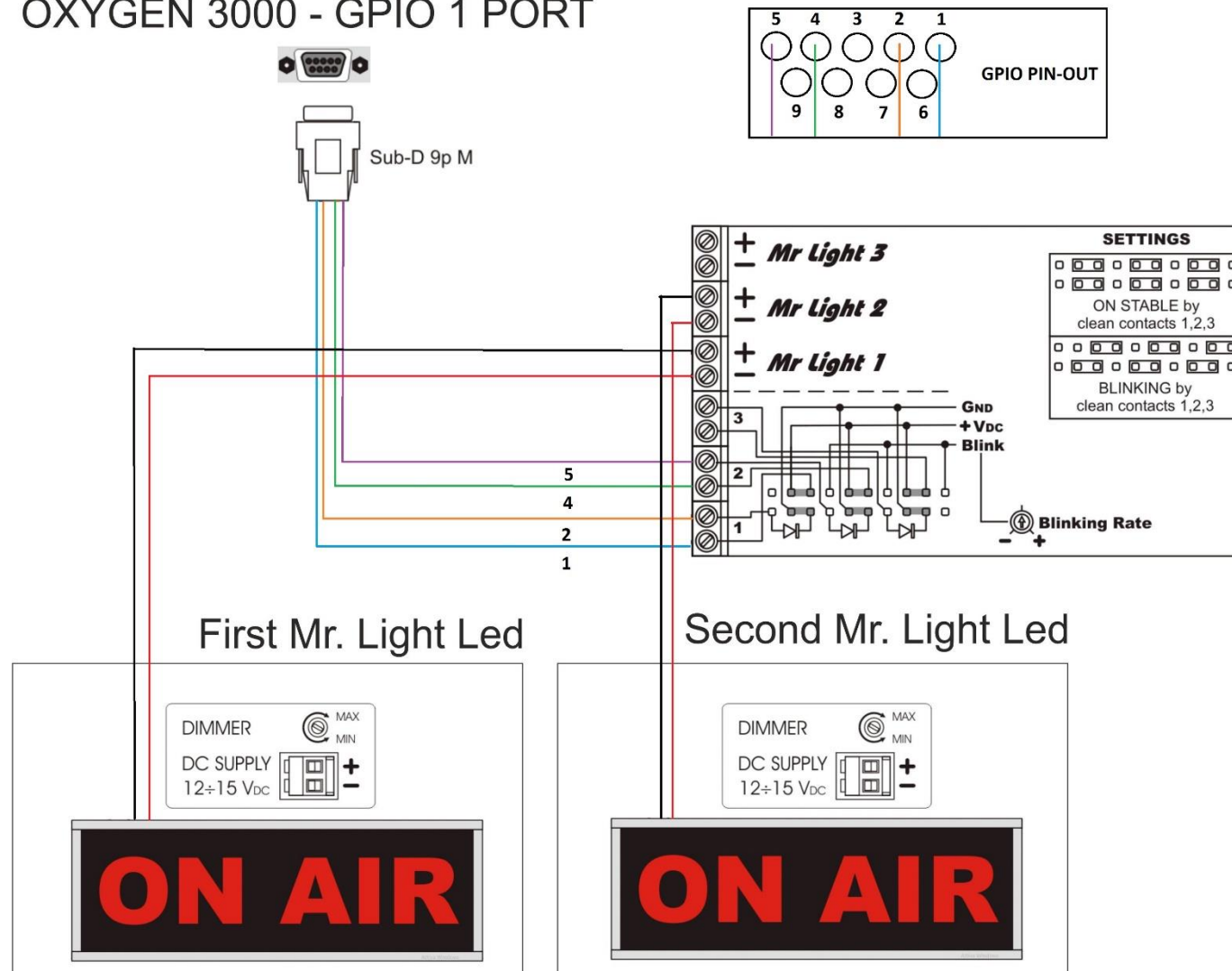


The Phantom is shown in the channel Set Panel.



9.1.12 OXYGEN 3000 & MR. LIGHT – ONAIR LAMP CONNECTION

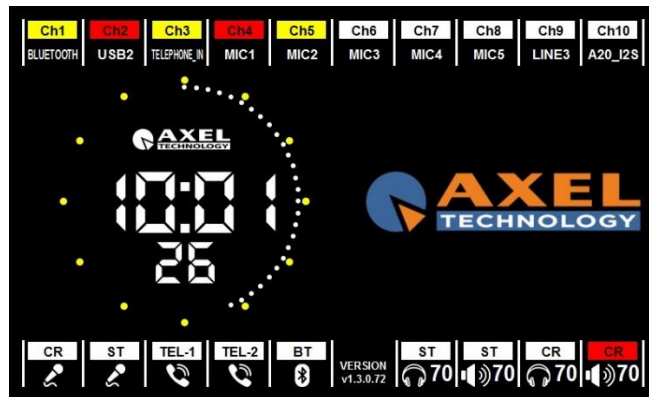
OXYGEN 3000 - GPIO 1 PORT



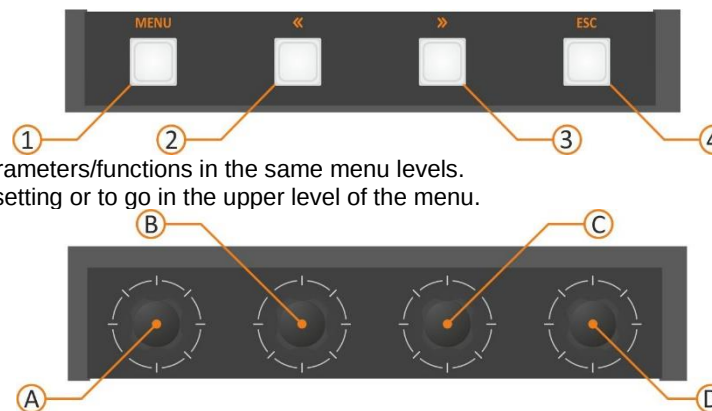
10 MENÙ MIXER

10.1 HOME PAGE

This is the HOME of the Oxygen 3000D, the technician sees this graphic interface when no function is recalled.



To set the Mixer and its parameters you can use the display and the 4 encoder(knobs)+push button and the 4 menu buttons. By pressing Menu (1) button you can easily access to the configuration menu.

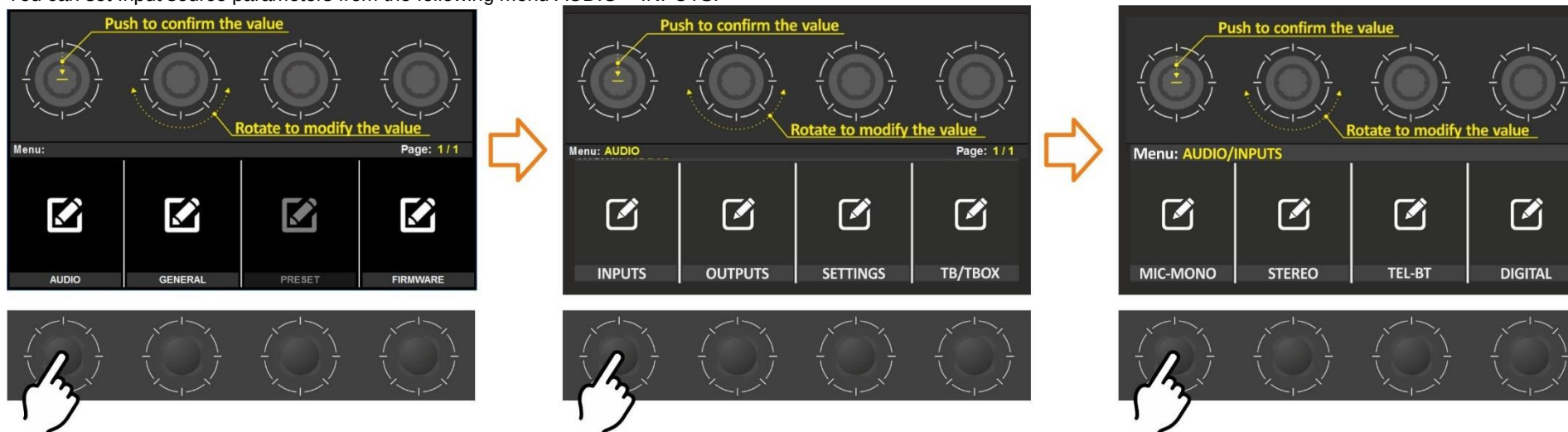


>> and << (2) (3) buttons allow you to move between parameters/functions in the same menu levels. The ESC (4) button allows you to exit from a parameter setting or to go in the upper level of the menu.

The 4 Encoders (A) (B) (C) (D) allows to adjust and to confirm the menu parameters. Every encoder is featured of a PUSH BUTTON, used to confirm the parameter setting. Menus were appositely designed to have a physical correspondance between graphics and the related encoder.

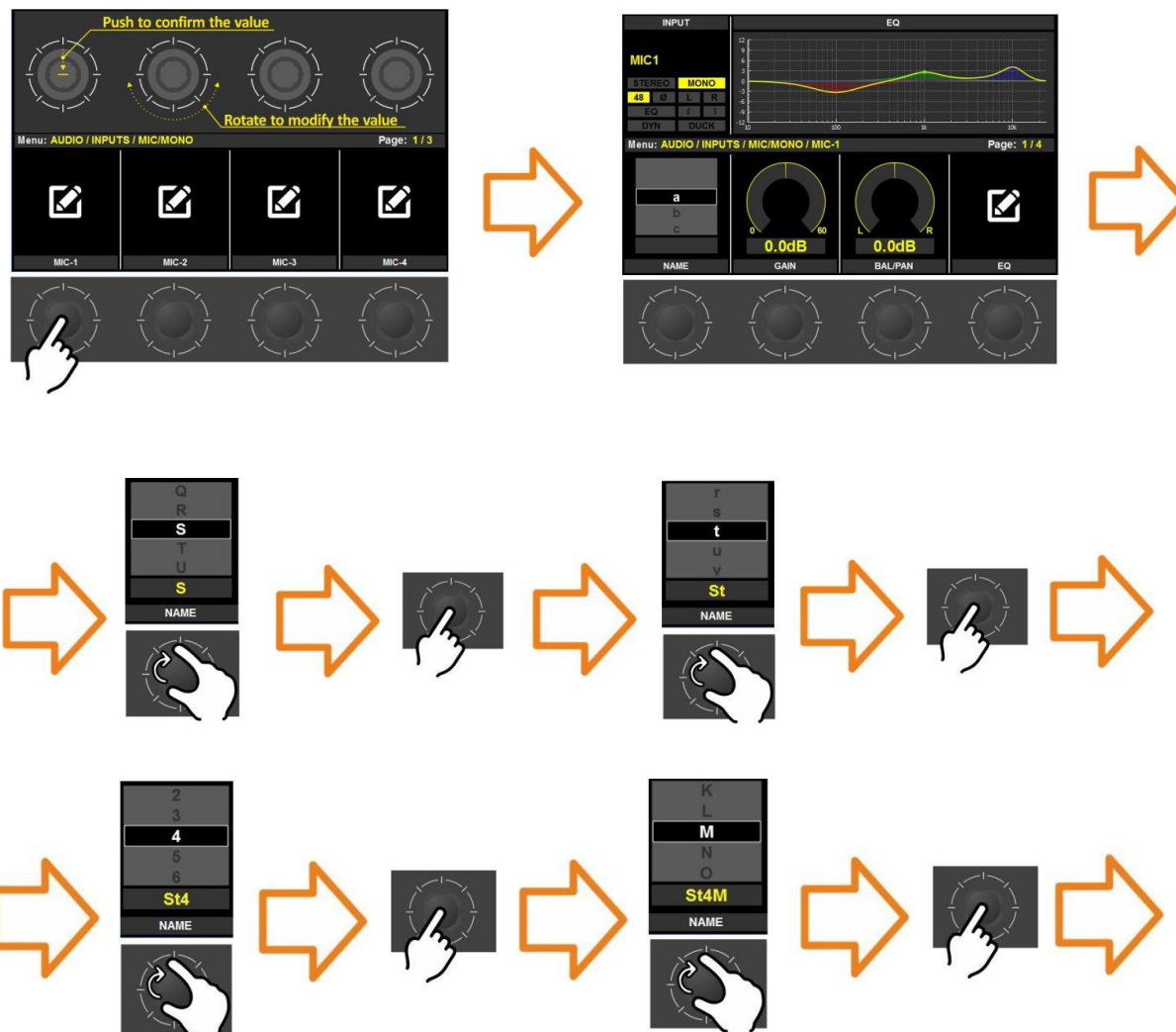
10.2 AUDIO/INPUTS/INPUT TYPE/SELECTED INPUT

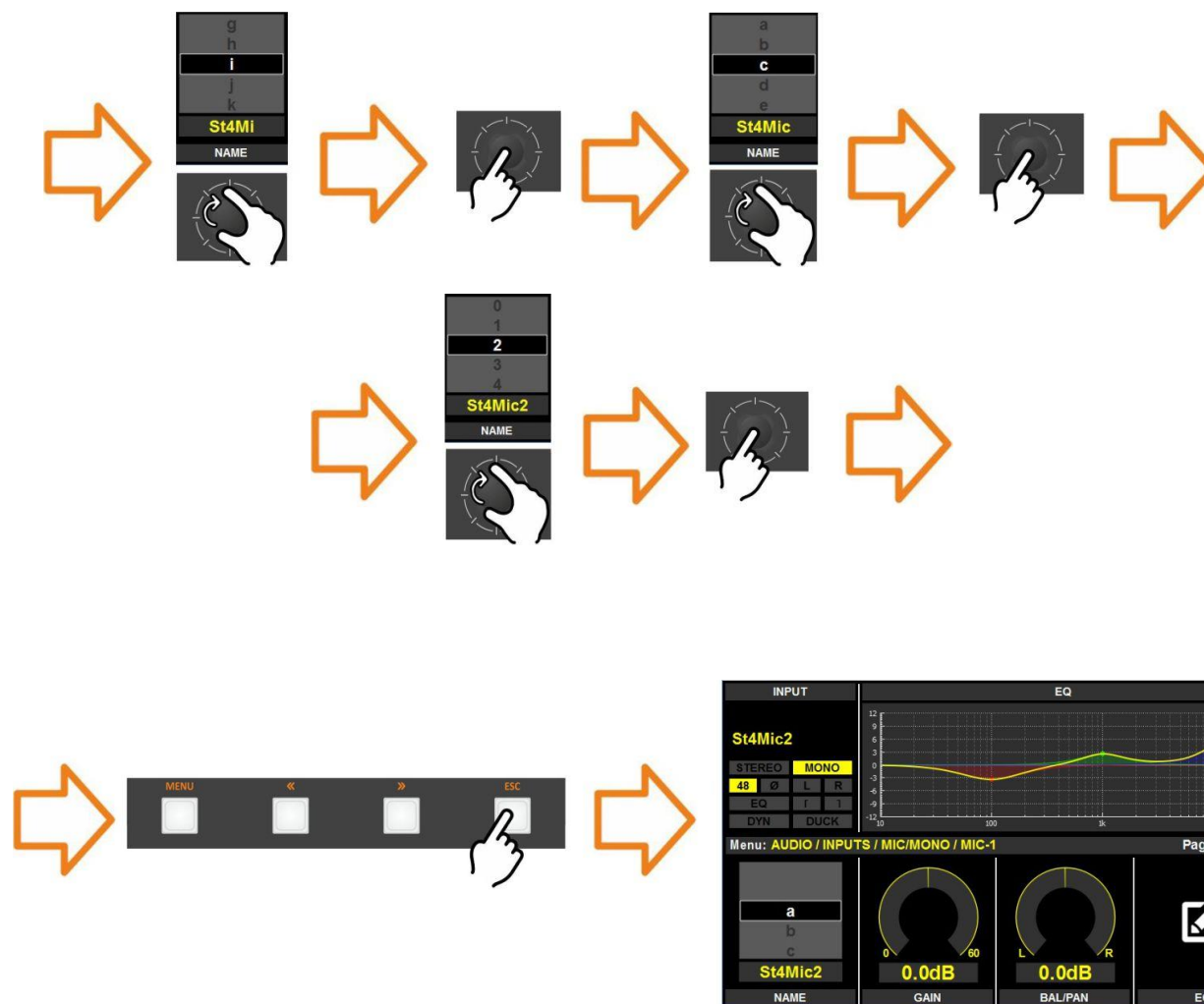
You can set Input source parameters from the following menu AUDIO > INPUTS:



10.2.1 AUDIO/INPUTS/INPUT TYPE/SELECTED INPUT/NAME

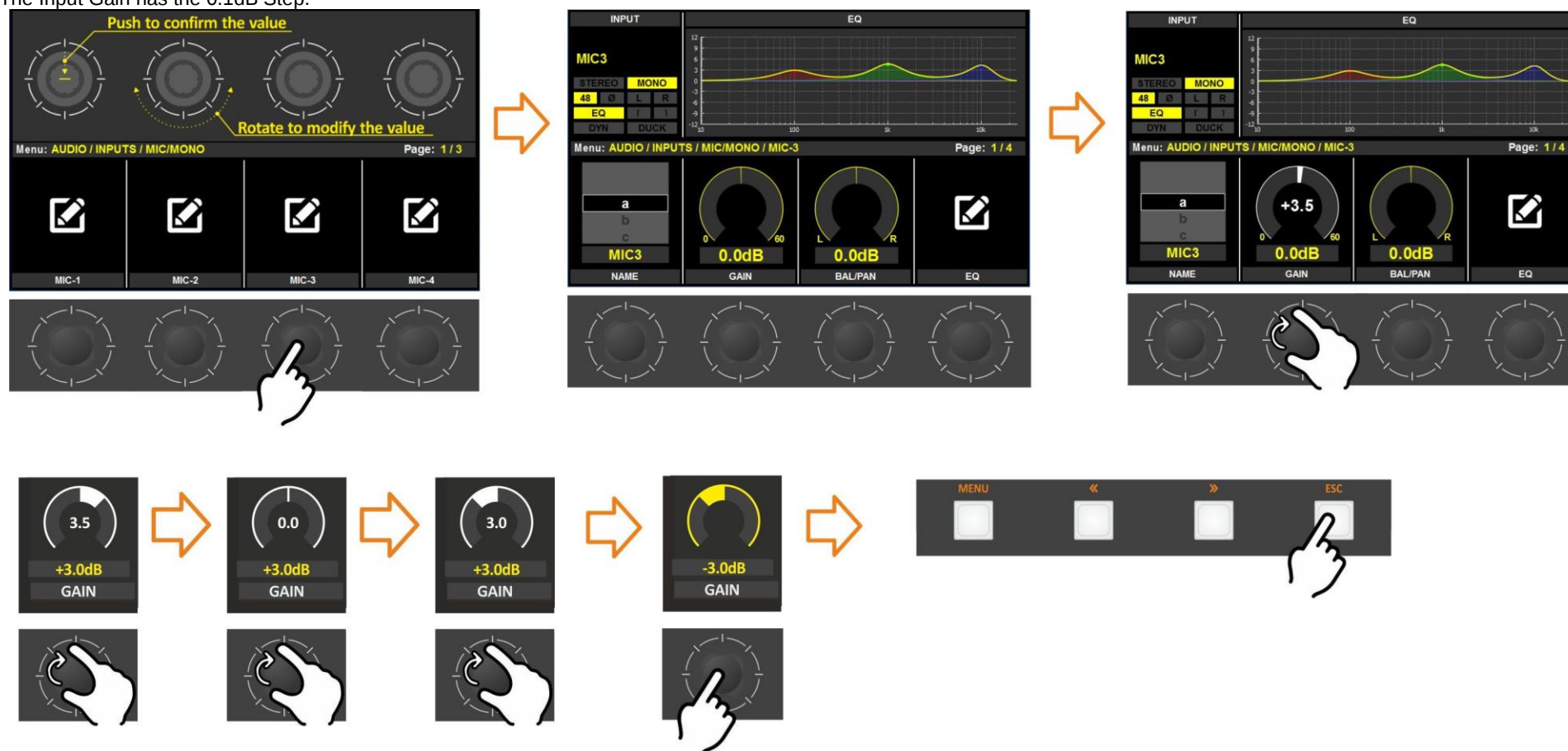
You can customize the Input name as you prefer by following the next procedure description. The description work the same for all the Inputs. (In the example we are going to give to MIC1 the customized name ST4MIC2)





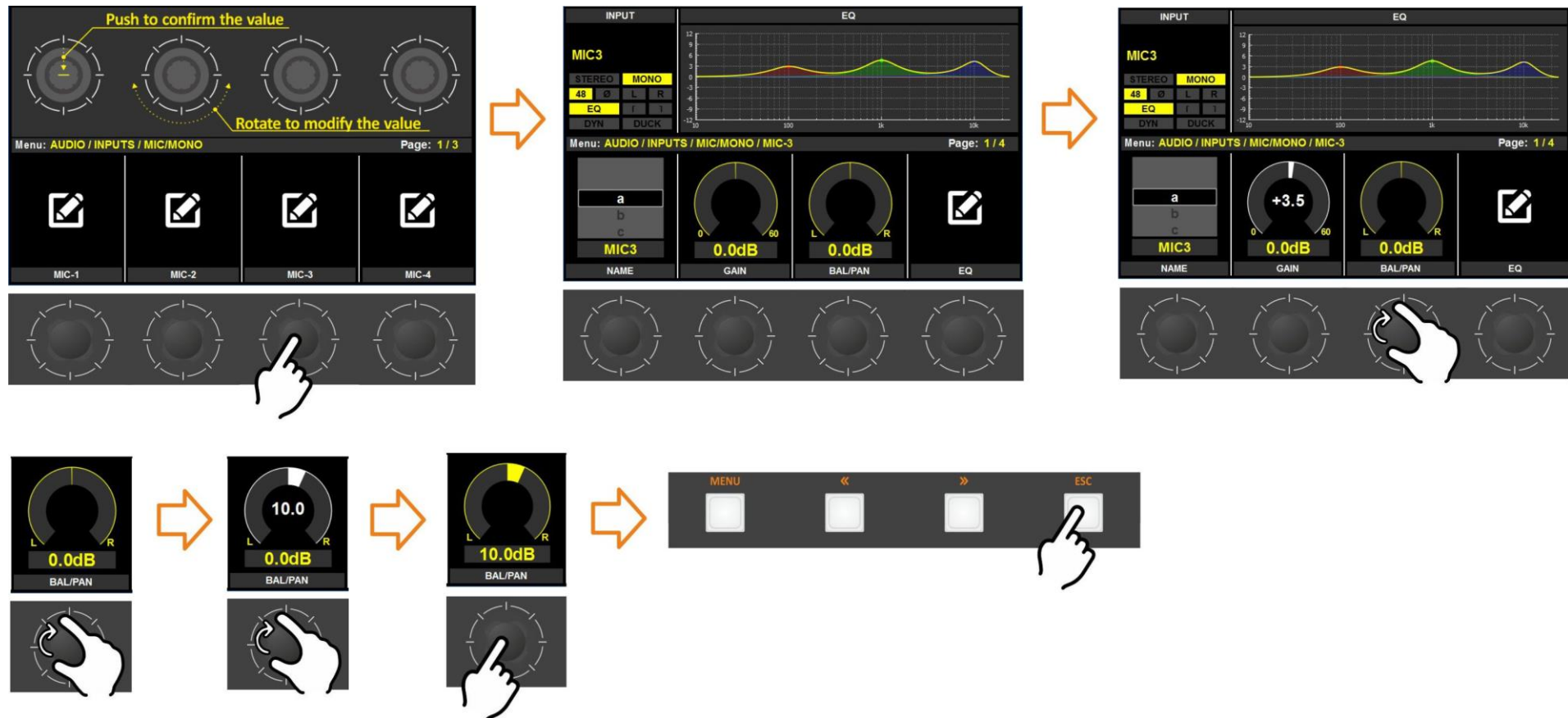
10.2.2 AUDIO/INPUTS/INPUT TYPE/SELECTED INPUT/GAIN

This parameter helps to adjust the input GAIN, allowing you to reach the audio source at the right audio level for the signal airing. The Input Gain has the 0.1dB Step.



N.B.: When you adjust the GAIN parameter, you have a real time change of the parameter value, and the real time perception of the GAIN change. The Graphics will become white to indicate the parameter change, and it will become yellow again after the confirmation.

10.2.3 AUDIO/INPUTS/INPUT TYPE/SELECTED INPUT/BAL-PAN



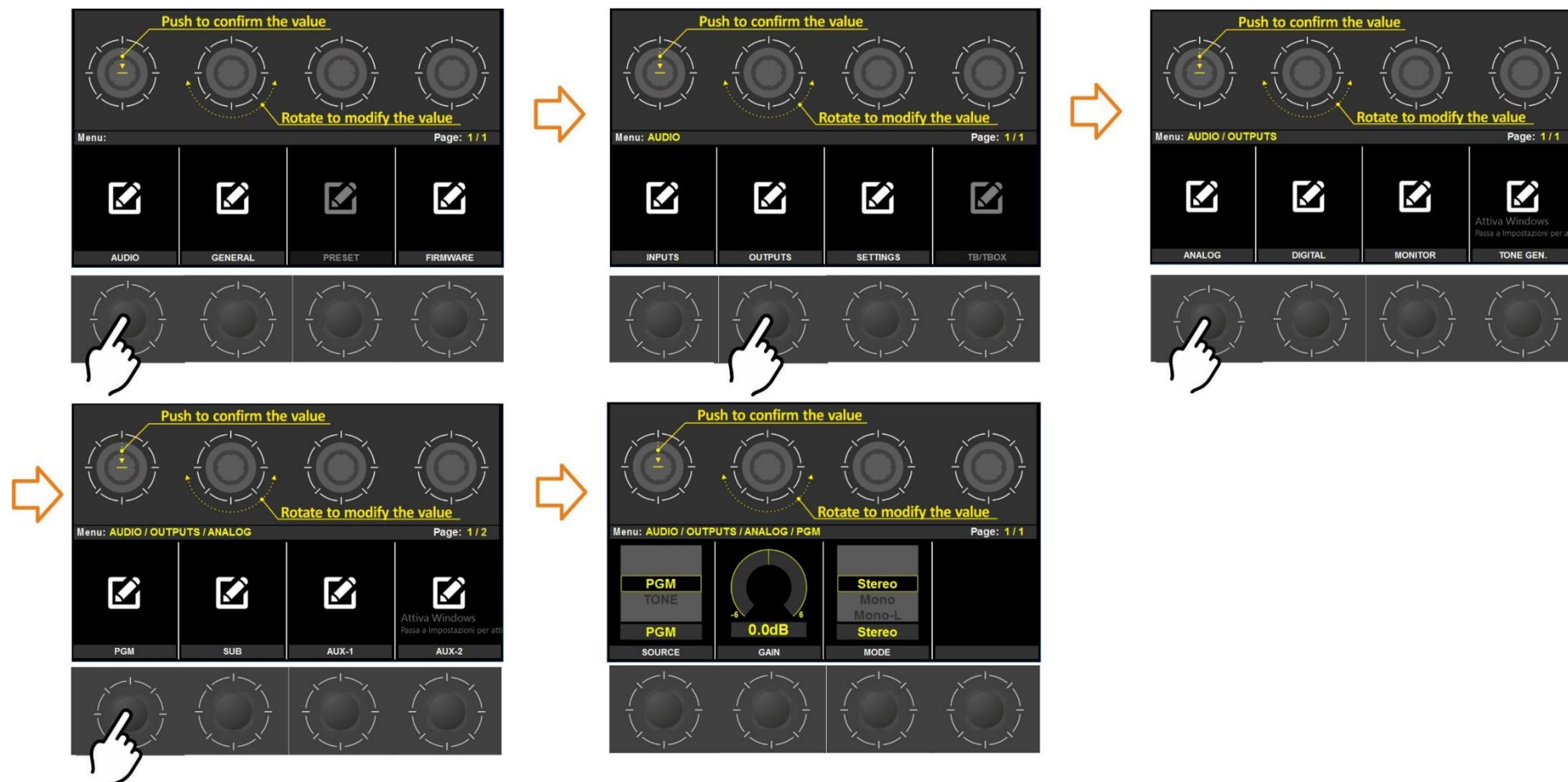
This parameter change the Input BAL/PAN.

The parameter has a 5% step.

N.B.: When you adjust the BAL/PAN parameter, you have a real time change of the parameter value, and the real time perception of the BAL/PAN change. The Graphics will become white to indicate the parameter change, and it will become yellow again after the confirmation.

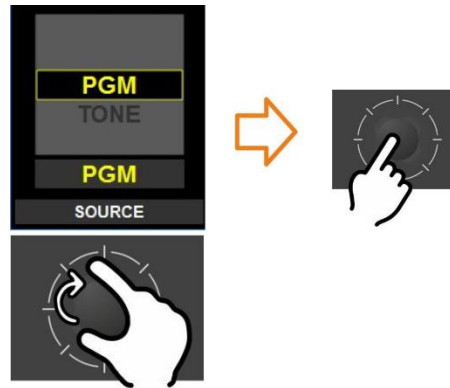
10.3 AUDIO/OUTPUTS/ANALOG(DIGITAL)/SELECTED OUTPUT

By following the below procedure you can set all the OUTPUT parameters. Go in the AUDIO > OUTPUTS screen. You can choose between 4 different OUTPUTS categories: ANALOG, DIGITAL, MONITOR & TONE GEN. (TONE GENERATOR). In this section we will study how to set ANALOG and DIGITAL categories because they work similarly. Precisely we are going to analyse the PGM Analogue output. It is possible to choose if in the output you want all the Channels in which is selected the PGM BUS, or if you want a TONE GENERATOR.



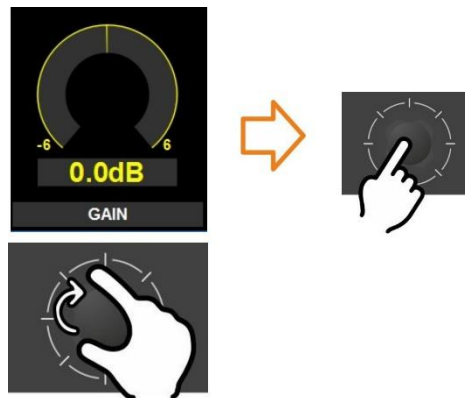
10.3.1 AUDIO/OUTPUTS/ANALOG(DIGITAL)/SELECTED OUTPUT/SOURCE

From the following parameter you can set for the SELECTED OUTPUT source (in this case PGM). By rotating the knob decide if in the output you want the all the PGM selected channels or if you want the TONE GENERATION.



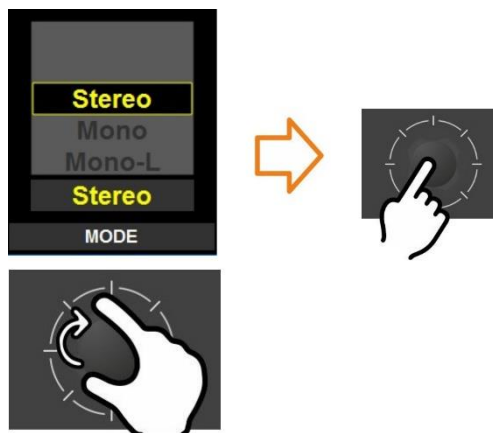
10.3.2 AUDIO/OUTPUTS/ANALOG(DIGITAL)/SELECTED OUTPUT/GAIN

From the following parameter you can set for the OUTPUT(in this case PGM) GAIN. By rotating the knob you can adjust the gain.



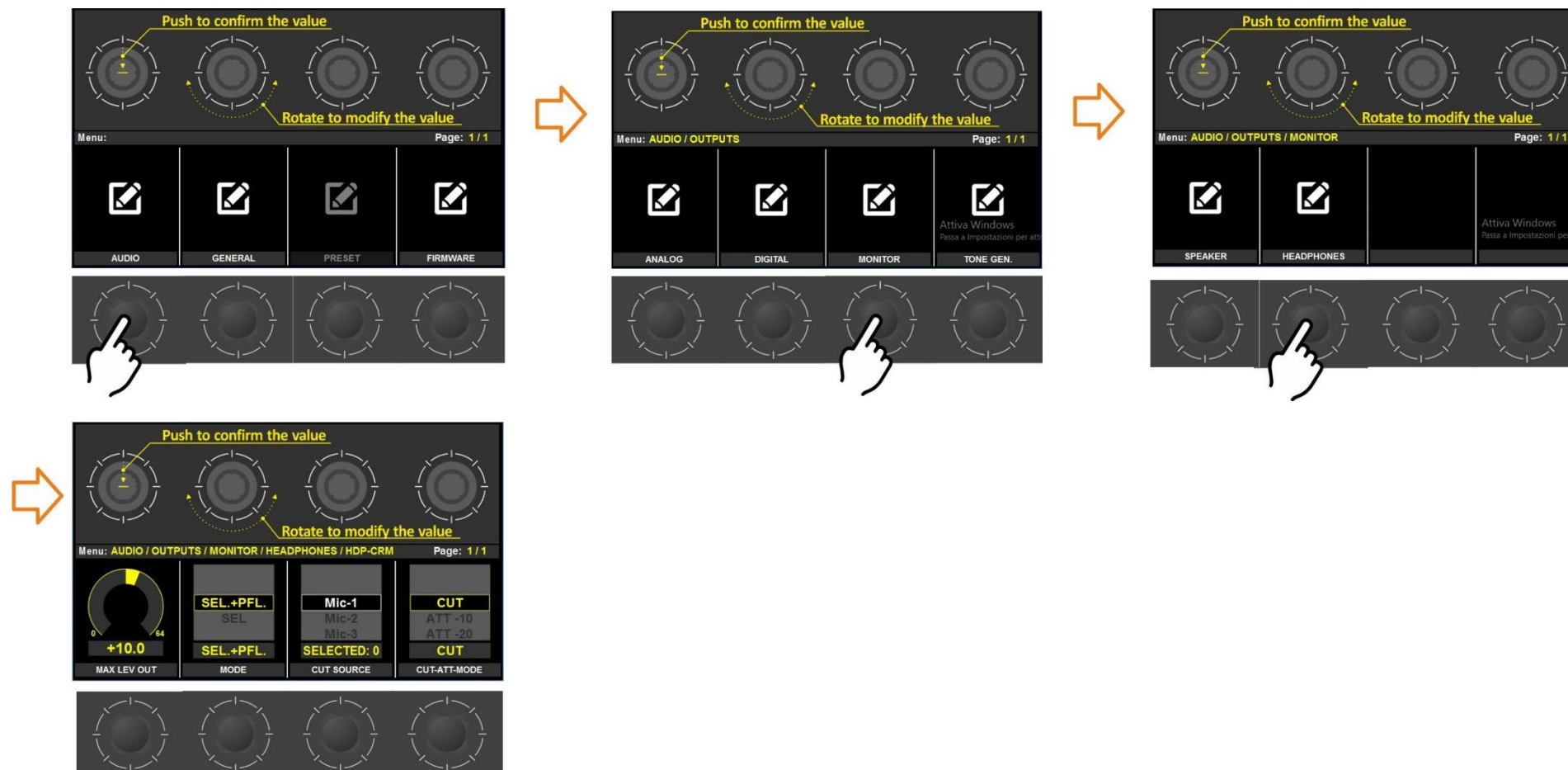
10.3.3 AUDIO/OUTPUTS/ANALOG(DIGITAL)/SELECTED OUTPUT/MODE

From the following parameter you can choose if you want your Output in STEREO MODE, MONO MODE, MONO-L MODE, MONO-R MODE.



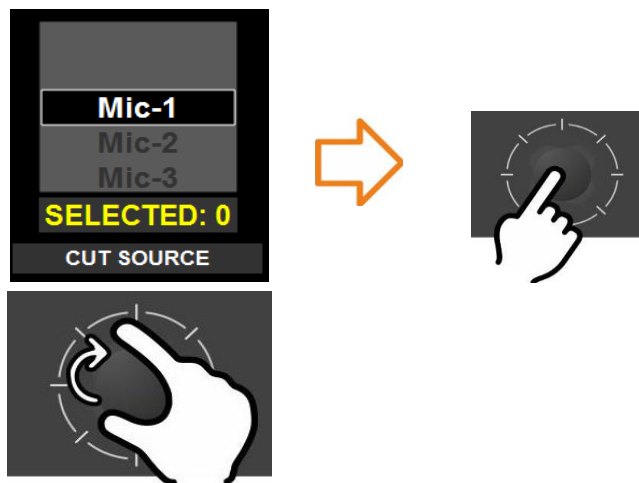
10.4 AUDIO/OUTPUTS/MONITOR/MONITOR TYPE(SPEAKER/HEADPHONES)/(CONTROL ROOM/STUDIO/GUESTS)

From the following menu you can set for all the parameters connected to MONITOR, speakers or headphones:



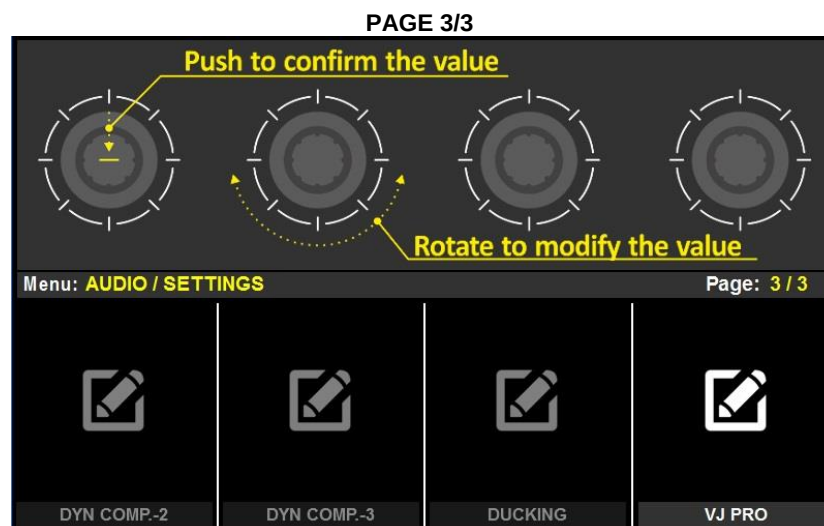
10.4.1 AUDIO/OUTPUTS/MONITOR/MONITOR TYPE(SPEAKER/HEADPHONES)/(CONTROL ROOM/STUDIO/GUESTS)/CUT SOURCE

From this Menu you can assign the MIC source that has to be CUT with the SPEAKERS (CR ROOM or STUDIO). This option allows the MULTIPLE SELECTION, it is possible to select more than one source.



10.5 AUDIO/SETTINGS

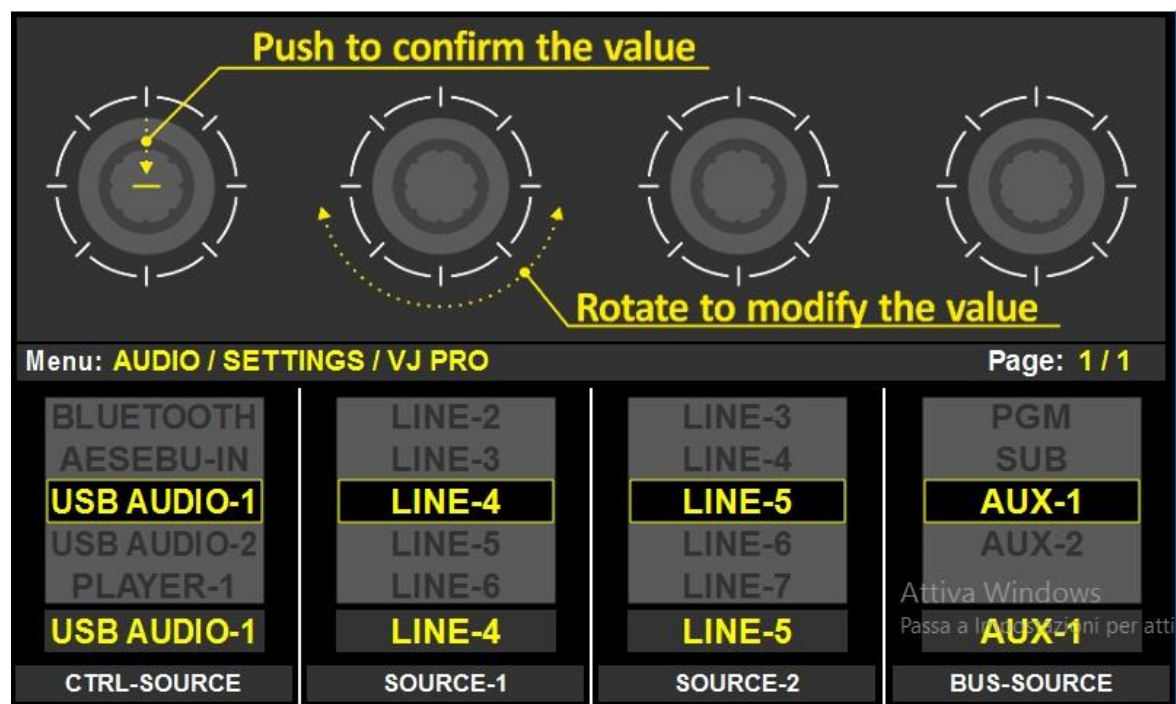
From the following section you can set all the parameters related with the Axel Technology VJPRO (Visual Radio solution).



10.5.1 AUDIO/SETTINGS/VJPRO

If you have the Axel Technology **VJPRO Console** software we suggest you to configure parameters as shown in the following picture.

- CTRL-SOURCE** - The **DJPro** (Radio side) audio source rooted automatically in the PGM. We suggest you to select **USB AUDIO-1**
- SOURCE-1** - First **VjPro Console** (TV side) audio source, in this channel you have a clip related with the DjPro song. The Audio rooting is specified by the last BUS-SOURCE parameter. We suggest you to select **LINE-4**.
- SOURCE-2** - Second **VjPro Console** (TV side) audio source, in this channel you have a preloaded clip of the LINE-4 next clip. Useful source if the radio song length is shorter than the TV clip length. The Audio rooting is specified by the last BUS-SOURCE parameter. We suggest you to select **LINE-5**
- BUS-SOURCE** - General TV audio BUS for SOURCE-1(LINE-4) and for SOURCE-2(LINE-5). We suggest you to select **AUX-1**.

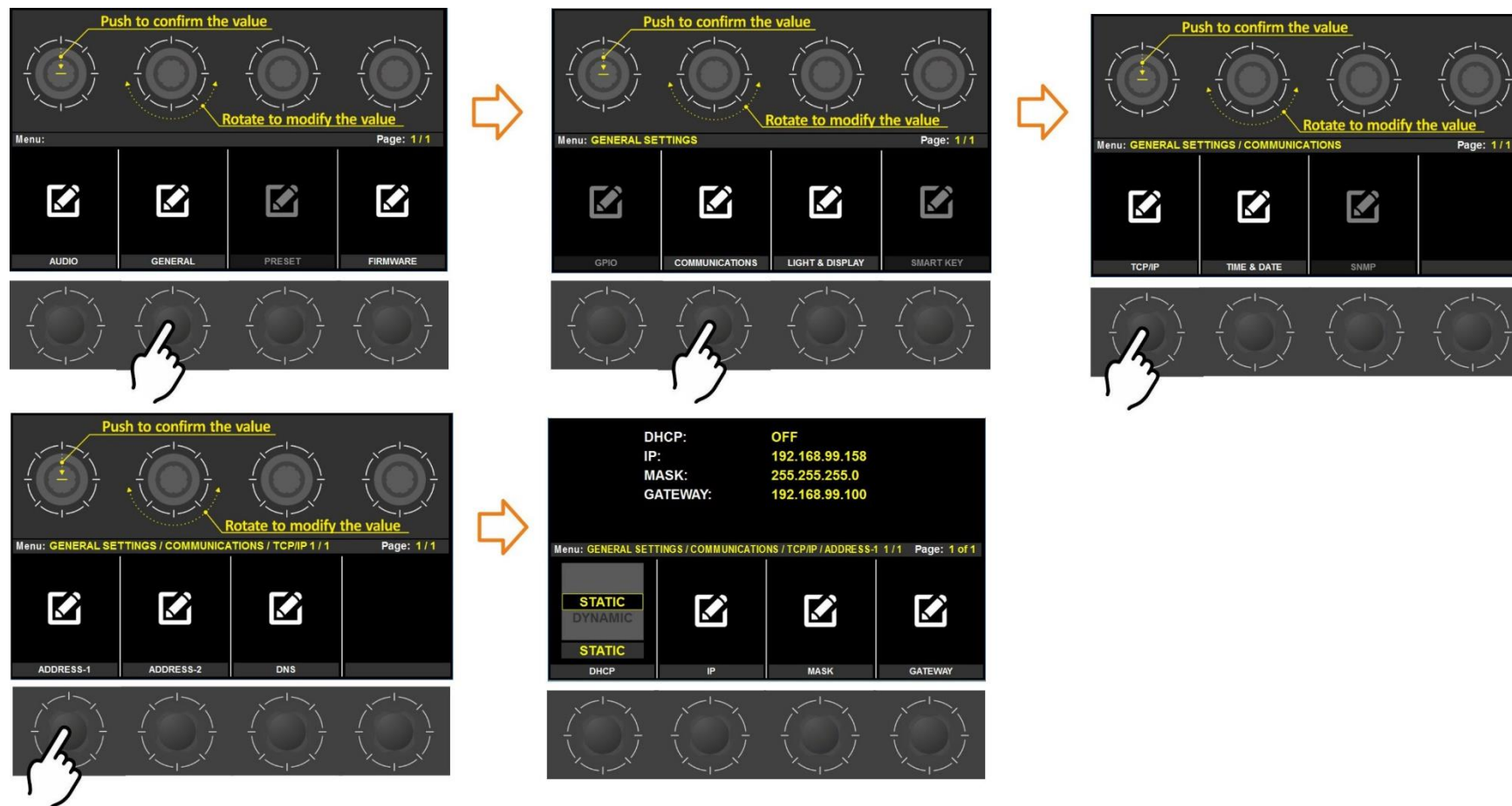


10.6 GENERAL/COMMUNICATIONS

From the General > Communications > TCP/IP it is possible to you to set the TCP-IP Settings and the Time & Date of the mixer.

10.6.1 GENERAL/COMMUNICATIONS/TCP-IP

From the following pictures you can see how to set the parameters for all the menu: IP, MASK and GATEWAY. We will examine only one of these cases: the IP settings. The other cases work in the same way.



By rotating the 4 encoders you can set for a new IP Address.
Every encoder goes from 0 to 255.
By pressing the encoder you can confirm your choice.

DHCP:

IP:

MASK:

GATEWAY:

OFF

192.168.99.135

255.255.255.0

Wait...

Menu: **GENERAL SETTINGS / COMMUNICATIONS / TCP/IP / ADDRESS-1 / IP** Page: **1 / 1**

0

1

2

0

0-255

0

1

2

0

0-255

0

1

2

0

0-255

0

1

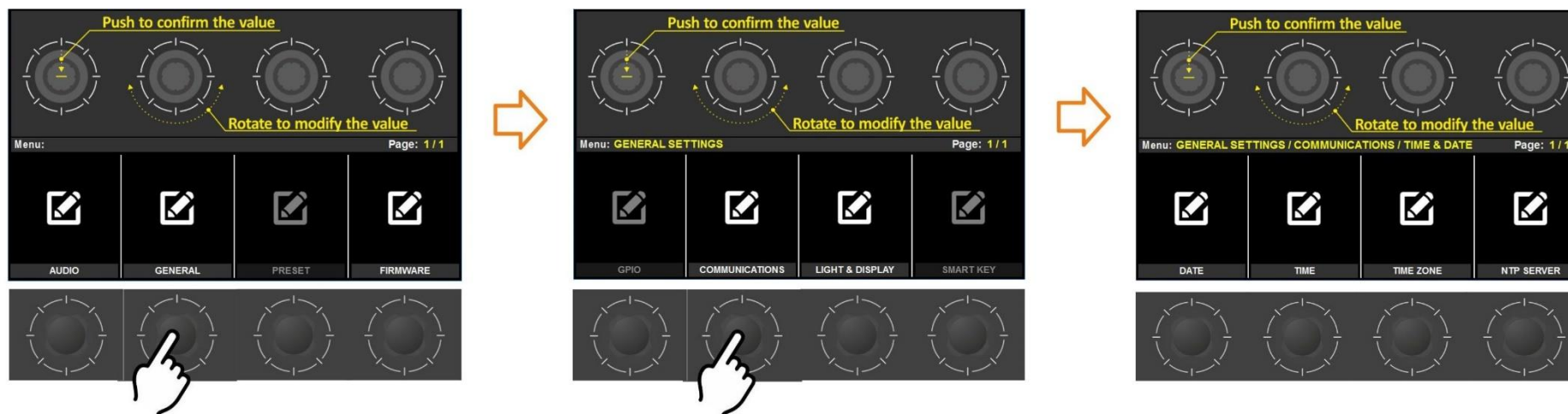
2

0

0-255

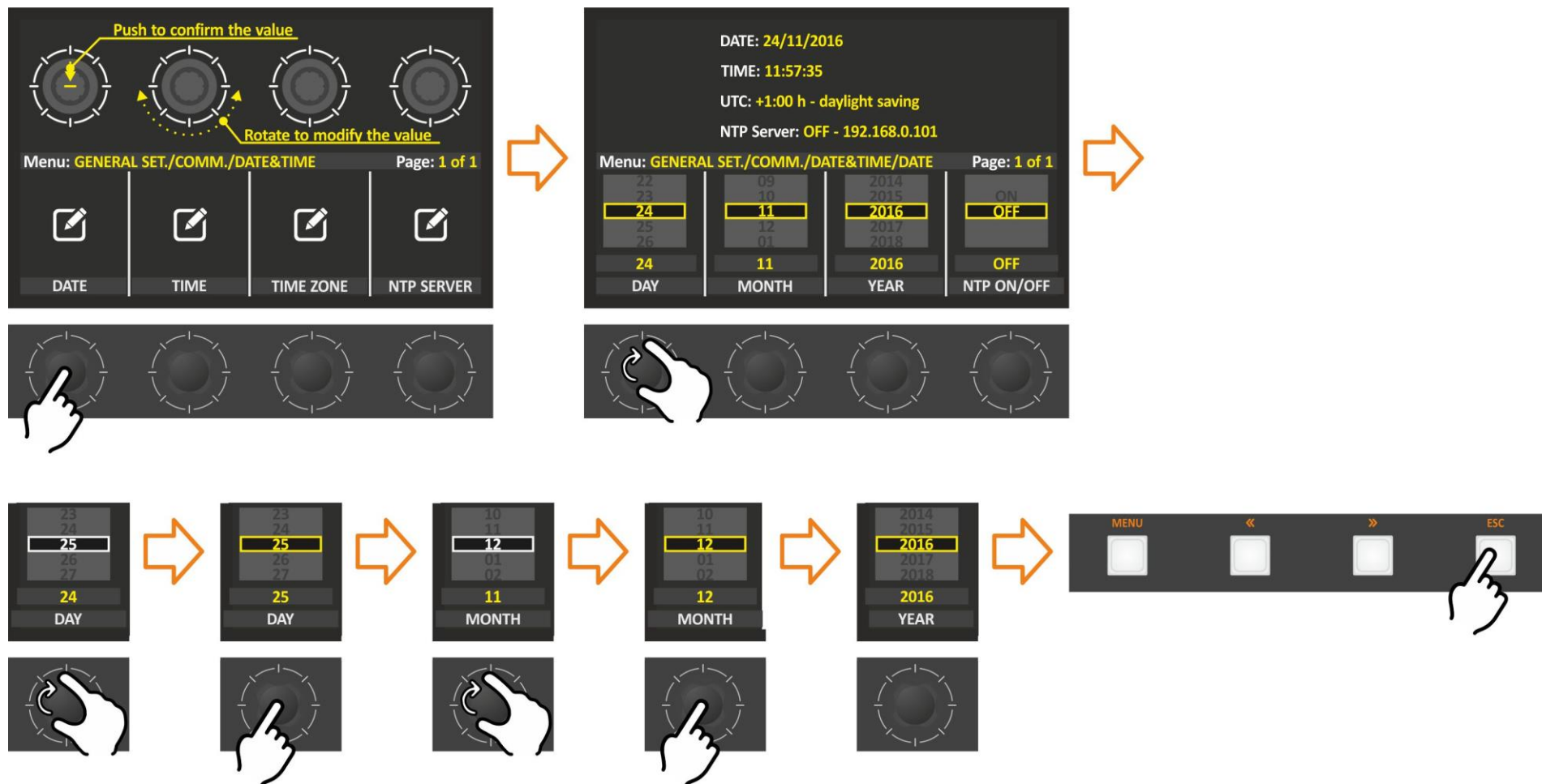
10.6.2 GENERAL SET./COMMUNICATIONS/TIME&DATE

From the General > Communications > TIME&DATE you can configure all parameters related with time and date



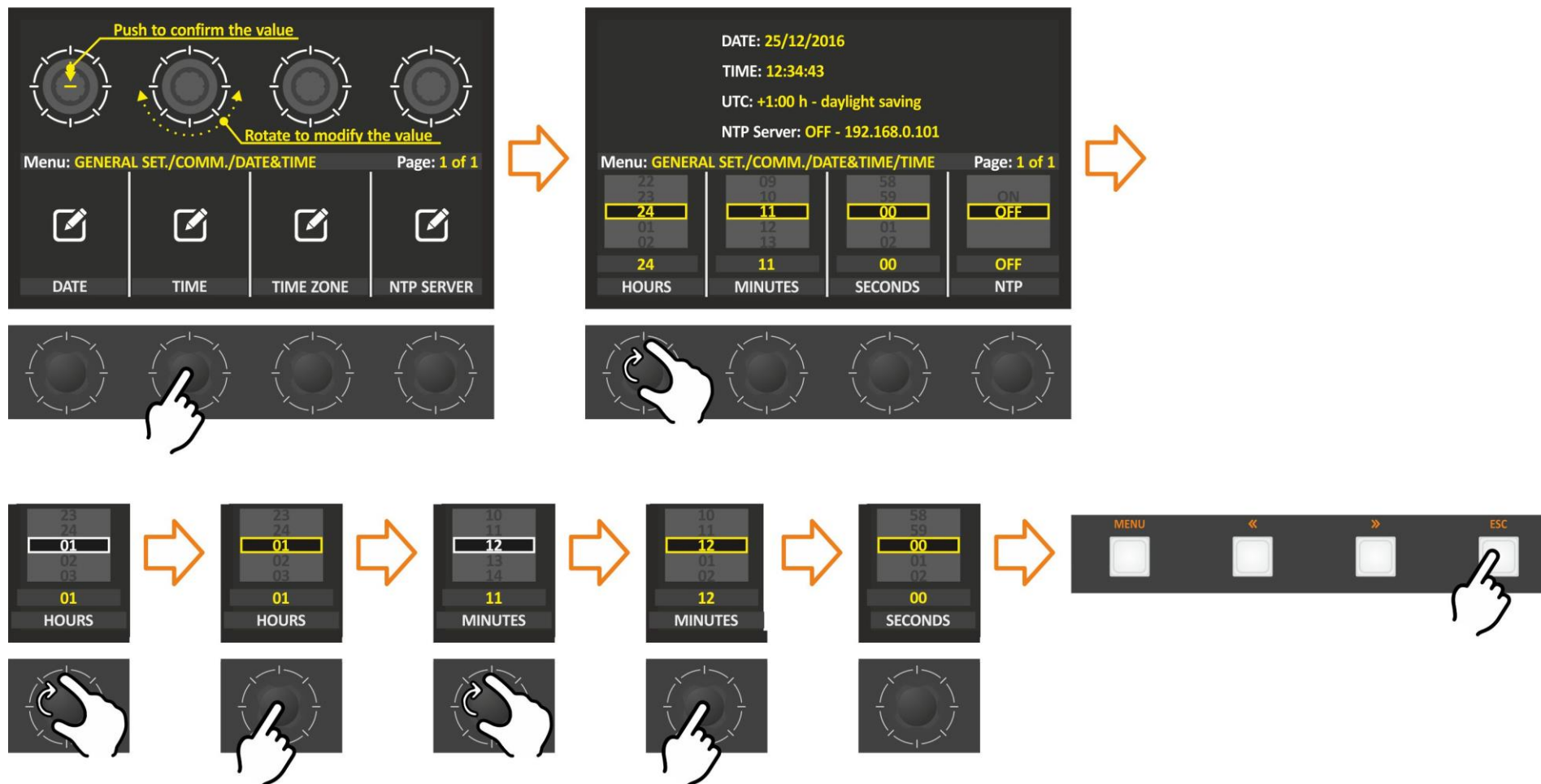
10.6.2.1 GENERAL SET./COMMUNICATIONS/TIME&DATE/DATE

From the following section you can set all the parameters related with the date settings. This data parameters is very important for device LOGS.



10.6.2.2 GENERAL SET./COMMUNICATIONS/TIME&DATE/TIME

This parameter allows to set the TIME. It is a very important parameter to synchronize the clock on the HOME PAGE and it is important also for the device LOGS.



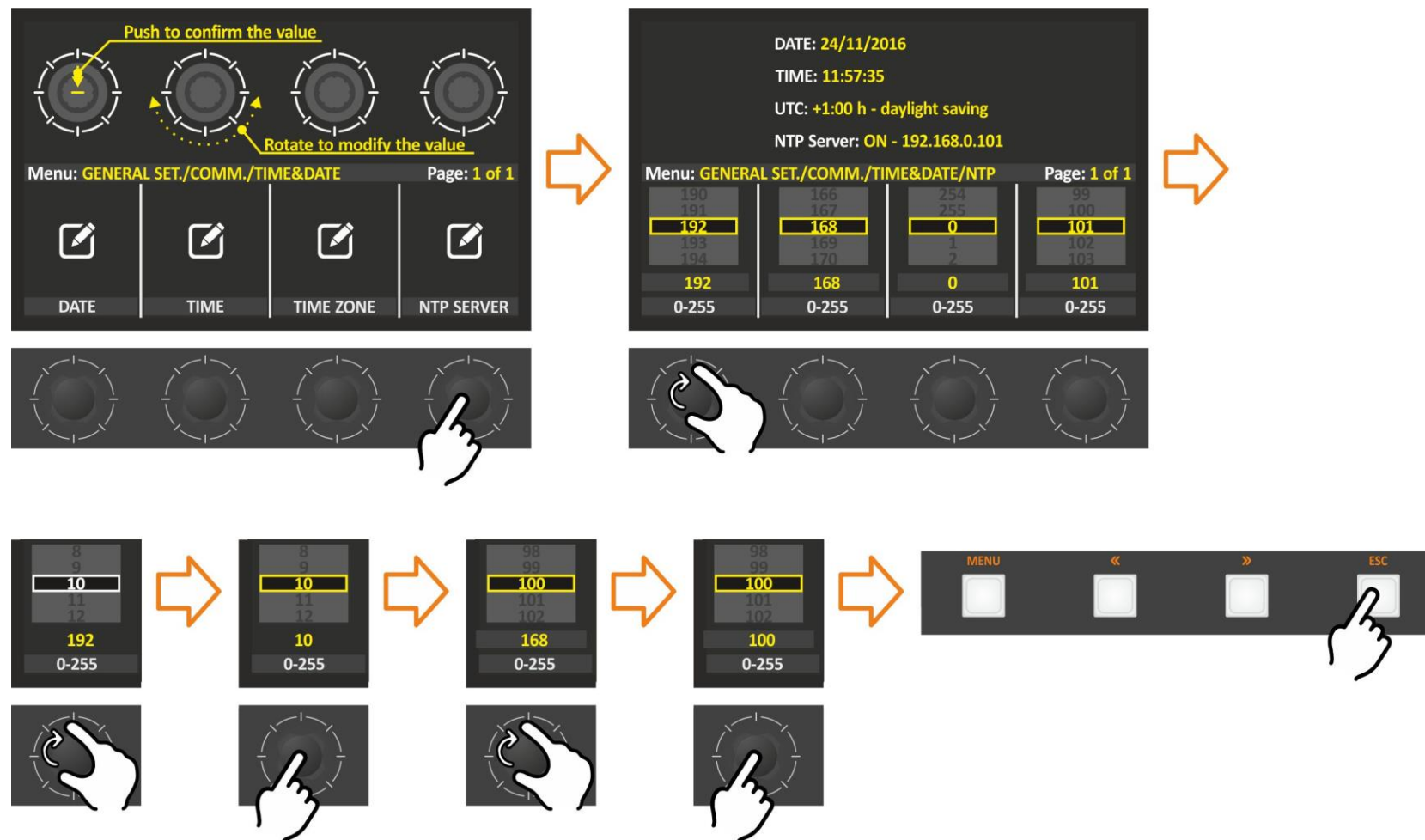
10.6.2.3 GENERAL SET./COMMUNICATIONS/TIME&DATE/TIME ZONE

From this parameter you can set for the TIME ZONE. You can set for the right Offset to the UTC time.



10.6.2.4 GENERAL SET./COMMUNICAT./TIME&DATE/NTP SERVER

From the following parameter is possible to set the NTP Server IP Address to automatically synchronize the mixer clock.

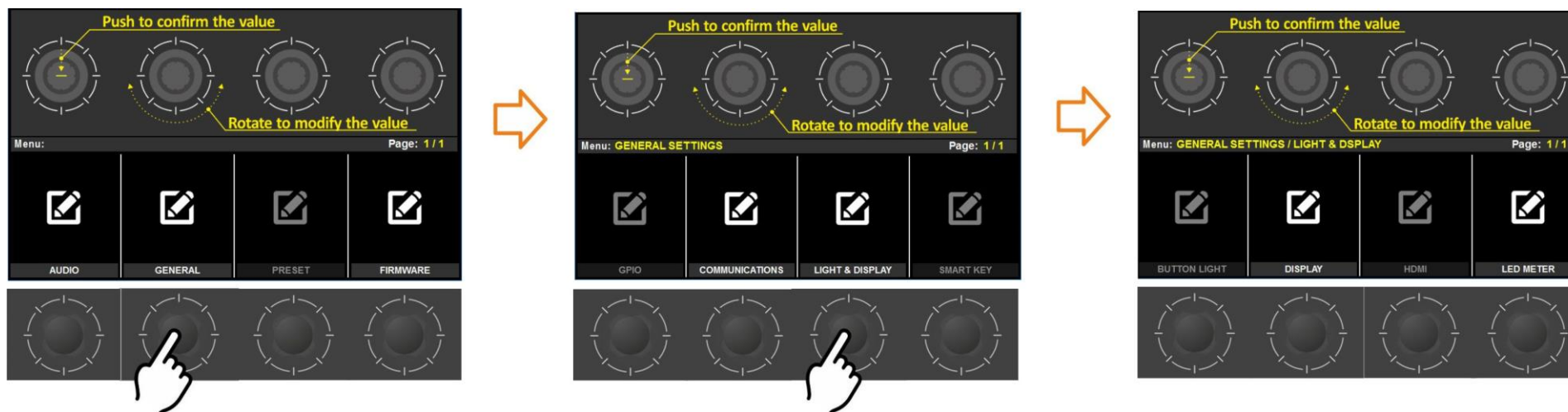


NTP Server in the world:

- europe.pool.ntp.org (217.147.223.78) / · asia.pool.ntp.org (140.130.175.9)
- oceania.pool.ntp.org (203.23.237.200) / · north-america.pool.ntp.org (66.250.45.2)
- south-america.pool.ntp.org (146.164.53.65) / · africa.pool.ntp.org (196.25.1.9)

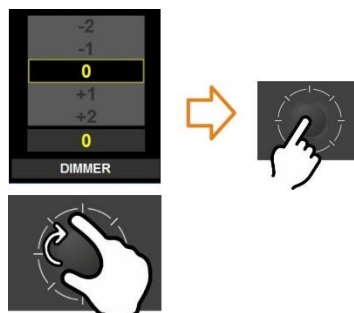
10.7 GENERAL/LIGHT & DISPLAY

From the following menu you can set the display light and the led brightness.



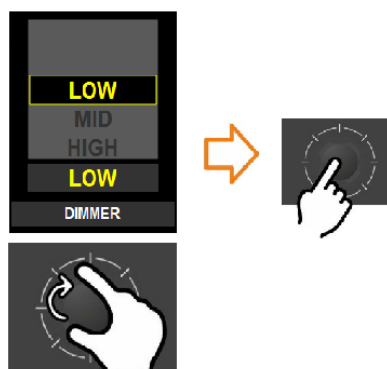
10.7.1 GENERAL/LIGHT & DISPLAY/LED METER

Here you can set the LED METER Dimmer. Every LED METER will follow this setting of the brightness. (From -3, to +3)



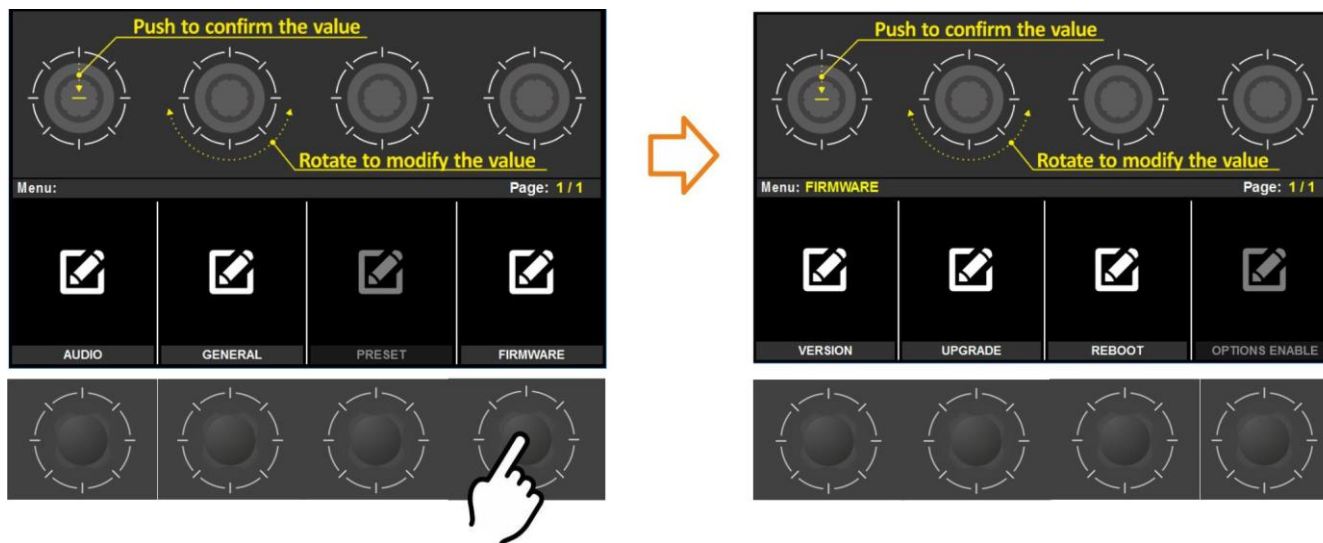
10.7.2 GENERAL/LIGHT & DISPLAY/DISPLAY

Here you can set the DISPLAY brightness (LOW, MID, HIGH)



10.8 FIRMWARE

From the following section you can read for the parameters related with the firmware version.



10.8.1 FIRMWARE/VERSION

OXYGEN 3000 D

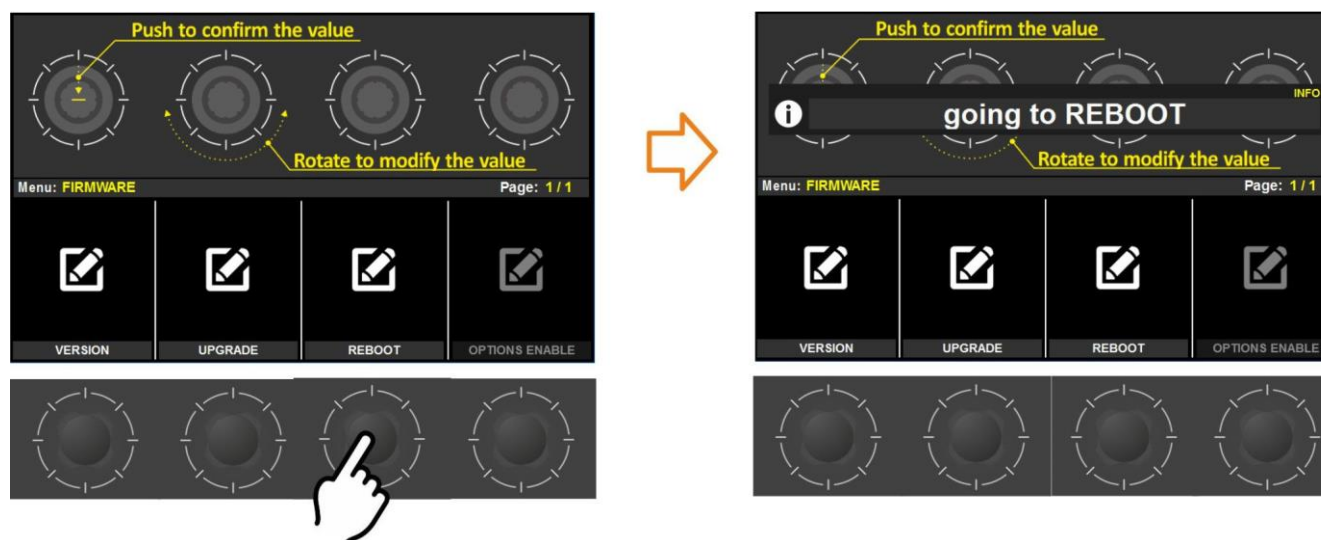


Software and firmware version:

Environment / OS	v1.3.0.72	CH1 MCU	2.0-3018
GUI	1.5.5	CH2 MCU	2.0-3018
Menu Pages	3.7	CH3 MCU	2.0-3018
Engine	0.9-6132	CH4 MCU	2.0-3018
Model	1.4-4679	CH5 MCU	2.0-3018
DSP FW	1:22.0	Master MCU	2.0-3019
DSP MCU	0.0-0	PSU MCU	0.0-0

10.8.2 FIRMWARE/REBOOT

From this section you can reboot the device. The device rebooting is also useful to upgrade the firmware. To upgrade the mixer firmware read the next paragraph.



11 MIXER FIRMWARE UPGRADE

Download the upgrading archive

Unzip it

fill the following files in a USB key:

AxelO3K.md5

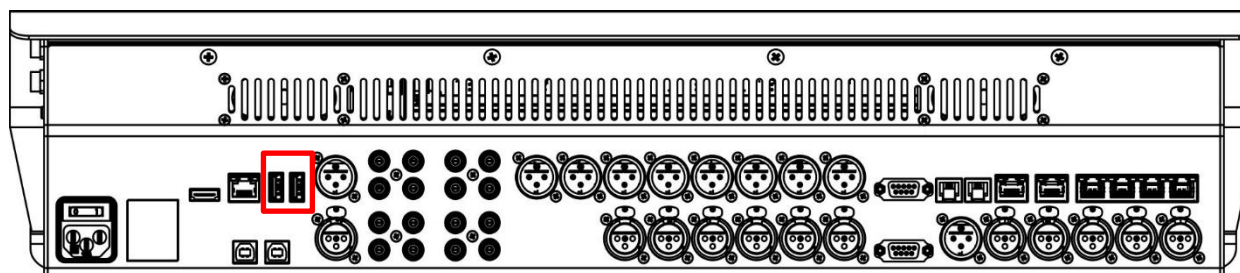
AxelO3K.tgz

Follow the procedure below.

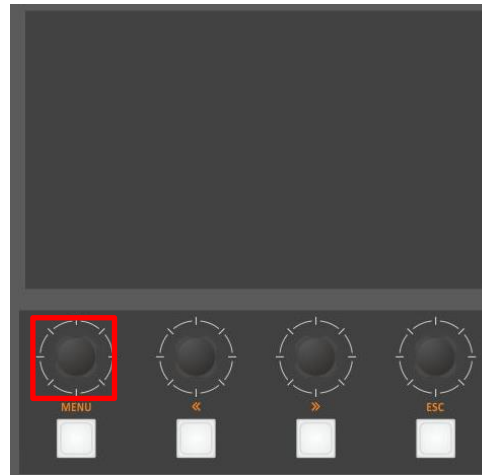
The procedure takes around 10 minutes.

ATTENTION: DO NOT PROCEED WHEN THE MIXER IS ONAIR.

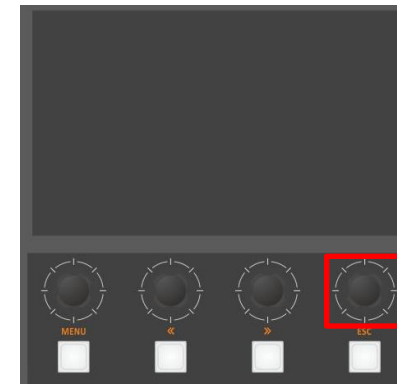
- Plug the USB key inside one of the following USB ports



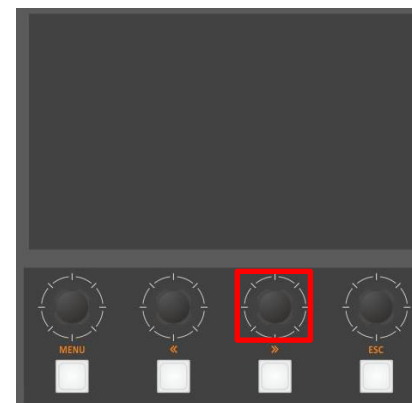
- Turn on the console
- press the Menu button from the Home Page,



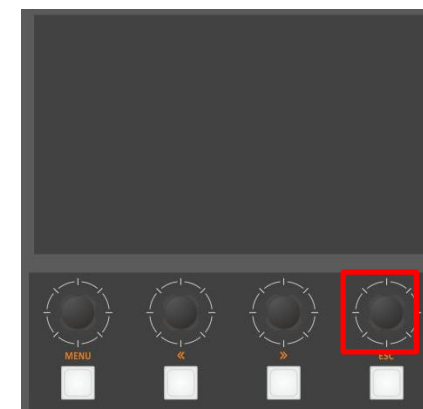
- by pressing the right knob select **Firmware**



-
- The screenshot shows the 'FIRMWARE' menu on the F1000's touchscreen. At the top, there are four circular icons with arrows, indicating a sequence of steps. A green arrow points to the first icon with the text 'Push to confirm the value'. A red arrow points to the second icon with the text 'Rotate to modify the value'. Below the icons, the text 'Menu: FIRMWARE' is on the left and 'Page: 1/3' is on the right. The bottom section of the screen displays four large icons, each with a pencil, representing different functions: 'VERSION', 'UPDATE', 'REBOOT', and 'OPTIONS ENABLE'. Below the touchscreen, there are four physical rotary knobs, each with a green indicator light, corresponding to the functions shown on the screen.



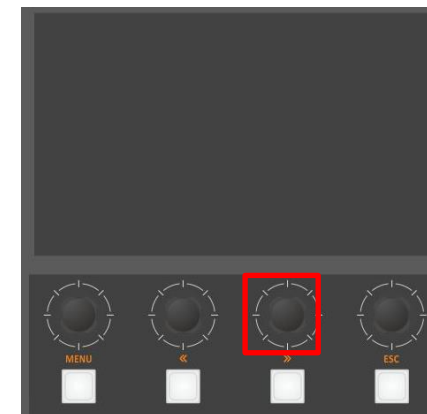
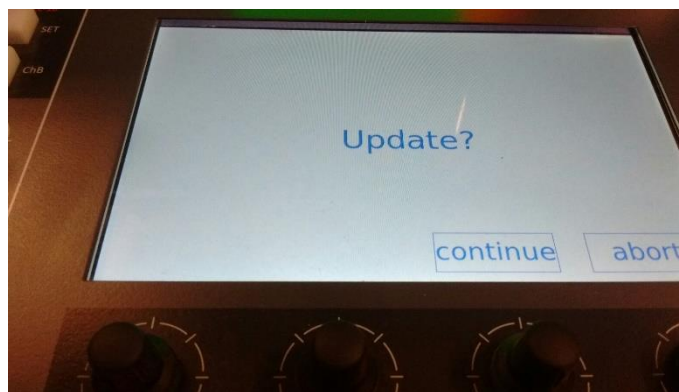
-



- RECOVERY mode starts:



- Wait all the screens (IP address, Insert USB key, Reading USB key..)
- Have a **long pression** on the third knob to start the Updating Process as shown in the following pictures:



- **ATTENTION:** You have to wait until the system will finish the Upgrade. The system requires more or less 5 minutes.
- At the end of the upgrade the System will reboot automatically.
- Oxygen 3000 firmware is upgraded.

12 DECLARATION OF ROHS CONFORMITY

To minimize the environmental impact and take more responsibility to the earth we live, in accordance with European Union Directive 2002/95/EC, known commonly as RoHS (*Restriction of Hazardous Substances*),

We herewith declare,

Axel Technology srl
Via Caduti di Sabbiuno 6/F
40011 Anzola Emilia – Bologna – Italy

that the product listed below complies with the requirements of Directive 2002/95/EC, Article 4, paragraph 1 with reference to hazardous chemical substances:

Lead (Pb)
Hexavalent Chromium
(CrVI)
Mercury (Hg)
PBB (Flame Retardant)
PBDE (Flame Retardant)
Cadmium (Cd)

Product Description: **OXYGEN 3000**



Authorized Company Representative:



Title of Signatory:

Christian Sighinolfi – Technical Manager

Date:

26 June 2013

13 CE CONFORMANCE

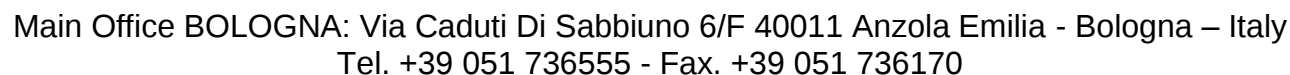
This device complies with the requirements of the EEC Council Directives:

93/68/EEC (CE Marking);

72/23/EEC (Safety – low voltage directive);

2004/108/EC (electromagnetic compatibility).

Conformity is declared to those standards: EN50081-1, EN50082-1.

[illegible]

For General information and Sales dept: SALES@AXELTECHNOLOGY.COM

WWW.AXELTECHNOLOGY.COM