PX-99

Digital Preamplifier / Matrix
8 inputs / 2 outputs

Description

Mixer preamplifier with 8 convertible microwave auxiliary inputs (INPUT1 .... INPUT-8) and 2 outputs level 0 dBu (OUTA, OUT B).

The PX-99 is used to assign each input to output A, output B or both (option C), acting as a matrix of 8 inputs / 2 outputs, with total flexibility.

Each input can be configured as balanced microphone or as an auxiliary unbalanced.

The microphone inputs have phantom supply and configurable password filter.

Each entry has: volume control, independent bass and treble. Assignable priority level to level 1 (minimum level of priority) to 8 (maximum) for the automatic control signal.

VOX function. Each entry has a level sensor with an adjustable threshold (0 to 50), so when the signal exceeds the trigger level, the channel opens. This can also be used as an automatic switch signal, and as a noise gate.

At each entrance, together with the VOX function (and with priority level greater than 1) we can assign the remote function. When the VOX function of this input is activated besides open the audio channel, will be a remote contact closure to ground (open collector) in the remote output terminals, A or B as appropriate entry

In each outputA and B offers master volume independent.

The outputs can adjust the level to 0 dB and -6 dB.

The device, in addition, has a limitation that prevents the saturation level in the output.

Possibility of inserting a coupler module WX-19 in each output. It also has two sets of keys (treble) / (bass) called F1 and F2, which can be assigned to any volume control, whether a particular input or master.

To configure the PX-99 is necessary to go into the USER MODE. During configuration (volume tones, VOX, etc...), the device operates in real time, offering the result of what is done.

Once the installation and the configuration are done, leave the technical mode. The device is in USER MODE.

When you use the display it will shows two bars as vumeter.

In USER MODE can influence the volume settings of the bass and treble for each entry.

In addition, at any time, can act directly on the F1 and F2, which will act on what they have assigned.

The new settings are stored in non-volatile memory. It means that when you remove and replenish the system, they remain in it.

Technical characteristics

- ☑ **8 inputs for configurable micro / aux (XLR).**
- ☑ **2 Outputs 0 dBu (XLR).**
- ☑ **Volume and tone control independent for each input.**
- ☑ **VOX detector with adjustable threshold for each input.**

- ☑ **Priority configuration input.**
- ☑ **Assigning inputs for each output. Configurable.**
- ☑ **2 Function keys.**
- ☑ **Alphanumeric display 2x16 characters.**

REMOTE CONTROL PROGRAM SF-99

The preamplifier PX-99 has a remote control program named SF-99, to run in PC, and it is possible to download it from website www.udeaudio.com . Using this software and connection cable USB type B, you can configure all characteristics of the amplifier: volume, bass and treble, auxiliary input, sensitivity and recuperation time of VOX control, inputs a outputs routing, priority, phantom power, keyword filter, remote control and attenuation of -6dB.

Also allows the record of one security copy of configurations for PX-99 installation, so is possible programming the equipment many times if is necessary.
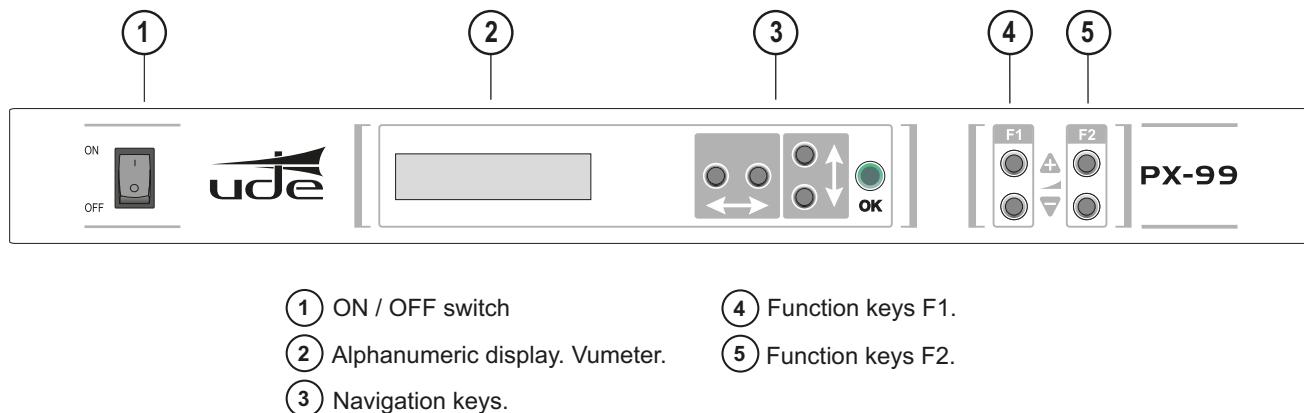
Front panel

① ON / OFF switch	④ Function keys F1.
② Alphanumeric display. Vumeter.	⑤ Function keys F2.
③ Navigation keys.	
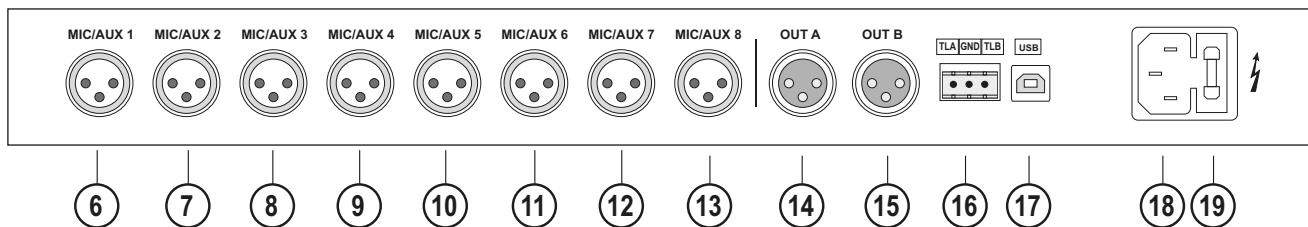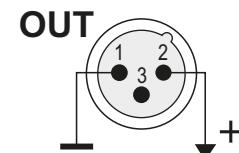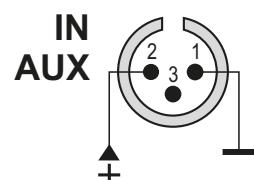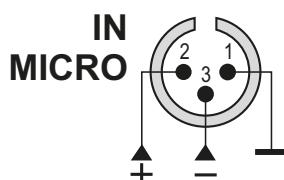
Rear panel

⑥ Micro / Aux Input 1 (XLR)	⑪ Micro / Aux Input 6 (XLR)	⑯ Remote outputs A-B
⑦ Micro / Aux Input 2 (XLR)	⑫ Micro / Aux Input 7 (XLR)	⑰ USB communication port
⑧ Micro / Aux Input 3 (XLR)	⑬ Micro / Aux Input 8 (XLR)	⑱ Electrical output 230 VAC.
⑨ Micro / Aux Input 4 (XLR)	⑭ 0 dBm signal output A. (XLR)	⑲ AC Fuse T0,5A.
⑩ Micro / Aux Input 5 (XLR)	⑮ 0 dBm signal output B. (XLR)	

Technical characteristics

- Input MICRO sensitivity:	1 mV / 600 Ω (symmetric)
- Input AUX sensitivity:	100 mV / 50 k Ω (symmetric)
- Outputs sensitivity:	0 dBu / -6dBu.
- Tone controls:	Bass: 100 Hz. ±10 dB. Treble: 10 KHz. ±10 dB.
- Phantom power supply:	12 VDC.
- Word filter for microphone.	700 Hz.
- Frequency range:	50 Hz. to 18 Khz.
- Distortion:	Less than 0,1%.
- Maximum consumption:	10 VA.
- Power supply:	230 VAC (50/60 Hz).
- Dimensions:	427 x 43 x 314 mm. (1 U).
- Weight:	2,95 Kgs.

Input priority (factory setting)

Inputs 1-2-3-4-5-6	Microphone Phantom supply Word filter off Without remote contro
Inputs 7-8	Auxiliary
All inputs:	Volume adjustment: 5 Bass and High: 0 Vox: +4 Priority: 1 (without priority) Output assignation: A
Outputs:	Volume control: 5 F1 : Vol. Control MASTER A F2: Vol. Control MASTER B Output level 0 dBu
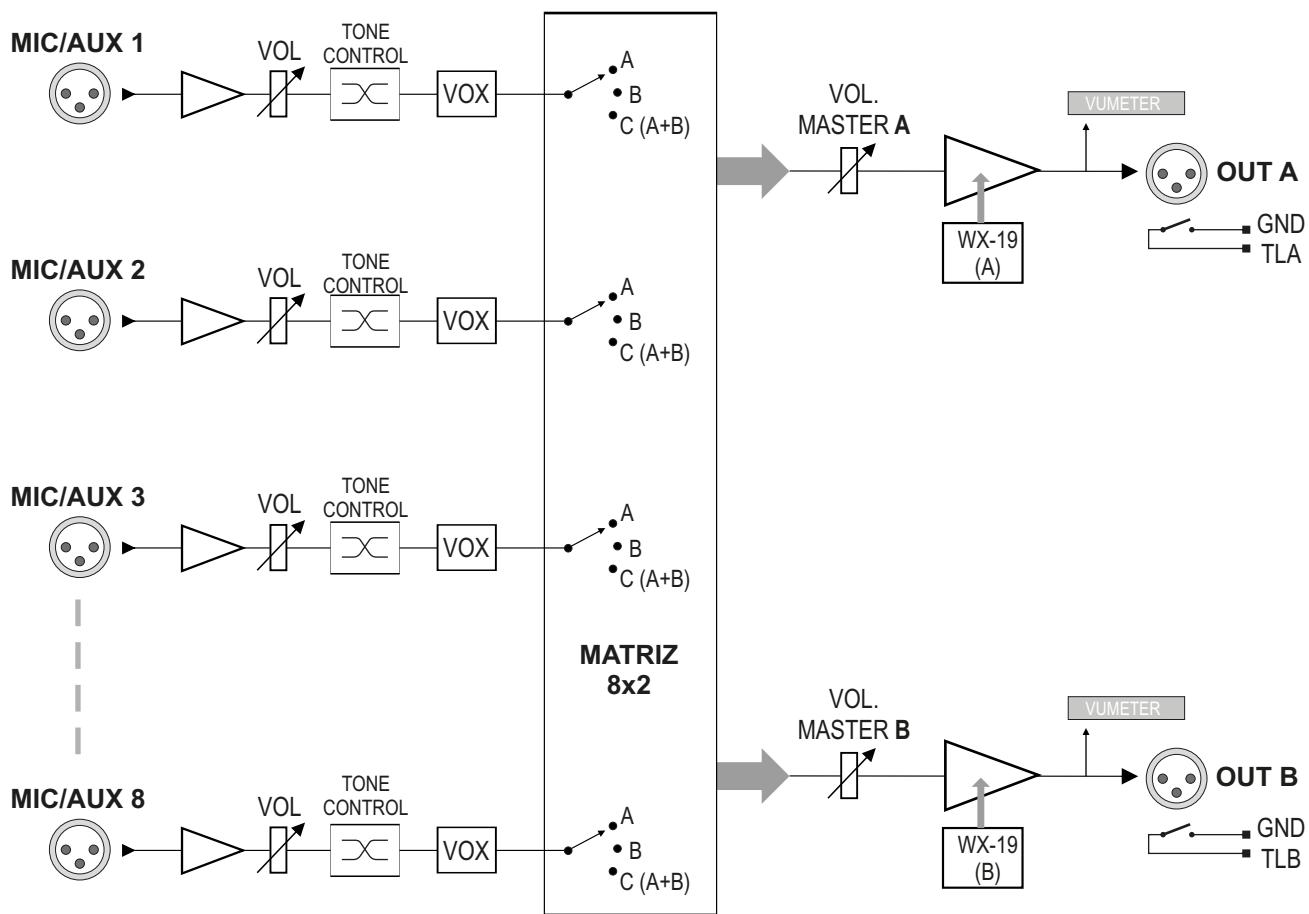
Block diagram
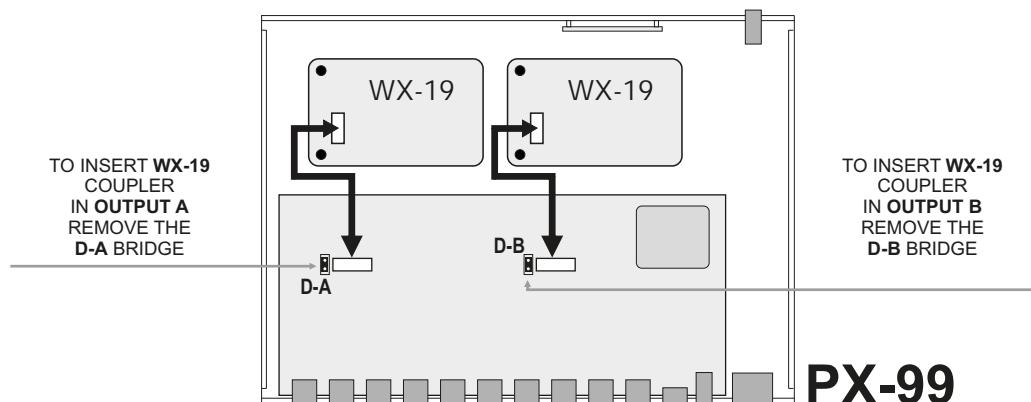
WX-19 module assembly

1 - Remove the cover of the unit

2 - Assemble the WX-19 in its position using the screws provided.

3 - Connect the 6 cables hose as shown

4 - Remove the bridge (D-A) or (D-B). Don't require further adjustments.

5 - Replace the cover.
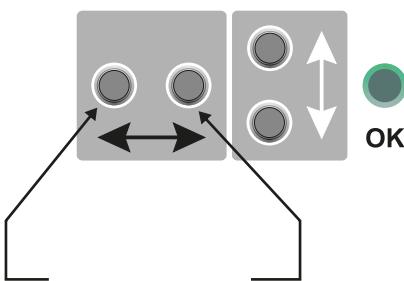
NOTE:
When you remove the module **WX-19** device, it is necessary to restore the bridge (D-A) or (D-B) in place.

TO INSERT **WX-19** COUPLER IN **OUTPUT A** REMOVE THE **D-A** BRIDGE

TO INSERT **WX-19** COUPLER IN **OUTPUT B** REMOVE THE **D-B** BRIDGE
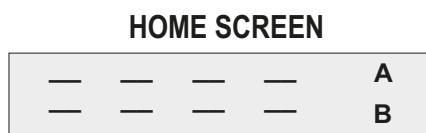
PX-99
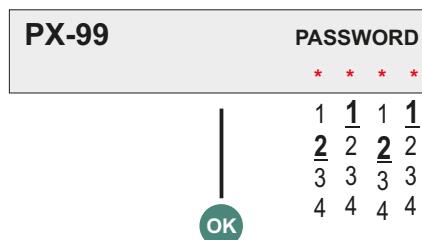
Acces to technical mode

TO GO TO TECHNICAL MENU,
KEEP PRESSING
FOR 5 SECONDS
BOTH BUTTONS

OK

HOME SCREEN

| — | — | — | — | A |
| — | — | — | — | B |
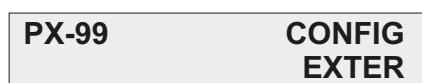
ENTER A 4 FIGURES PASSWORD (1 to 4)
BY NAVIGATION AND VALIDATE

OK

PX-99   **PASSWORD**

*   *   *   *

1	**1**	1	**1**
2	2	**2**	2
3	3	**3**	3
4	4	4	4

OK

PX-99   **CONFIG IN**   INPUTS CONFIGURATION
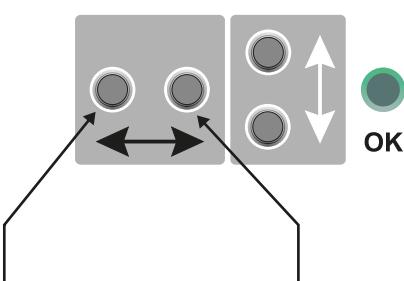
PX-99   **CONFIG OUT**   OUTPUTS CONFIGURATION
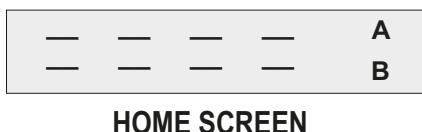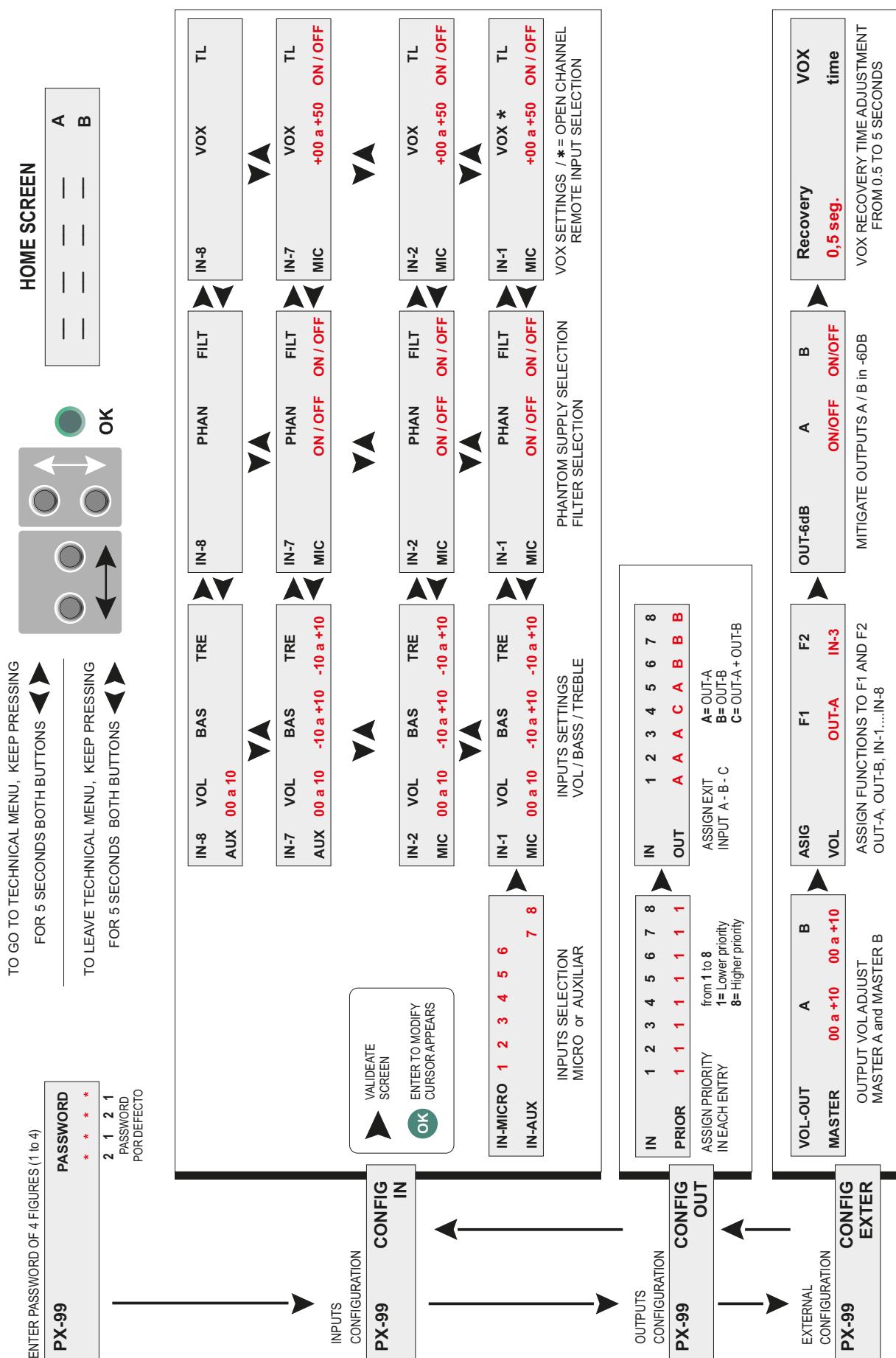
PX-99   **CONFIG EXTER**   EXTERNAL CONFIGURATION

TO LEAVE TECHNICAL MENU,
KEEP PRESSING FOR 5 SECONDS
BOTH BUTTONS.

OK

| — | — | — | — | A |
| — | — | — | — | B |

HOME SCREEN

PX-99
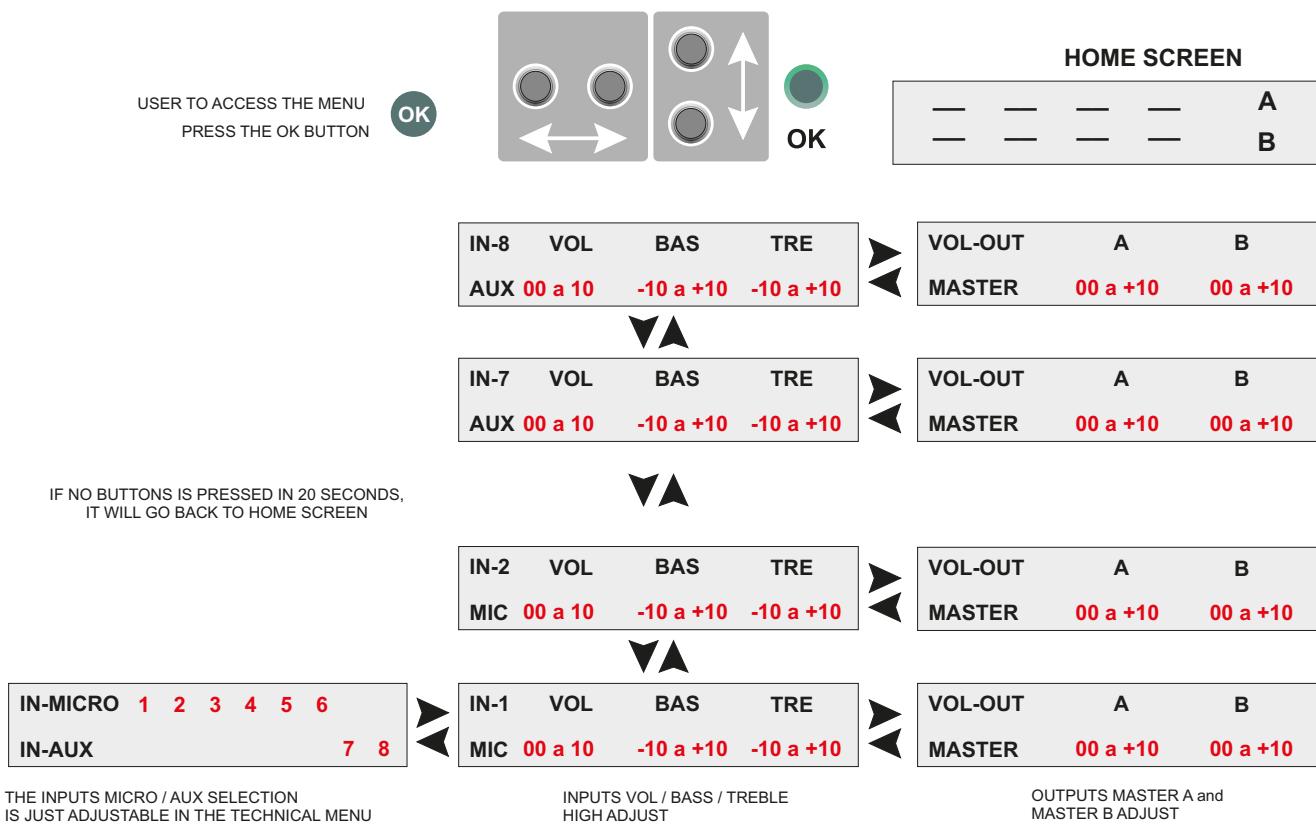
Technical mode operation

HOME SCREEN

— — — — A
— — — — B

OK

TO GO TO TECHNICAL MENU, KEEP PRESSING
FOR 5 SECONDS BOTH BUTTONS

TO LEAVE TECHNICAL MENU, KEEP PRESSING
FOR 5 SECONDS BOTH BUTTONS

ENTER PASSWORD OF 4 FIGURES (1 to 4)

PX-99	PASSWORD
	* * * *

2 1 2 1
PASSWORD POR DEFECTO

INPUTS CONFIGURATION

PX-99	CONFIG IN

VALIDEATE SCREEN
OK ENTER TO MODIFY CURSOR APPEARS

| IN-MICRO | 1 2 3 4 5 6 | 7 8 |
| IN-AUX | | |

INPUTS SELECTION
MICRO or AUXILIAR

IN-8	VOL	BAS	TRE
AUX	00 a 10		

IN-8	PHAN	FILT

IN-8	VOX	TL

IN-7	VOL	BAS	TRE
AUX	00 a 10	-10 a +10	-10 a +10

IN-7	PHAN	FILT
MIC	ON / OFF	ON / OFF

IN-7	VOX	TL
MIC	+00 a +50	ON / OFF

IN-2	VOL	BAS	TRE
MIC	00 a 10	-10 a +10	-10 a +10

IN-2	PHAN	FILT
MIC	ON / OFF	ON / OFF

IN-2	VOX	TL
MIC	+00 a +50	ON / OFF

IN-1	VOL	BAS	TRE
MIC	00 a 10	-10 a +10	-10 a +10

IN-1	PHAN	FILT
MIC	ON / OFF	ON / OFF

IN-1	VOX *	TL
MIC	+00 a +50	ON / OFF

INPUTS SETTINGS
VOL / BASS / TREBLE

PHANTOM SUPPLY SELECTION
FILTER SELECTION

VOX SETTINGS / * = OPEN CHANNEL
REMOTE INPUT SELECTION

OUTPUTS CONFIGURATION

PX-99	CONFIG OUT

| IN | 1 2 3 4 5 6 7 8 |
| PRIOR | 1 1 1 1 1 1 1 1 |

ASSIGN PRIORITY IN EACH ENTRY
from 1 to 8
1= Lower priority
8= Higher priority

| IN | 1 2 3 4 5 6 7 8 |
| OUT | A A A C A B B B |

ASSIGN EXIT INPUT A - B - C
A= OUT-A
B= OUT-B
C= OUT-A + OUT-B

EXTERNAL CONFIGURATION

PX-99	CONFIG EXTER

VOL-OUT	A	B
MASTER	00 a +10	00 a +10

OUTPUT VOL ADJUST
MASTER A and MASTER B

ASIG	F1	F2
VOL	OUT-A	IN-3

ASSIGN FUNCTIONS TO F1 AND F2
OUT-A, OUT-B, IN-1.....IN-8

OUT-6dB	A	B
	ON/OFF	ON/OFF

MITIGATE OUTPUTS A / B in -6DB

Recovery	VOX
0,5 seg.	time

VOX RECOVERY TIME ADJUSTMENT
FROM 0.5 TO 5 SECONDS

User mode operation

USER TO ACCESS THE MENU
PRESS THE OK BUTTON **OK**

OK

HOME SCREEN

				A
—	—	—	—	
—	—	—	—	B

IN-8	VOL	BAS	TRE
AUX	00 a 10	-10 a +10	-10 a +10

VOL-OUT		A	B
MASTER		00 a +10	00 a +10

IN-7	VOL	BAS	TRE
AUX	00 a 10	-10 a +10	-10 a +10

VOL-OUT		A	B
MASTER		00 a +10	00 a +10

IF NO BUTTONS IS PRESSED IN 20 SECONDS,
IT WILL GO BACK TO HOME SCREEN

IN-2	VOL	BAS	TRE
MIC	00 a 10	-10 a +10	-10 a +10

VOL-OUT		A	B
MASTER		00 a +10	00 a +10

IN-MICRO	1	2	3	4	5	6
IN-AUX					7	8

IN-1	VOL	BAS	TRE
MIC	00 a 10	-10 a +10	-10 a +10

VOL-OUT		A	B
MASTER		00 a +10	00 a +10

THE INPUTS MICRO / AUX SELECTION
IS JUST ADJUSTABLE IN THE TECHNICAL MENU

INPUTS VOL / BASS / TREBLE
HIGH ADJUST

OUTPUTS MASTER A and
MASTER B ADJUST

Modify / Validate parameters

IN-1	VOL	BAS	TRE
MIC	00 a 10	-10 a +10	-10 a +10
	Level 1	Level 2	Level 3

CLICK **OK** TO MODIFY

VALIDATE PARAMETERS
AND GO TO THE NEXT SCREEN ▶

THE FIRST CONFIGURABLE
PARAMETER FLASH (level 1)

WITH THE BUTTON WE RAISING THE LEVEL
WITH THE BUTTON WE LOWER THE LEVEL

CLICKING ▶
WE TURN TO THE NEXT
CONFIGURABLE PARAMETER (level 2)

WITH THE BUTTON WE RAISING THE LEVEL
WITH THE BUTTON WE LOWER THE LEVEL

CLICKING ▶
WE TURN TO THE NEXT
CONFIGURABLE PARAMETER (level 3)

WITH THE BUTTON WE RAISING THE LEVEL
WITH THE BUTTON WE LOWER THE LEVEL

CLICK **OK**
TO VALIDATE ALL PARAMETERS
INDICATED ON THE DISPLAY

◀ **PUSH TO RETURN
TO HOME SCREEN**