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User's manual

X82FD

XCELLENCE

July 2025

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Safety Instructions

1. All safety instructions must be read before using this device.
2. The exclamation mark in the triangle indicates internal components which if replaced can affect safety.
3. The lightning symbol within the triangle indicates the presence of dangerous uninsulated voltages.
4. This device must not be exposed to rain or humidity. It must not be used for example near swimming pools, fountains or any other place where it might be affected by liquids.
5. Only clean the device with a dry cloth.
6. Do not situate the equipment where its ventilation system might be interfered with.
7. Do not install the device near heat sources such as radiators, heaters or other heat-emitting elements.
8. The equipment must be repaired by qualified technical service personnel when:
 - A. The mains supply cable is damaged, or
 - B. Any object or liquid has damaged the device; or
 - C. The equipment does not function normally or correctly; or
 - D. The equipment has been exposed to the rain; or
 - E. The chassis is damaged
9. Disconnect the device in the case of electric storms or during long periods of disuse.
10. Never hang the equipment by its handle.
11. Only use manufacturer recommended accessories.

1. INTRODUCTION

1.1. General product information

Amate Audio thanks you for the trust placed in our Xcellence loudspeaker systems. The Xcellence series combines the convenience of a self-powered system and the flexibility of the DSP (digital system processing) for cabinet control. More than 50 years' experience in amplifier and acoustic cabinet design using the highest technology and components come together to give you a product ideal for a multitude of applications, especially those which require high levels of sound pressure. Stadiums, theatres or big events will become the perfect places for their use. We suggest you read the following information with attention, assured that it will be of maximum use in helping you to achieve the best results and optimum performance.

1.2. Features and presentation

X82FD

- Self-powered two-way acoustic system
- XLR electronically balanced input & XLR parallel link
- AC PowerCon input & link
- EtherCon RJ45 input & link
- 1 Gbps Ethernet connectivity with Dante™ audio networking
- 2500W class D amplifier for mid-bass range
- 500W class D amplifier for high range
- 24-bit AD/DA converters with 112 dB dynamic input, 48 kHz sampling rate
- DSP Controls (presets, parametric EQs, delay, mute, volume and limiter)
- Amplifier self-diagnostics: input level, temperature, limiter active
- Overvoltage protection (>250V-400V)
- Ethernet connectivity with Dante™ audio networking
- 2 x 8" neodymium woofers with 2" dual long excursion voice coil
- 3" titanium diaphragm neodymium driver coupled to a horn
- 80 x 60° dispersion horn

2. X82FD FEATURES

The X82FD cabinet is ideal for a multitude of applications. It includes 2500 W bi-amplification for the low range woofers, 500 W for the high range compression driver and digital signal control by DSP. The manufacturer presets make it easy, flexible and user-friendly. The result is a clean, high quality sound whether for nearfield listening or at full power in larger sites.

2.1. Technical description

The X82FD cabinet comes with DSP control and full range sound delivery thanks to its direct radiation transducers and acoustic bass reflex cabinet. As a full range system, its response is 68Hz-19kHz (-10dB).

It has 3000W continuous amplification (2500W + 500W), thermal protection, output short circuit protection, independent peak and RMS power limiters for each channel, and protection against overvoltage. The DSP includes several presets which can be selected either accessing the cabinet’s rear control panel or via the computer with Ethernet connection.

The X82FD cabinet is connected using the XLR balanced connector. Mains supply is through PowerCon. It is built in birch plywood, which has a high resistance to vibrations and humidity with black Polyurea paint coating. The front face is protected by a 1.5 mm thick steel grille with acoustically transparent grey cloth. It includes two in-built back handles for an easy and comfortable transport.

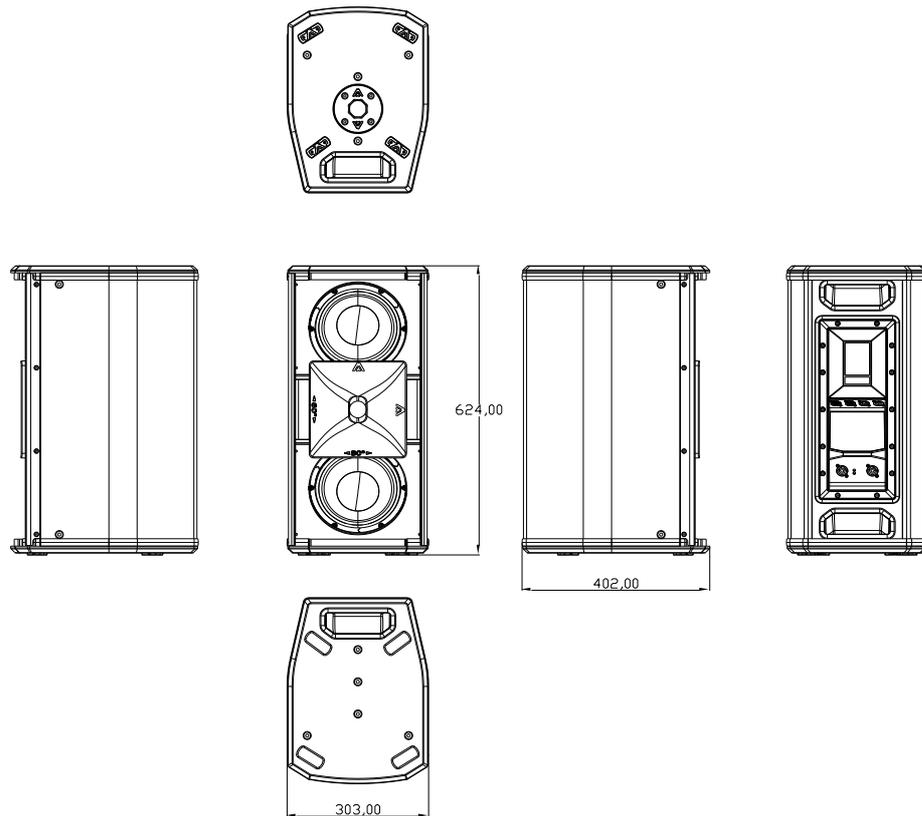


Fig. 1. X82FD external dimensions

3. PRESETS

The X82FD includes several manufacturer presets for different types of application. The DSP system can also store up to 24 other presets, depending on user requirements.

PRESET 1: FR Flat

Single enclosure without subwoofer, full range, flat response

[FR Flat]

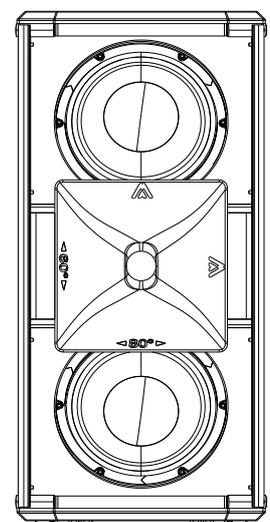
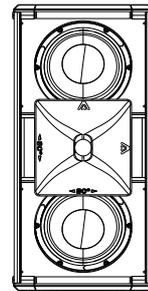


Fig. 2. Preset [FR Flat] configuration

PRESET 2: FR Longthrow

Several enclosures without subwoofer, full range. If you need to use the upper cabinet as Longthrow cabinet please choose [FR Longthrow] preset. For the lower cabinet you may use [FR Flat] preset.

[FR Longthrow]



[FR Flat]

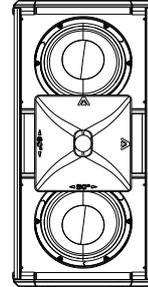


Fig. 3. Preset [FR Longthrow] configuration

PRESET 3: HPF90 Flat

Single enclosure with subwoofer, with HPF90 Hz, flat response. Use [X-ALIGNED] on XW118 subwoofer or XW218 subwoofer.

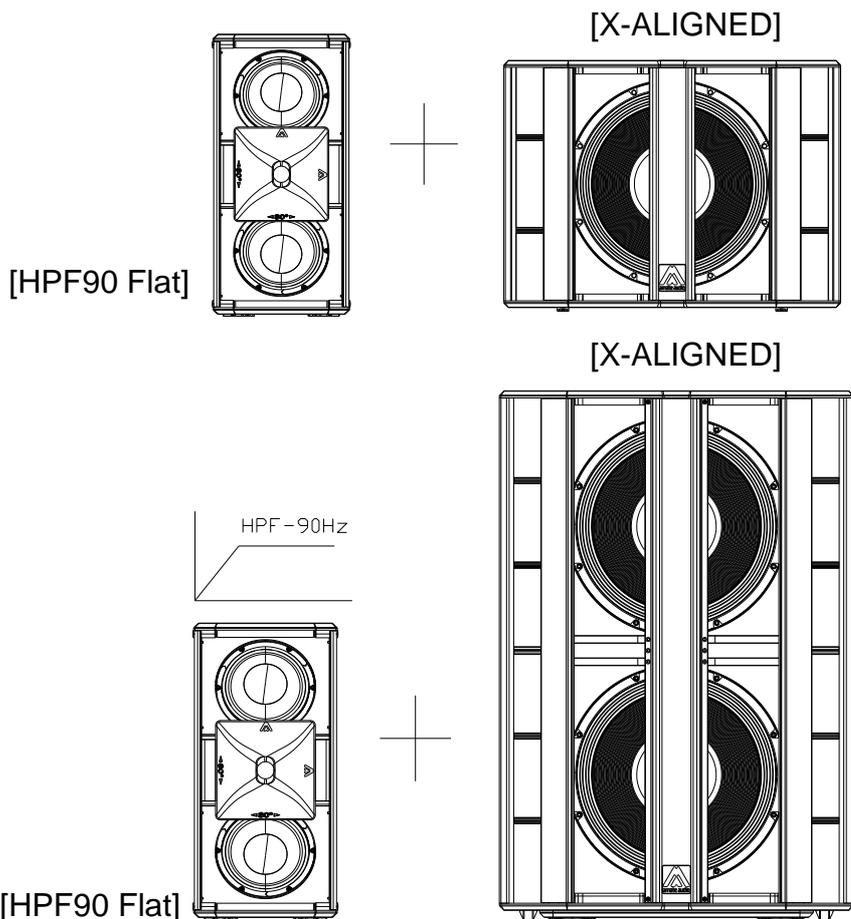


Fig. 4. Preset [HPF90 Flat] configuration

PRESET 4: HPF90 Longthrow

Several enclosures with subwoofer, with HPF90 Hz. If you need to use the upper cabinet as Longthrow cabinet please choose [HPF90 Longthrow] preset. For the lower cabinet you may use [HPF90 Flat] preset.

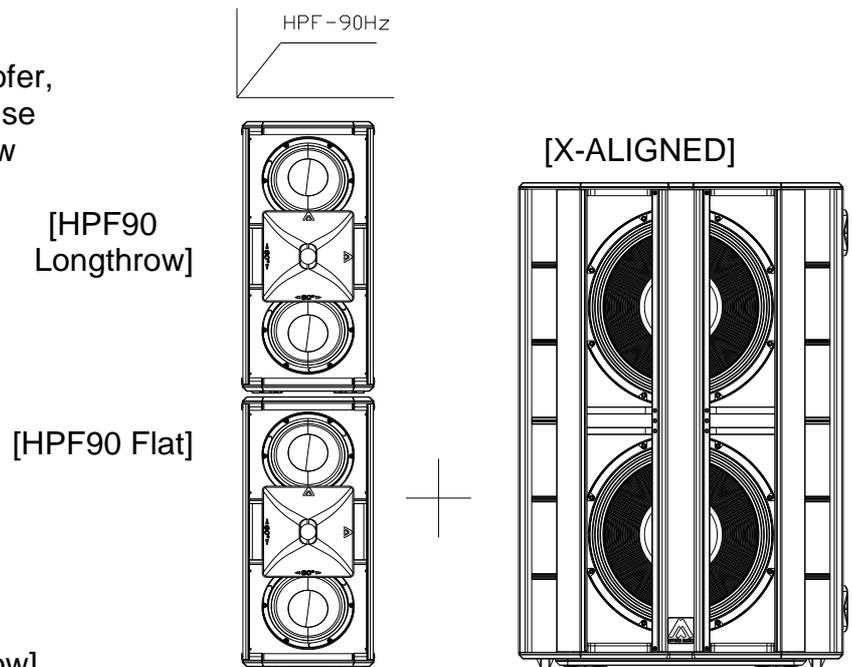


Fig. 5. Preset [HPF90 Longthrow] configuration

**SYSTEM ALIGNMENT**

The system is pre-aligned from the factory. Do not forget to add the geometric delay depending on the configuration used.

4. CONTROL AND CONNECTION PANEL

The X82FD control panel contains the following elements:

A) TOUCHSCREEN: Displays information about the System status: current preset, network IP, amplifier temperature and signal input level. Allows the user to configure the system without the need of an external computer: IP address setting, Preset selection, Delay, Gain, Limiter, ECO mode on/off, Signal LEDs on/off, etc. For more information about the available functionality, read the Annex I of this manual.

NOTE: The default PIN to access the setup menu is “1234”

B) AC INPUT/OVERVOLTAGE PROTECTION: These LEDs show the status of the AC mains supply.

- **POWER ON:** (Blue) when lit, the equipment is ON and the AC input level is within the permitted range (up to 250 VAC).
- **>250V:** (Red) when activated, the AC voltage is permanently out of the permitted range of the equipment, so it will remain under protection until this condition is solved. Revise your connections and mains power installation and consider that other equipment connected to this line may have been damaged.

C) NETWORK: Two 8-pin RJ45 / EtherCon® compatible connectors for connection to Ethernet network up to 1Gbps. This connection can be used for remote control via software (DSPStudio) and for streaming audio via Dante™. Please refer to Amate Audio DSPStudio Quick Installation Guide for more information on remote connection.

The two connectors are interconnected by means of an internal switch, so they can be used interchangeably and allow the chain connection of several boxes.

IMPORTANT: If Dante is used it is not recommended to chain more than eight units, due to latency reasons.



Fig. 6. X82FD control and connection panel

D) BALANCED INPUT/LINK:

XLR-3 Female balanced signal connector for signal input.

XLR-3 Male connector for parallel connection of various cabinets with the same input signal.

Nominal Input sensitivity: +8dBu (2 Vrms)

Maximum Input Voltage without input compression: +14dBu (4Vrms)

Maximum Input Voltage without clipping: +20dBu (8Vrms)

IMPORTANT: Please always use balanced microphone cable with the following pin assignment: 1= Shield (Ground) 2= Live (+) 3= Return (-)

E) AC MAINS INPUT/LINK: Mains supply connection via PowerCon.

- Blue connector for AC in.
- Grey connector to feed other units in parallel. Linking up to four units is possible, provided that a quality cable of a minimum section of 3x2.5mm² is used. Connecting more than four units in parallel may lead to a voltage drop in the cable that will reduce the equipment performance.



Always use mains power cable supplied by manufacturer.
Never connect the Xcellence cabinets to an unearthed mains supply or by using an unearthed mains cable.

5. CONNECTING**5.1. Parallel connection****Analog Audio Signal**

Connect the signal (mixing desk output) to INPUT on the first unit. Use the LINK output to transfer the INPUT signal to the second unit and thus sequentially for further units. All of the units in this chain must be switched on.

Mains Power

For the mains connection in parallel use the cable with grey Neutrik PowerCon NAC3FCB at one end and the blue Neutrik PowerCon NAC3FCA at the other end.

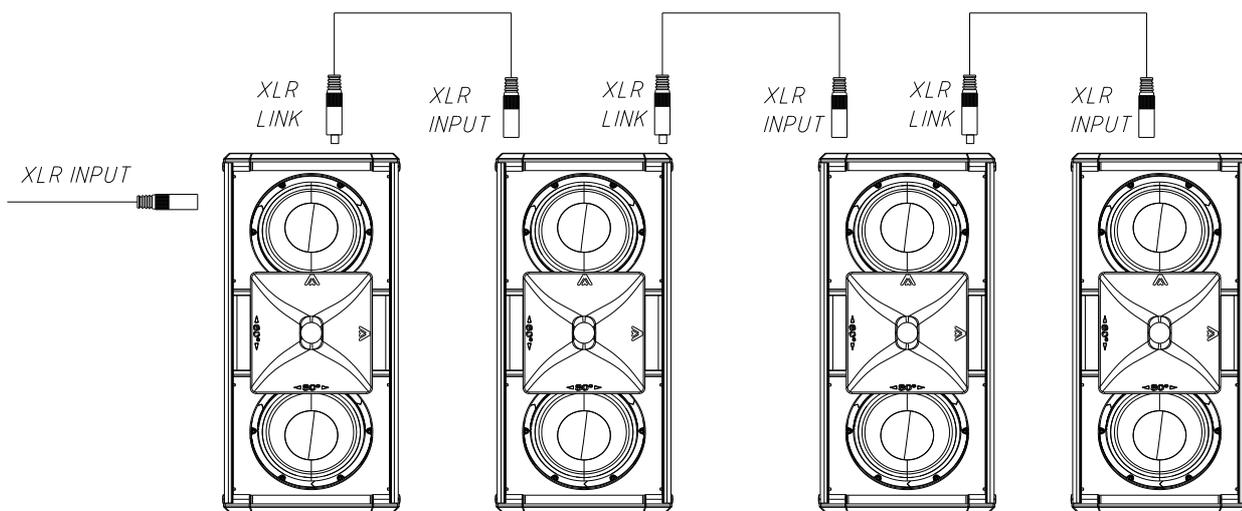


Fig. 7. Parallel connection for the X82FD (signal)

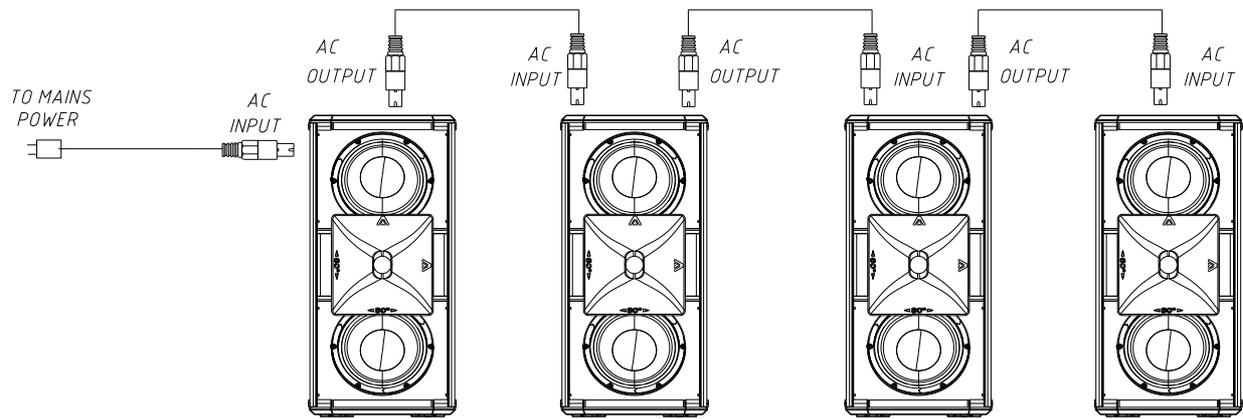


Fig. 8. Parallel connection for the X82FD (mains). You can link up to four units



Do not connect more than four X82FD units using the AC Mains link connector. Do not connect Xcellence series units in parallel using PowerCon-PowerCon without earth.

Network

The two available Ethernet ports via the EtherCon RJ-45 connector are internally switched and both can be used as input and link to other cabinets. All of the units in this chain must be switched on.

The number of units allowed in parallel or daisy-chain depend on whether Dante audio networking is being used.

When using Dante, a maximum number of 8 cabinets is recommended due to latency reasons. When not, there is no specific limit for daisy-chaining (control and monitoring using DSPStudio®).

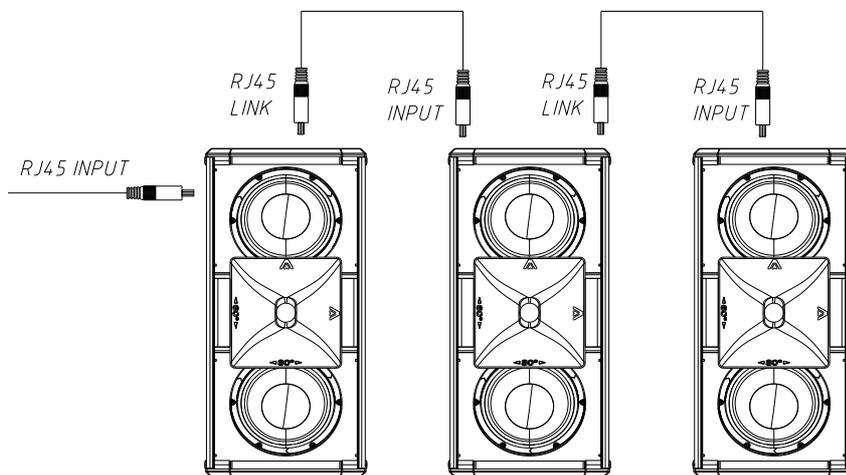


Fig.9. Parallel connection for the X82FD (network). You can link up to eight units when using Dante networking, or more when not using it.

5.2. Parallel connection with subwoofer

You can connect the X82FD in parallel with the XW118 and XW218 subwoofers.

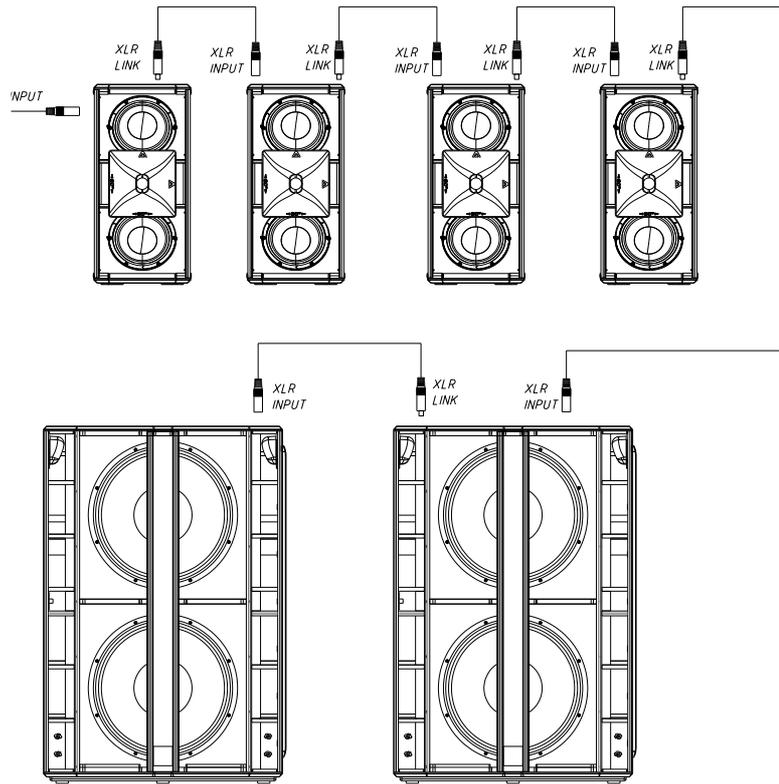


Fig. 10. Parallel connection for the X82FD and XW218 (signal). Use the same parameters for XW118.

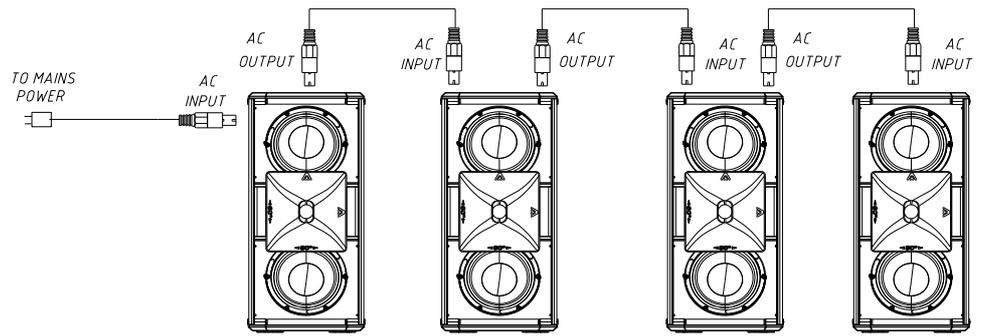
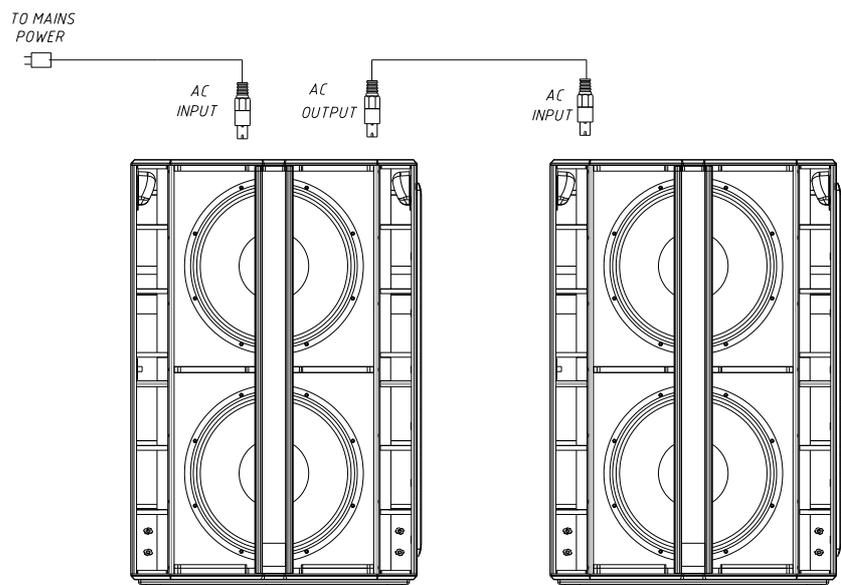


Fig. 11. Parallel connection for the X82FD and XW218 (mains). Do not connect more than four units of X82FD or two units of XW218 using the AC Mains link connector. In case you are using the XW118, do not connect more than four units.



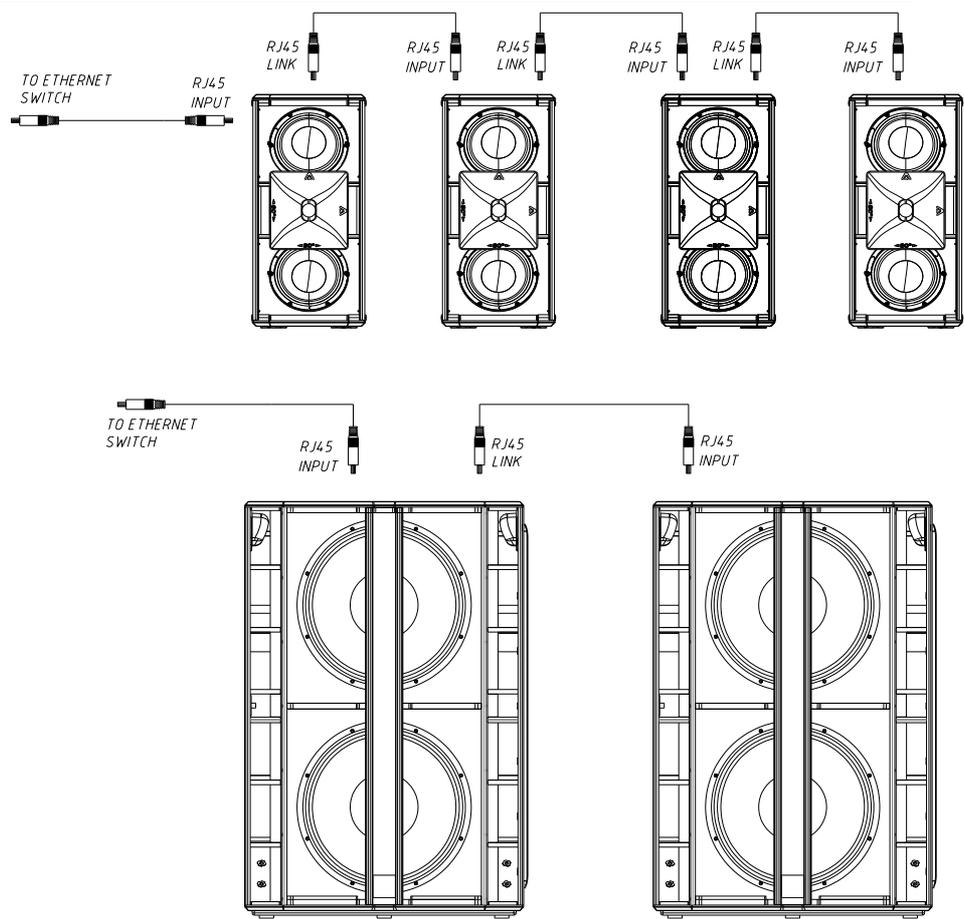


Fig.12. Parallel connection for the X82FD and XW218 (network). Do not daisy-chain more than eight units of each when using Dante networking. Use the same parameters for XW118.

6. OVERVOLTAGE PROTECTION

The active Xcellence series models incorporate an exclusive protection by Amate Audio against mains voltage overload and other related problems (loss of neutral, connection between phases, etc). In the mains input an electronic circuit compares the input voltage with a reference value. When the input exceeds 250 Volts, the circuit reacts by blocking the input tension until it returns to its correct limits (230V +/- 10%). When the “>250V” LED lights up red, the unit stops running, until the correct voltage is re-established.

Generally the cause of such an anomaly tends to be a neutral voltage drop or incorrect connection of the equipment to 400V supply. Whenever the overvoltage LED lights up, check the tension of the electrical phases: other devices in the sound system are also at risk of electrical fault and severe damage.

7. MOUNTING AND INSTALLATION

Flying an X82FD system is easy, fast and secure. To perform any operations related to flying the system, read the present document, and act on the warnings and advice given.

Only experienced installers with adequate knowledge of the system and local safety regulations should fly speaker cabinets.

It is the user's responsibility to ensure that the systems to be flown and the flying accessories (such as chains, eyebolts, lock pins...) comply with state and local

regulations. They should be regularly inspected and replaced if in doubt. When flying enclosures from ceiling support structures, extreme care should be taken to assure the load bearing capabilities of the structures. **Do not fly systems from unsafe structures.**

All flying accessories that are not supplied by Amate Audio are the user's responsibility. Use at your own risk. **Remember that no risks should be taken with regards to public safety.**

7.1. Placement

When possible, cabinets should be located in a high position, slightly inclined to the audience. If the loudspeakers are located too low, the listeners at the end of the room will not hear a good sound quality.

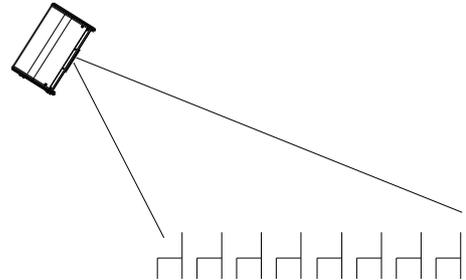


Fig. 13. Flying placement

7.2. X82FD with subwoofer

The X82FD is equipped with a 35 mm socket for mounting the speaker on a subwoofer (use SP/CRTL bar). Be careful not to use this system on non-flat surfaces as it may become unstable. The X82FD may be used with XW118 and X218WF subwoofers (both in stacking application or flying application).

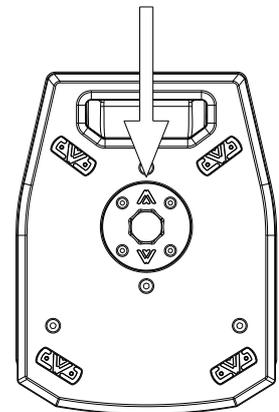


Fig. 14. X82FD 35 mm bottom socket

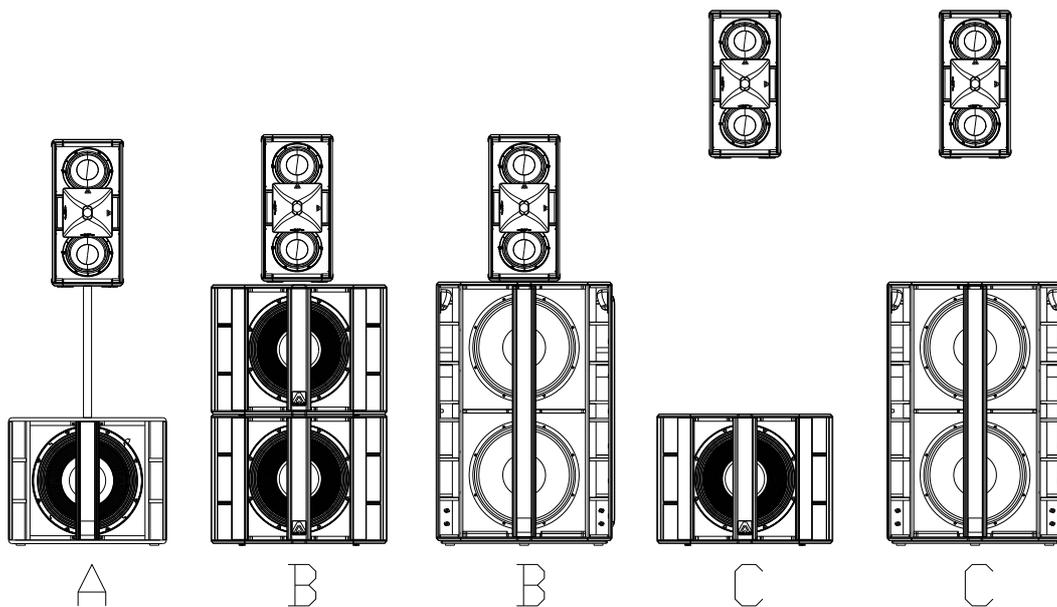


Fig. 15. X82FD with subwoofer (A: with pole, B: stacked, C: flown)

7.3. HF horn

In its original position, X82FD HF horn has a dispersion of 80° (horizontal) x 60° (vertical).



Each horn has the "80°" and "60°" marks printed on the 80° horizontal coverage side and the 60° vertical coverage side, respectively.

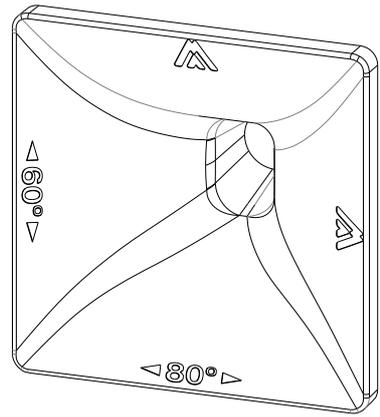


Fig. 16. X82FD HF unit

8. MOUNTING ACCESSORIES

8.1. ACRM8

The X82FD provides several M8 flying points. Their correct use will permit the flying in horizontal or vertical position.

Horizontal flying	4&5 or 7&8 (front rigging points) 3&6 (back tilt points)
Vertical flying	1&2 (front rigging points) 3 (back tilt point)

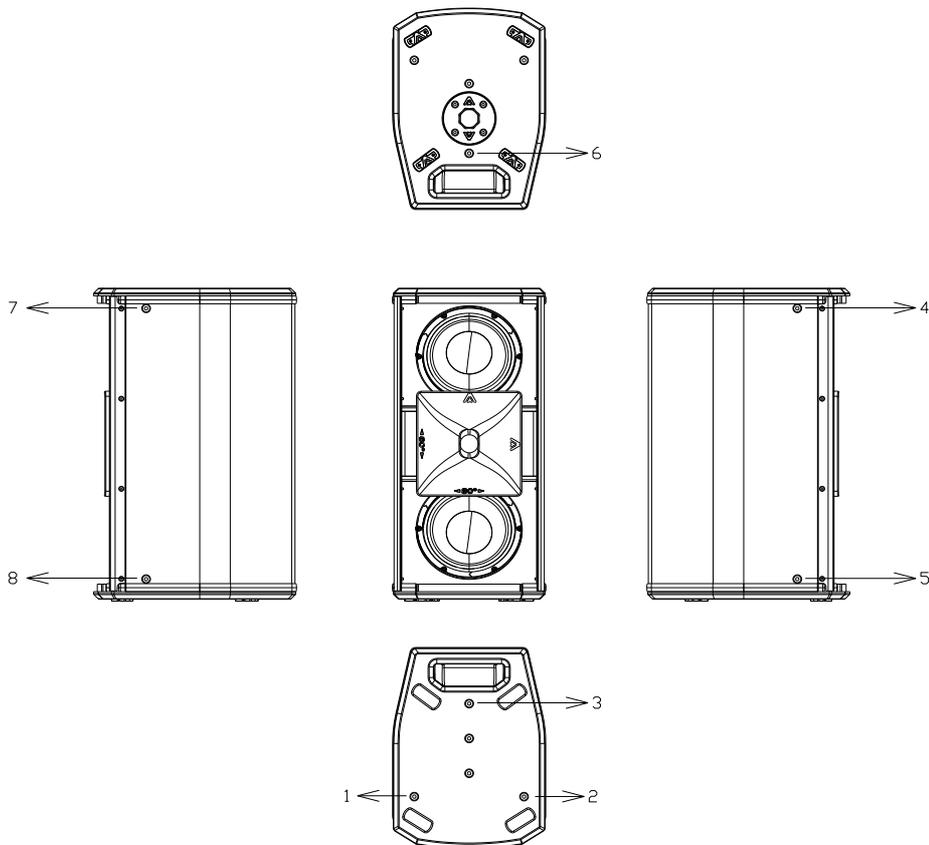


Fig. 17. X82FD horizontal and vertical flying points

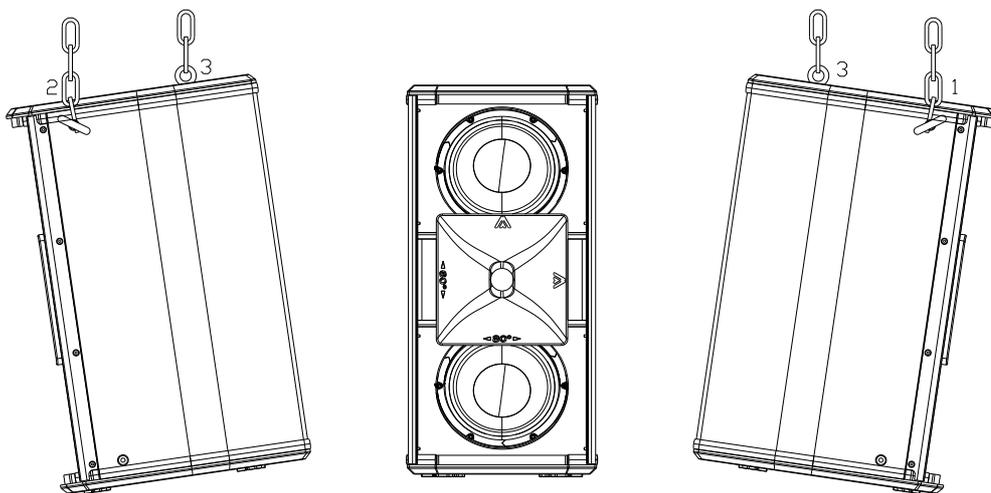


Fig. 18. X82FD vertical flying

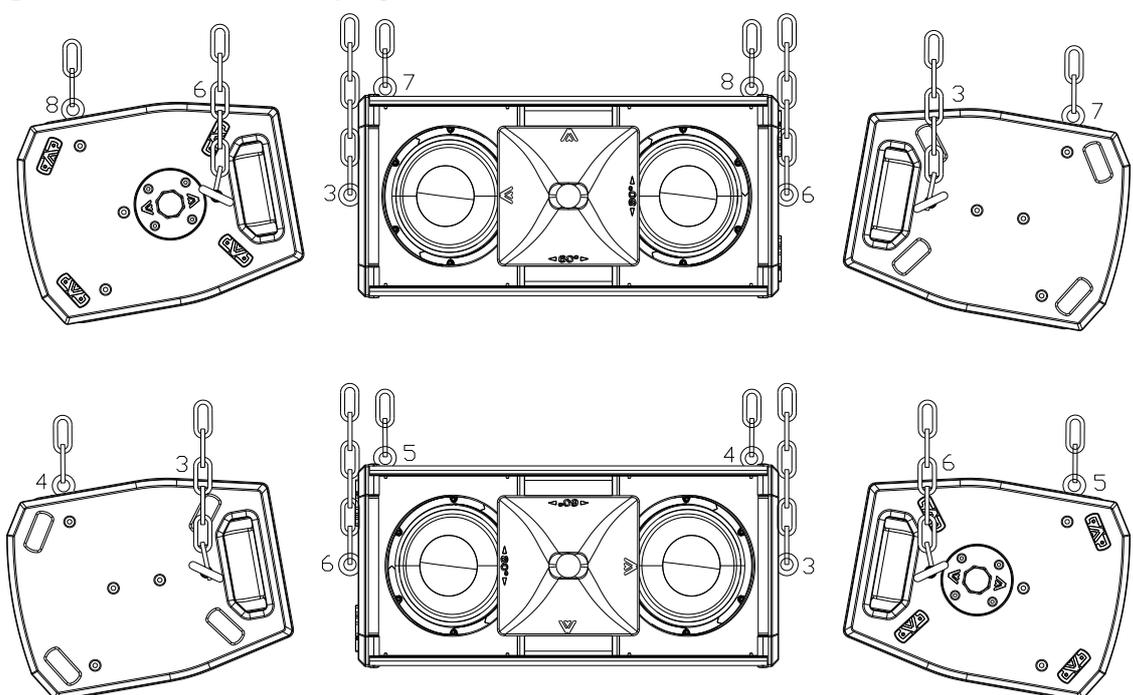


Fig. 19. X82FD horizontal flying

8.2. RB-S and RB-S/GT

The RB-S and RB-S/GT are two optional accessories for flying one X82FD (vertical orientation) (see “RB-S and RB-S/GT user’s manual” for more information).

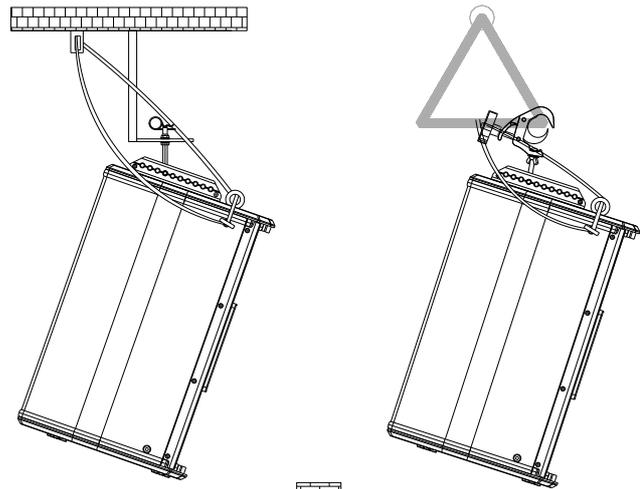


Fig. 21. Flying of one unit X82FD with RB-S and RB-S/GT

8.3. SP-WHR

The SP-WHR is an optional accessory for hanging one X82FD on wall (vertical orientation) (see “SP-WHR user’s manual” for more information).

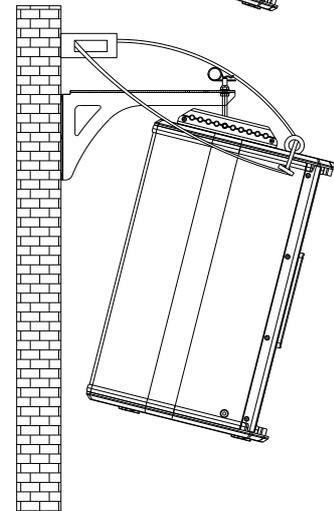


Fig. 22. Flying of one unit X82FD with SP-WHR

8.4. RB-L1082

The RB-L1082 is an optional accessory for flying two X102FD, two X82FD or one X102FD + one X82FD, one below the other. (see “RB-L1082 user’s manual” for more information).

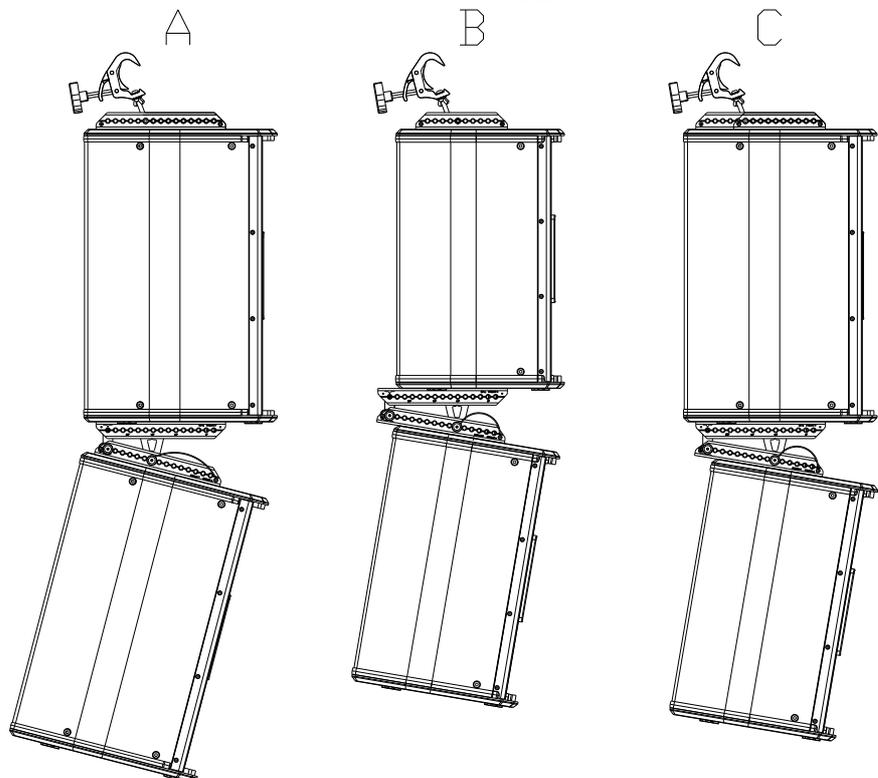


Fig. 23. Flying of two units X102FD (A), two units X82FD (B) and one unit X102FD + one unit X82FD (C) with RB-L1082

9. TROUBLESHOOTING

System not powering up

- Check the Overvoltage Protection leds
 - No LED lit: Check if voltage is arriving to the PowerCon socket, and if mains cable is in good condition. If yes, the overvoltage circuit may be damaged. Contact support.
 - Red (>250V). Voltage arriving to the PowerCon socket is above 250VAC. Check the mains voltage is in the rated limits (230VAC +/-10%). If mains voltage is OK, the overvoltage circuit may be damaged. Contact support.
 - Blue (Power On): Overvoltage circuit is functioning properly. If none of the Status LEDs or the touchscreen are being lit, the fuse in the power module may be blown. The replacement of this fuse must be carried out by specialized personnel as it is an internal component of the amplifier module.

No output sound

- Check with the indicators (Signal Present LED & Touchscreen) that the signal is being received by the system.
- Check that the signal cables are in good condition and connected at both ends
- The mixer output level must not be at minimum.
- Check that the mixer channel is not muted.
- Check that the system is not in MUTE or STANDBY (MUTE LED or STANDBY LED) not lit. If yes, go inside the menu using the touchscreen and deactivate them:
 - To disable the Standby go to SETUP and select STANDBY OFF.
 - To disable the MUTE go to AUDIO, GAIN and push the icon with a loudspeaker.
- Check that the system GAIN is not set to the minimum. To do that, go to the AUDIO setting using the touchscreen, select GAIN and move the slider to the 0dB position.

Distorted output signal

- The system is being saturated with a very high input signal, frequently caused by the same mixer. Check the output level or mixer gain channels.

Poor bass levels

- Check the polarity on the signal connections between the mixer and cabinets. If any of the Pins (1, 2 or 3) have been inverted at the cable ends, this will cause significant performance and sound quality loss.

Noise and Hum

- Check that all the connections to the active units are in good condition.
- Avoid intertwining between mains supply cables or proximity to transformers or Electromagnetic (EMI) emitting devices.
- Check there is no light intensity regulator in the same AC circuit as the unit. ALWAYS connect the sound and light circuits in different phases.
- Check that there is a proper connection to EARTH in the electrical installation.

Forgotten PIN for Touchscreen

- The default PIN is "1234".

- Should you have changed the PIN and forgotten it, follow these steps:
 - Turn the system off.
 - Turn the system on.
 - When the display shows the word "Initializing", press anywhere on the touch screen during at least 5 seconds.
 - The PIN will be restored to its default value "1234".

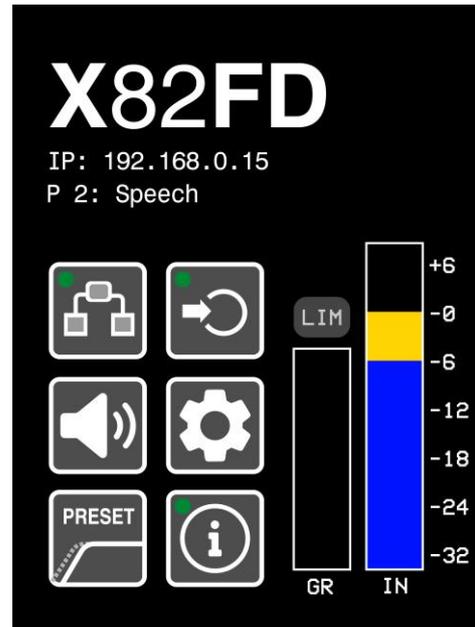
10. TECHNICAL FEATURES

	X82FD
Analog Audio Input	
Sensitivity	+8dBu – 1.94V
Impedance	20kΩ balanced
Audio Network Input	
Type	Dante™ Audio Networking
Channels	1 channel @ 48kHz
Mains Supply	
Type	Univ. switch mode power supply
Nominal input	85-265 VAC/45-65 Hz
Average current draw	2.9 A
AD/DA converters	24 bit / 48 kHz
DSP architecture	64 bit
Frequency response (-10 dB)	68Hz-19kHz
Maximum output level (1m/continuous)	134 dB
Amplifier (program)	2500+500W
Nominal directivity (-6dB)	80° x 60°
Components	
LF	2 x 8" neodymium woofers (2" long excursion dual voice coil)
HF	1 x 3" titanium diaphragm neodymium driver
Cabinet	
Type	Bass-reflex
Height	624 mm
Width	303 mm
Depth	402 mm
Weight (net)	23 Kg
Connectors	2 x AC PowerCon (input, link) 2 x XLR (input, link) 2x Ethercon RJ45 for Ethernet/DANTE (connection/link)
Material	Multilayer birch plywood, steel front grille with acoustic grey cloth
Finish	Hi-resistance black Polyurea coating and protective rubber profiles

ANNEX I. TOUCH PANEL OPERATION

The Amate Audio X82FD unit comes equipped with internal signal processing, featuring an adjustable DSP that can be controlled via touchscreen. The key specifications of the display are:

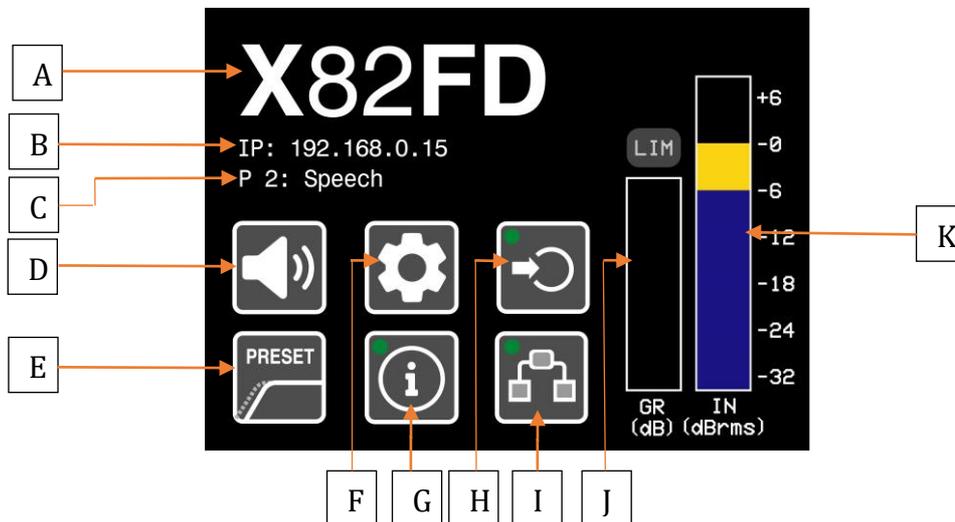
- TFT-LCD panel
- 320x240 resolution
- 180-degree viewing angle
- 16.7 million colours

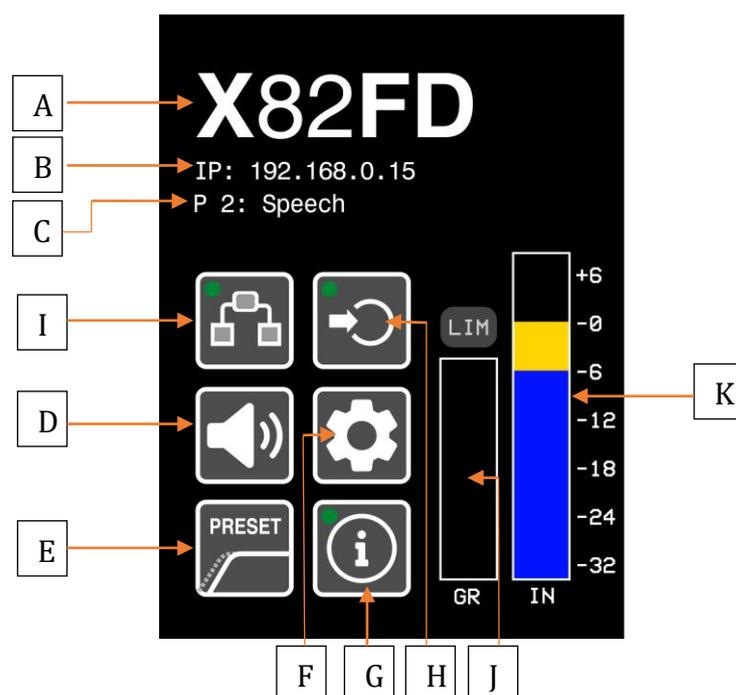


I.1. Main screen

When we connect the system, an initial loading screen appears displaying the Amate Audio logo, the firmware version, and the processing version. Once the system is initialized, a welcome screen is shown. This screen includes the speaker model and its serial number.

When the speaker is ready to work, the main screen is displayed, it has the following elements:





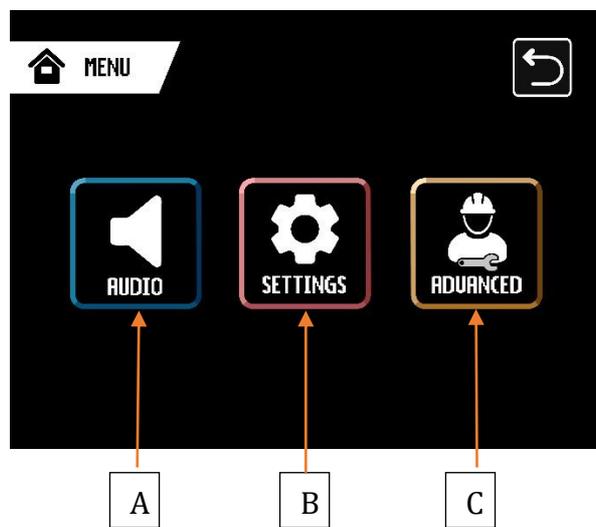
- A. Speaker model
- B. **IP**: IP address of the speaker.
- C. **Preset**: Number and name of the active preset.
- D. **Mute button**: When it is pressed, the button silences the audio output without turning off the amplifiers. This process permit return immediately to initial state when we touch again.
- E. **Preset button**: Quick access to preset selection.
- F. **Configuration button**: Access to the speaker's configuration. There you can configure specific adjustments. Access to this button can be protected by password. The default key is 1234.
- G. **Information button**: Shows information about the active parameters of the speaker. In top-left corner, it has dynamic indicator.
 - a. Green: The device is ready to use.
 - b. Yellow: The device is in "Standby" mode.
 - c. Red: The device is muted.
- H. **Input button**: Indicates what the signal source is. Options include:
 - a. Analog: for XLR input.
 - b. Dante: for RJ-45 digital Dante input.
 - c. Auto: Automatic selection between analogue and digital input.
- I. **Network button**: Access to network configuration. In top-left corner, it has dynamic indicator.
 - a. Green: The speaker is connected to the network.
 - b. Yellow: The speaker is not connected to the network.

- J. **Input Signal Meter:** Indicates the level of the signal input. The level is indicated in decibels relative to the sensitivity of the speaker with a headroom of 6dB. If the signals is over 0dB, a clipping indicator is shown in red.

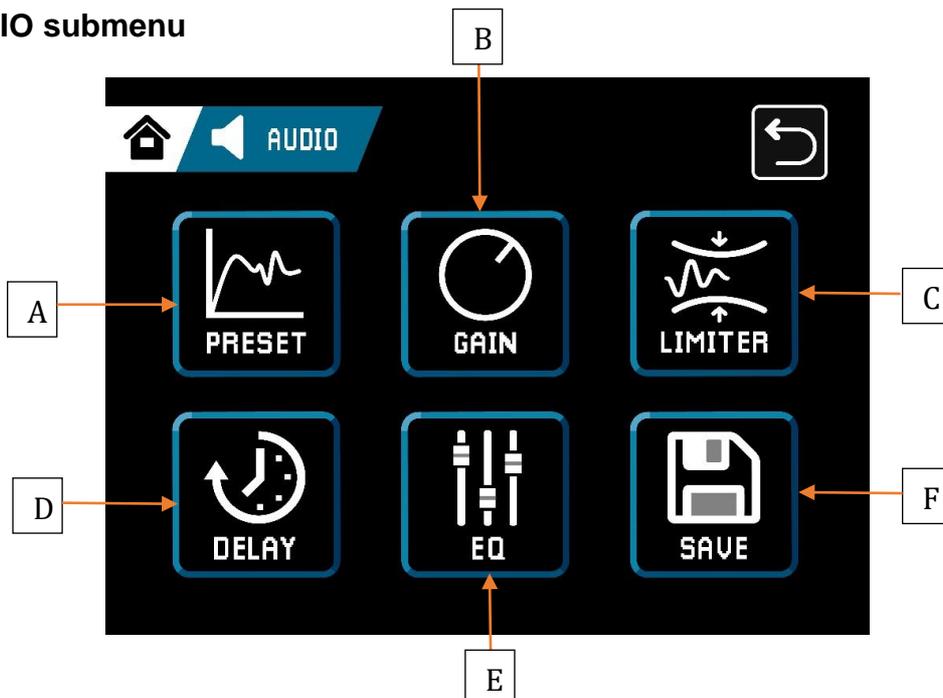
I.2. Main MENU

With the unit unlocked and by pressing the configuration button (gear icon), we access the unit's setting screen.

- A. **Audio:** Adjustment and configuration of the audio signal.
- B. **Settings:** Configuration unrelated to the unit's audio.
- C. **Advanced:** Advanced configuration parameters focused on technical personnel.

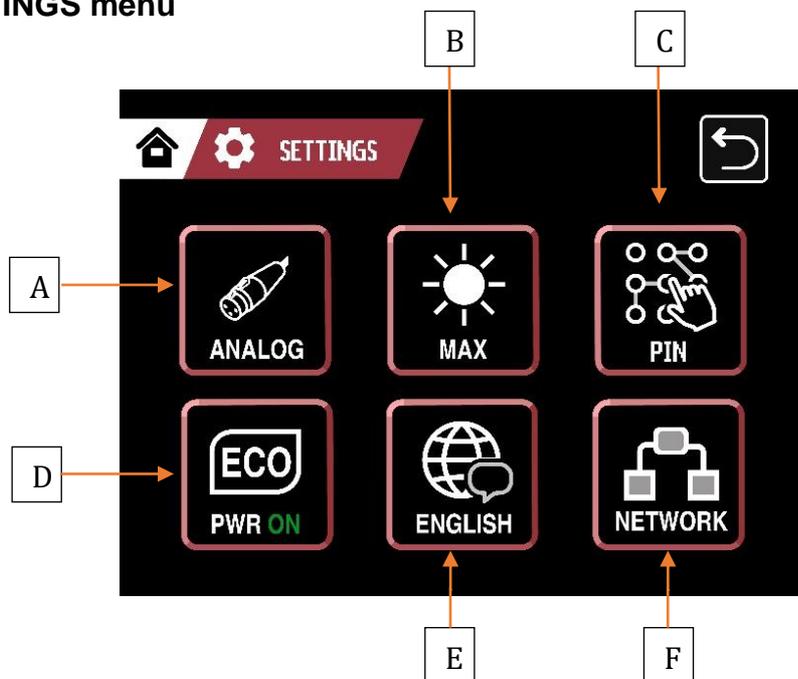


I.3. AUDIO submenu



- A. **Preset:** Selection of factory sound presets. The available factory presets depend on each model and can be found on each model user manual.
- B. **Gain:** Control of the input gain using a fader that allows it to be adjusted to the needs of the application. The system can also be muted using the button with the speaker icon.
- C. **Limiter:** Setting the threshold of the integrated limiter. The threshold indicates the level of input signal at which the limiter will start to act. The limitation indicator shows the behaviour of the limiter in real time, displaying the current gain reduction (GR: Gain Reduction).
- D. **Delay:** Adjustment of the delay of the input signal. It can be configured in milliseconds or meters, showing the equivalence between the two. The polarity of the input signal can also be configured.
- E. **Save:** Access to the unit's internal memories. Allows creating a new user preset with the current configuration of the equalizer, delay, gain, and limiter. There are up to a maximum of 24 memories available.

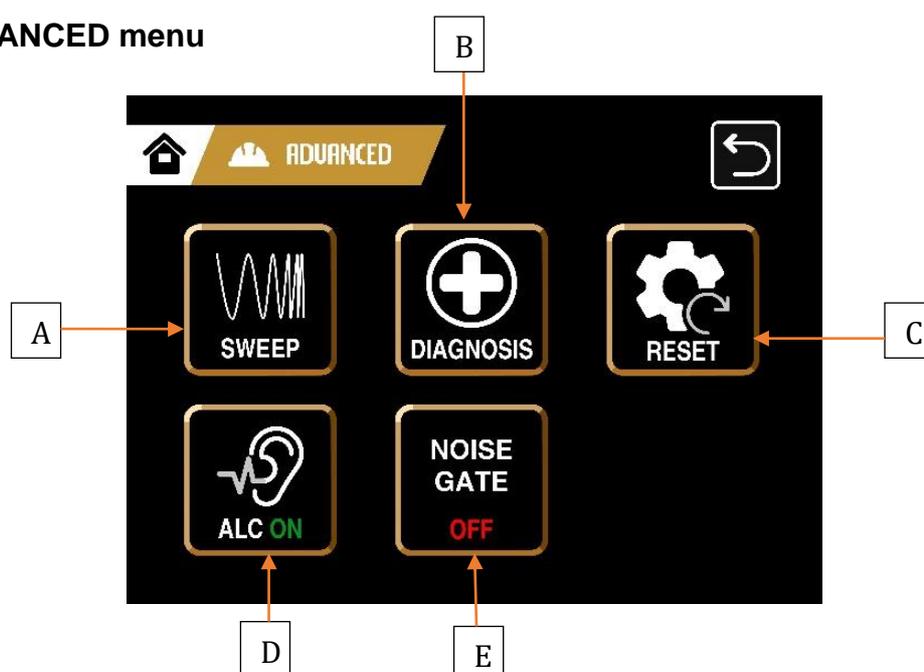
I.4. SETTINGS menu



- A. **Input Selection:** Allows us to choose which input the internal processor will use. The options are ANALOG, DANTE, or AUTO. In AUTO mode, the unit automatically chooses the audio source. In case of conflict (simultaneous use of XLR and Dante connectors), the unit prioritizes the Dante digital signal. If the Dante signal becomes unavailable at any point, the unit automatically switches to the analogue input.
- B. **Screen Brightness:** Three levels of brightness can be selected: MAX (Maximum), MED (Medium), and MIN (Minimum).

- C. **PIN Lock:** Allows setting up a lock on the unit via a PIN code. With PIN lock configured and activated, a locked padlock icon is displayed on the main screen. To unlock the unit, it is necessary to press on the padlock and enter the unlock code.
- D. **ECO Button:** Configures the behaviour of the unit's internal amplification stages.
- PWR ON: The amplification system is operational and ready for immediate delivery of amplified signal.
 - STANDBY: The amplifiers enter a resting state, thus they will not emit a signal even if the unit is powered on.
 - AUTO: The amplifiers remain in rest until an input signal is detected, at which point they become operational.
- E. **Language Selection:** Allows selecting the language of the interface. The options are SPANISH, CATALAN, and ENGLISH.
- F. **Network Button:** Allows configuring the IP address and network mask of the speaker.

I.5. ADVANCED menu



- A. **Sweep:** Acoustic diagnostic of the unit. A sinusoidal wave is emitted that sweeps through the entire audible range. A sweep will be performed for each loudspeaker way. The duration of each sweep is approximately two seconds.
- B. **Diagnosis:** Access to the system information menu. In this menu, we can find information regarding the use of the speaker and data on the current, temperature, and the status of the device.
- C. **Reset:** Resets all the parameters. A pattern is requested as confirmation for the process. Once done, all parameters and settings revert to factory defaults.

- D. **ALC: (available in selected models only)** Allows activating or deactivating the Automatic Loudness Compensation algorithm. This algorithm is based on psychoacoustic studies, which show that the ear loses sensitivity to low and high frequencies as the volume increases. The algorithm compensates for this nonlinear behaviour of the ear, enhancing the presence of low and high frequencies as the signal level decreases. Its use is not recommended for live sound applications. It is ideal for fixed installations or background music systems.
- E. **Noise Gate: (available in selected models only)** Allows activating or deactivating the noise gate. This dynamic processor is used to eliminate possible noises produced by the electroacoustic components of the speaker when it is not reproducing sound.



DECLARATION OF CONFORMITY

In accordance with EN 45014:1998

Manufacturer's Name: "AMATE AUDIO S.L."
Manufacturer's Address: C/ Perpinyà 25, Polígon Industrial Nord
08226 Terrassa, (Barcelona), SPAIN
Brand: "AMATE AUDIO"
We declare under our own responsibility that:
Product: Active speaker systems with DSP. Audio apparatus for professional use
Name: Xcellence X82FD

Conforms to the following product specifications:

Safety: IEC 60065-01 + A1
EMC: EN 55022:2006
EN 55103-1:2009
EN 55103-2 2009
FCC Part 15

WARNING:

In accordance to EN55022, this is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Supplementary Information

The product herewith complies with the requirements of the:

Low Voltage Directive 2006/95/EC
EMC Directive 2004/108/EC
RoHS Directive 2002/95/EC
WEEE Directive 2002/96/EC

With regard to Directive 2005/32/EC and EC Regulation 1275/2008 of 17 December 2008, this product is designed, produced, and classified as Professional Audio Equipment and thus is exempt from this Directive.

Date of issue: September 1st., 2024

Signature:

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Conformity Marking

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*Great sound
from Barcelona
since 1972*

XCELLENCE speaker systems have been designed,
engineered and manufactured in Barcelona – SPAIN by

Los **sistemas acústicos XCELLENCE** han sido
diseñados y fabricados en Barcelona – ESPAÑA por

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