Pioneer XPRS102 XPRS Series Active Loudspeaker Active Subwoofer Instruction Manual

Contents

Pioneer XPRS102 XPRS Series Active Loudspeaker Active Subwoofer

Product Information

The XPRS2 Series consists of active loudspeakers and active subwoofers designed by Pioneer DJ for professional DJ use. The series includes XPRS102, XPRS122, XPRS1152S, and XPRS1182S models. These speakers feature an integrated pull-back cover for protection and easy transportation. The full-range models have a rear panel with a DSP display, digital signal processing, master volume, mic input, hi-z/line input, signal limiter, power switch, stereo mix-out, and input level controls. The subwoofer model has a rear panel with a DSP control menu accessed by pressing the master volume knob. All models have AC power input and an on/off switch.

Product Usage

Before using the speaker, read the instruction manual and precautions for use carefully and keep them together with the warranty.

Setting Up

1. Connect the power cord to the AC input on the rear panel and then to a power outlet.
2. Turn on the speaker by flipping the power switch to the “on” position. The power LED will light up.
3. Connect your audio source to the speaker using the input controls on the rear panel. You can connect a mixing console, instrument, or microphone via a 1/4-inch TRS or XLR connector. Use the input level controls to adjust the volume of each input. The hi-z signal light turns on when you plug in a guitar, and the mic signal light turns on when you plug in a microphone.
4. If you have multiple speakers, you can connect them by using the stereo mix-out XLR output on the rear panel.

DSP Control Menu

The full-range models have a DSP display on the rear panel that allows you to choose from multiple DSP and

system settings. To access the DSP control menu:

1. Press the master volume knob, and the DSP control menu will appear on the display.
2. Use the master volume knob to scroll through the menu items.
3. Press the master volume knob to select the menu item you want to modify.
4. Use the master volume knob to scroll through the menu items and select a setting.
5. The setting will be saved, and you will return to the level above in the menu.

Precautions for Use

- Do not use the speaker or subwoofer in wet or humid locations.
- Do not expose the speaker or subwoofer to direct sunlight, excessive heat, or vibration.
- Do not block the ventilation holes on the rear panel.
- Do not use excessive force when plugging in cables or connectors.
- Do not touch the connection terminals with your bare hands.

Follow these guidelines to ensure the safe and proper usage of your XPRS2 Series speaker or subwoofer.

How to read this manual
Thank you for choosing this speaker. To make sure you get the most from its functions and use them effectively, please read the Instruction manual and Precautions for Use carefully.
Please keep the Instruction manual and Precautions for Use together with the Warranty.

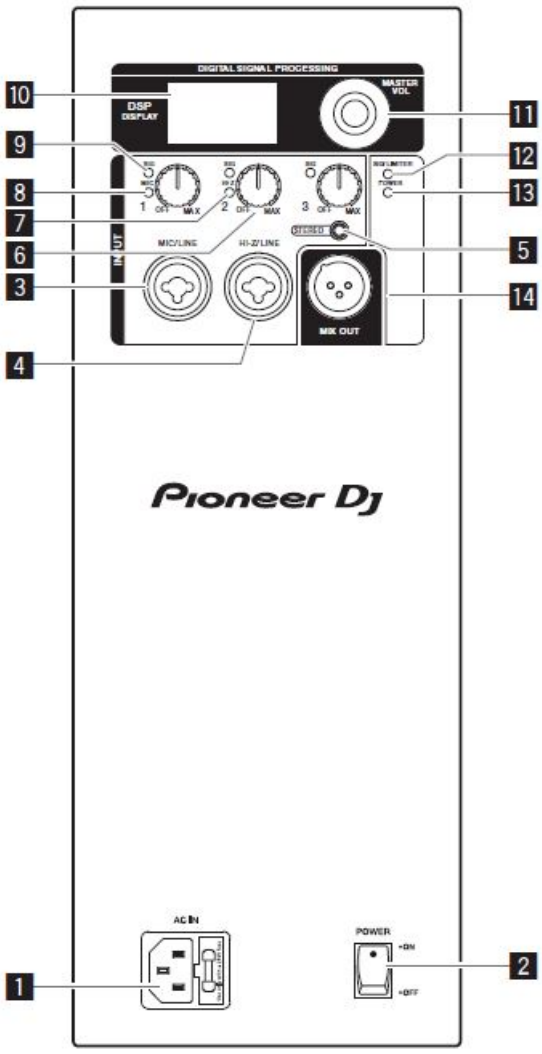
Main features

2000-W high output and high sound quality are achieved by mounting a D-class amplifier module in a wooden cabinet featuring outstanding acoustic characteristics. The XPRS2 can be used not only as a stationary sound system in a stationary facility but also as sound equipment for events as it can be easily transported and set up quickly.

- **System type:** Multi-purpose, active loudspeaker with DSP controls
- **Transducer driver:** 1-inch exit compression driver, 1.75-inch voice coil
- **Subwoofer:** ferrite woofer, 3-inch (76 mm) voice coil with long excursion
- **Power rating:** Class D 2000 W (peak)
- **4 DSP modes:** LIVE/MUSIC/SPEECH/MONITOR
- **Subwoofer:** 80 Hz, 100 Hz, 120 Hz (NORMAL, BOOST, EXTENDED LF)
- **Electronic protections:** Thermal/overload/digital limiter/compressor
- **Power supply:** 110 V – 240 V (50 Hz / 60 Hz)
- **Enclosure construction:** Plywood cabinet, black paint, rubber feet, metal handle
- **Mounting:** One metal standard pole-mount, 10 x M10 threaded inserts plus integrated pull-back cover

Control Panel

Rear panel (full-range models)



1. **AC INPUT**

   Connect the power cord to AC IN and then to the power outlet.

2. **POWER**

   AC switch for turning the power on or off. When the POWER is turned ON, the POWER LED and the LCD screen both light up.

3. **INPUT1**

   Level control for the LINE/MIC INPUT 1.

   INPUT

   Balanced input for sources such as mixing consoles, instruments, or microphones. Connections can be made via a 1/4-inch TRS or XLR connector.

4. **INPUT2**

   Level control for the HI-Z/LINE INPUT 2.

   INPUT

   Balanced input for sources such as mixing consoles, instruments, or microphones. Connections can be made using a 1/4-inch TRS or XLR connector.

5. **STEREO LEVEL**

   Line input level control for STEREO.

6. **INPUT LEVEL**

   Level control of the individual input.

7. **HI-Z signal light**

When sound from a guitar is input, the system setting changes to HI-Z sensitivity and the signal light turns on.

8. **MIC signal light**

   When sound from a microphone is input, the light turns on when the system setting changes to MIC sensitivity.

9. **SIG single channel signal light**

   When there is a signal, the signal light turns on.

10. **LCD**

    DSP control and monitoring interface.

11. **MASTER VOL**

    Total volume adjustment range: -60 dB – +10 dB.

    DSP

    Scroll through the menus and choose from the options. Press the MASTER VOL knob to select an item on the menu.

12. **SIG/LIMITER signal light**

    Lights up green when there is a signal, and red when the amplifier starts to compress.

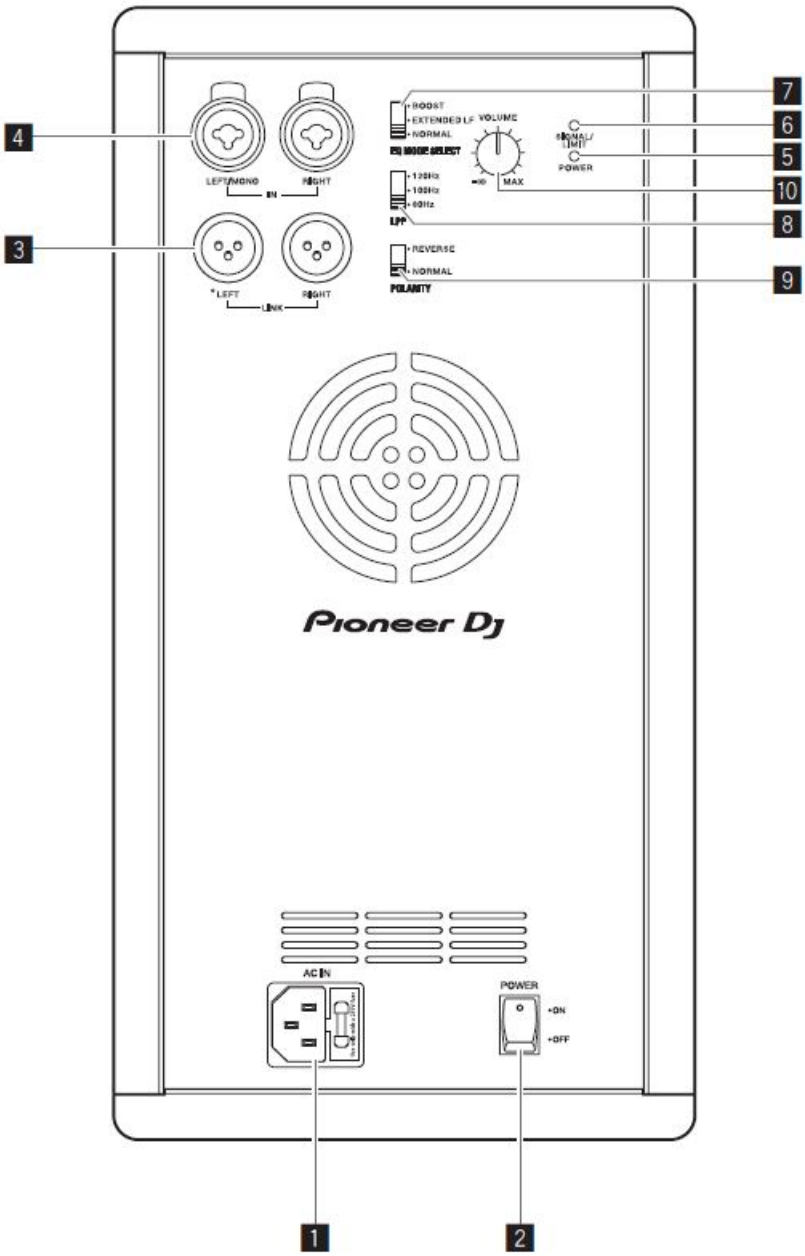
13. **POWER indicators**

    Lights up when the speaker is turned on.

14. **MIX OUT**

    The XLR output sends mixed input signals to other speakers or subwoofers. INPUT LEVEL controls the level of the signal sent to the MIX OUT. The MASTER VOL or DSP control settings do not affect the mixed output.

Rear panel (subwoofer model)



1. **AC INPUT**

   The AC connection is established via the IEC connector. The IEC connector is compatible with a lockout power cord (not included).

2. **POWER**

   AC switch for turning the power on or off. When POWER is turned on, the LED lights up.

3. **LINK**

   The XLR output sends mixed input signals to other speakers or subwoofers. VOLUME (input level) controls the level of signal sent to LINK. The MASTER VOL and DSP control settings do not affect the LINK signal.

4. **INPUT LEFT (mono)/RIGHT**

5. **POWER indicators**

   The POWER LED lights up when the speaker is turned on.

6. **SIG/LIMITER signal light**

   Lights up green when there is a signal, and red when the amplifier starts to compress.

7. **3DSP PRESET MODES**

   BOOST/EXTENDED LF/NORMAL

8. **LPF**

80 Hz/100 Hz/120 Hz

9. **POLARITY**

   REVERSE/NORMAL

10. **VOLUME**

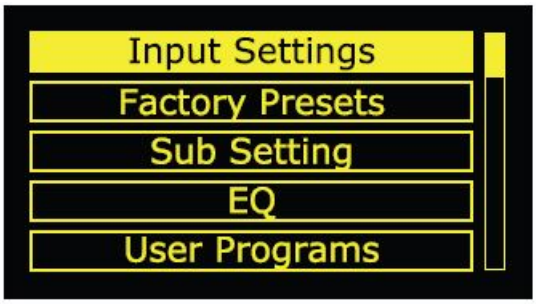
    Level control of an input signal.

DSP control

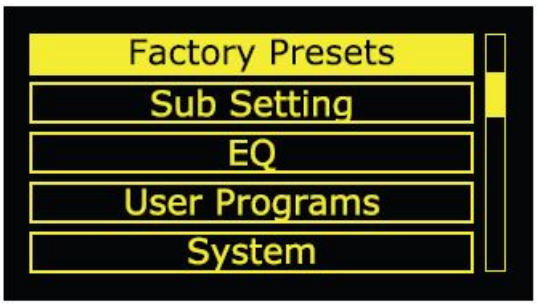
With the integrated DSP control menu, you can choose from multiple DSP and system settings on the speaker.

To access the DSP control menu, follow the steps below.

1. Press the MASTER VOL knob and the DSP control menu will appear.



2. Use the MASTER VOL knob to scroll through the menu items.



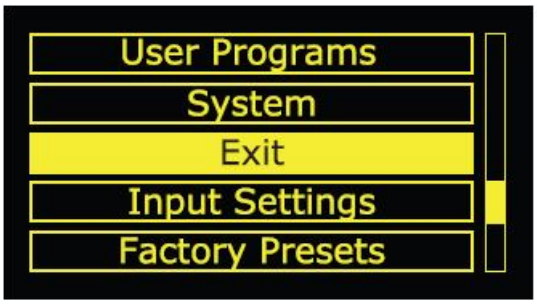
3. Press the MASTER VOL knob to select the menu item you want to modify.

   The menu item you chose will open on the right side of the DSP menu.

4. Use the MASTER VOL knob to scroll through the menu items.
5. Press the MASTER VOL knob to select a setting.

   The setting will be saved and you will return to the level above in the menu.

6. Repeat steps 2 through 5 to modify other DSP and system settings.
7. Select EXIT to return to the main screen.

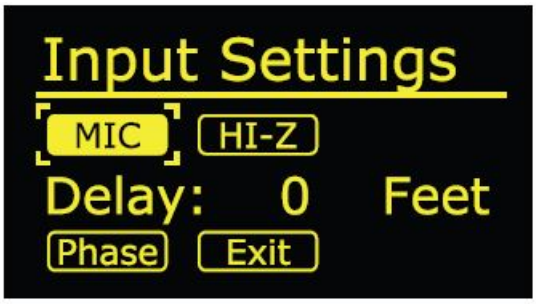


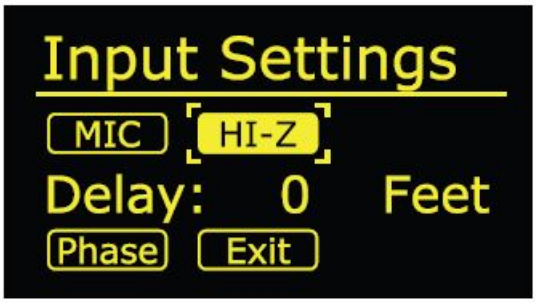
Full-range speaker DSP control menu
Full-range speaker DSP control menus are included on the XPRS102 and XPRS122 units.

EXIT menu item
Use the EXIT menu item to return to the home screen.

NOTE
After a minute of menu inactivity, the display turns off but the speaker continues working as normal.

MENU
You can use the Input Settings menu to configure the speaker's input sensitivity control as well as the Delay and Phase control settings.





The MIC setting is for the Input 1 input sensitivity control. After selecting the MIC input, the MIC light on the panel will turn on. The HI-Z setting is for the input 2 input sensitivity control. After selecting the HI-Z input, the HI-Z light on the panel will turn on. The Delay menu is for creating time calibrations with other speakers. The options

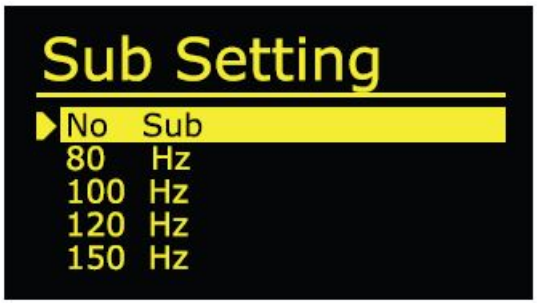
available range between 0 and 69.19 feet. The delay can be changed in increments of 0.69 feet. The default setting is 0 feet. Phase setting preset for the entire loudspeaker system.

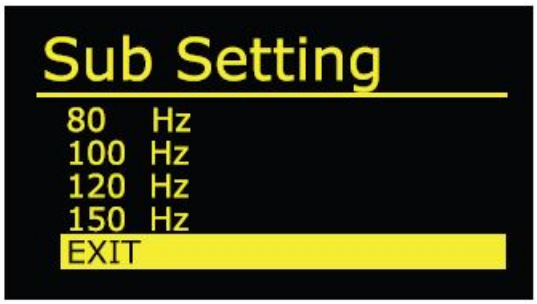
The Factory Presets menu is for configuring the type of sound the speaker sends. The options are: LIVE, MUSIC, SPEECH, and MONITOR. You can use the MASTER VOL menu button to configure the presets for different situations.

- **LIVE** – for live sound applications (default).
- **MUSIC** – for recording music and playing dance music.
- **SPEECH** – for voice-only applications.
- **MONITOR** – for ground monitoring.

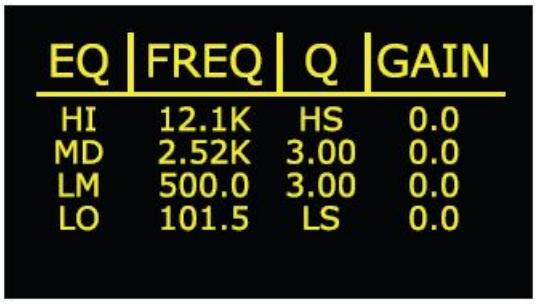
The Sub Setting menu is for selecting the high-pass frequency or matching subwoofer when one is used in the speaker setup. The options available for this selection are: No Sub, 80 Hz (80 Hz), 100 Hz (100 Hz), 120 Hz (120 Hz), 150 Hz (150 Hz), and the Qualcomm is a 24 dB/octave Linkwitz/Riley crossover. The 80 Hz (100 Hz), 100 Hz (100 Hz), 120 Hz (120 Hz), and 150 Hz (150 Hz) options are general high-pass settings for use with other subwoofers. The settings are optimized for the woofer (including delays for optimal overlay).

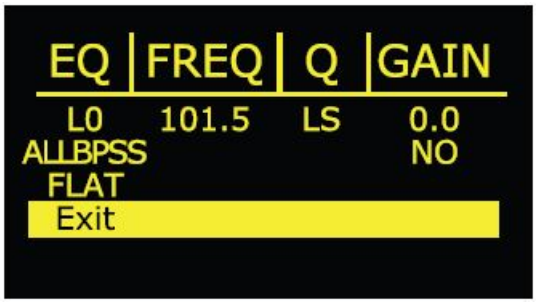
The default is No Sub.





EQ menu





The EQ menu is a 4-band EQ (equalizer) that you can fine tune in addition to FUNCTION and LOCATION. The options available are: HI, MD, LM, and LO.

Back		
HI	12.1K	Default: 0 decibels
MD	2.52K	Range: -18 decibels – +18 decibels
LM	500.0	ALLBYPASS will be deleted, invalidating all set EQs.
LO	101.5	FLAT is to restore all adjusted EQs to factory settings.

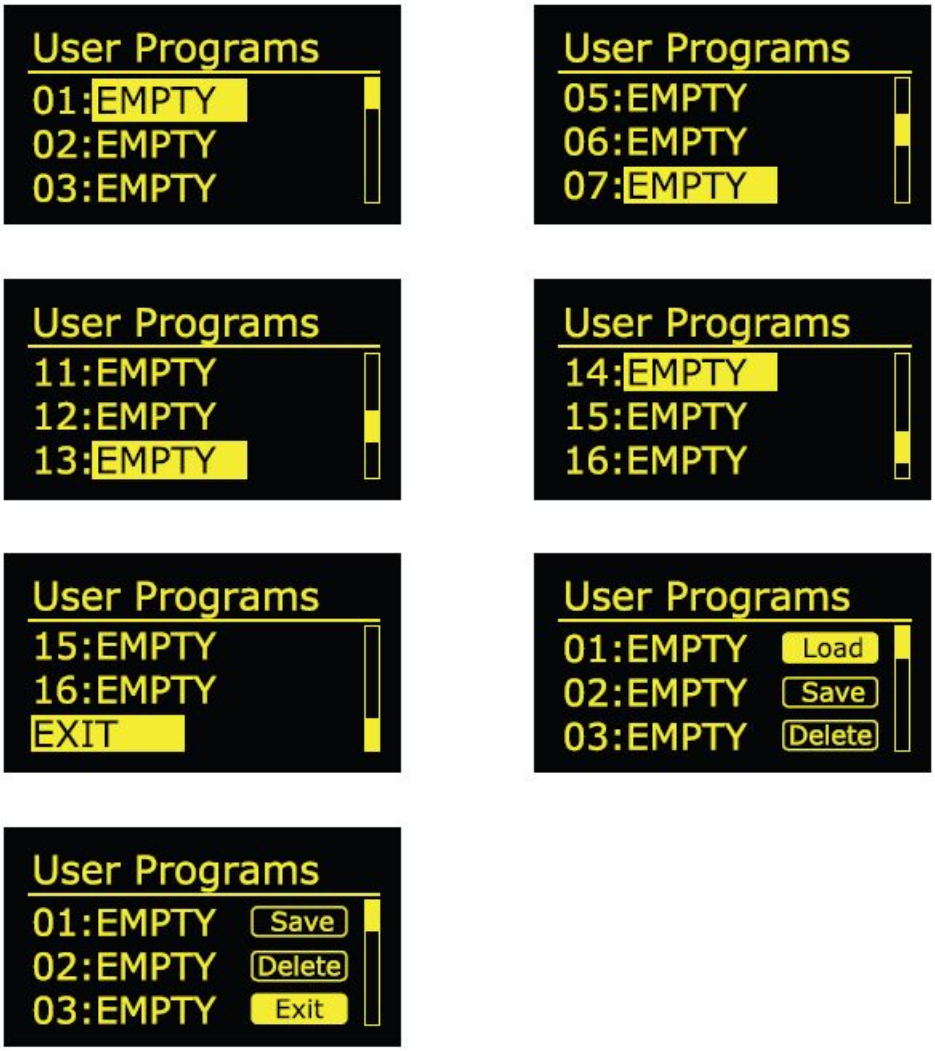
NOTE
The indoor equalizer (EQ) range shown is the factory default range for individual speakers. When the woofer is selected, any EQ below the crossover point is bypassed.

To use EQ above the crossover point, do the following.

- Rotate the MASTER VOL knob to reach the desired frequency.

User Programs

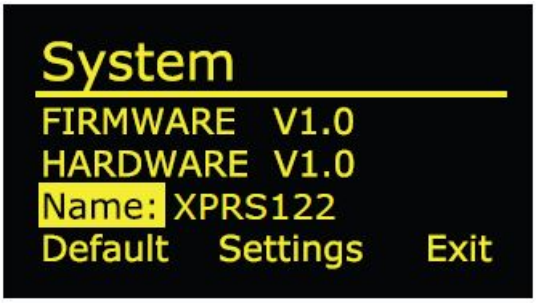
(saved user settings)



There are 16 presets that you can change and save EQ values for. You can also give them custom names with 7 English letters/symbols. Use the load/save/delete options to do this.

System menu

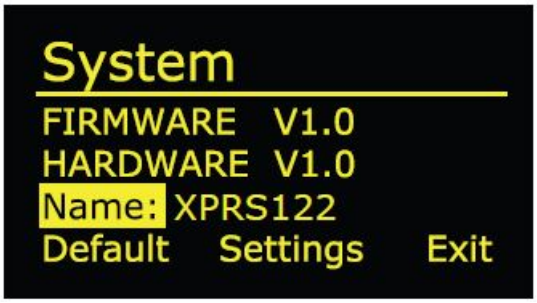
The System menu is for configuring the system. You can also configure the accessibility of this menu and modify the settings, and reset to factory defaults. The FIRMWARE/HARDWARE menu displays the current preset and firmware version.



The Name menu shows the name of the current speaker. This menu enables you to customize the name of the speaker. The Default Settings menu is for resetting the speakers to their original factory settings. The options for this selection are NO or YES. The Exit menu is for returning to the main menu.

To reset your system to the original factory settings, follow the steps below.

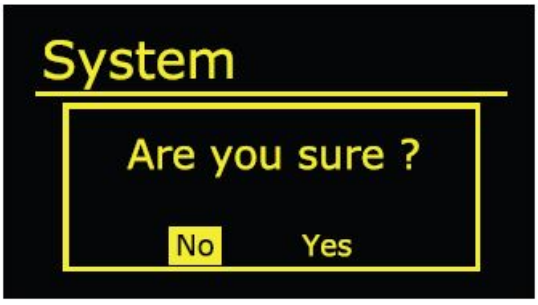
1. From the System menu in the DSP menu, select Default Settings.



   A message prompt to restore the factory settings will appear.

2. **Select Yes.**

3. When the prompt asks if you're sure, select Yes.



   The speaker will reboot the system and reset to the original factory settings.

Installation and connections

Important notes on installation
The sound produced by the speaker is subtly influenced by the conditions of the room you use it in. Carefully consider the installation location before setting up the speaker to ensure the best possible conditions. AlphaTheta Corporation will not be liable for any damages arising from use of the speaker (including but not limited to loss of business opportunities), regardless of the installation method used. Be sure to use the handles on the top or the sides of the speaker when moving and installing it.

CAUTION

- To help with proper cooling, please make sure enough space is kept between each speaker and nearby walls or other components
  (minimum 30 cm or more above, behind, and to the sides of each speaker). Leaving insufficient space may cause the temperature inside the speaker to rise, leading to malfunction or permanent damage.
- Use of this product, while it is stacked, is prohibited.

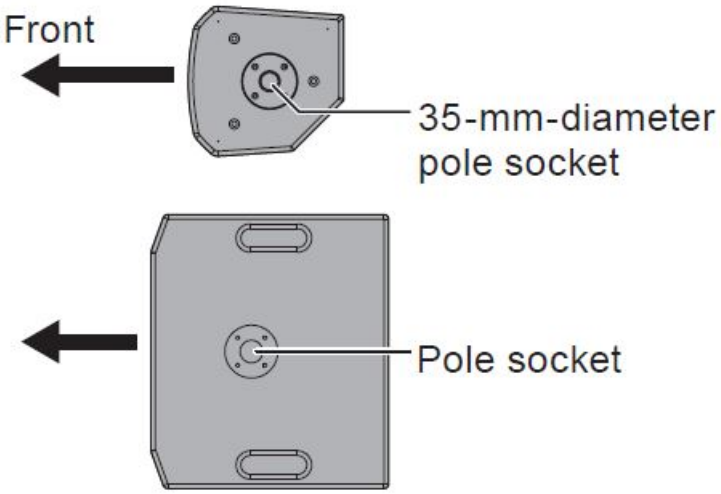
Installation using a speaker pole

XPRS102/XPRS122
The full-range models of the XPRS2 Series have a 35-mm-diameter pole socket on the bottom surface. The subwoofer model of the XPRS2 Series have a 35-mm-diameter pole socket on the top surface in which the pole can be secured firmly. The combinations shown in the following diagrams are recommended for the XPRS2 Series. Using a different combination may result in the speakers toppling over and possibly causing damage or injury. To use a speaker pole, check the cautions below and perform the installation safely.

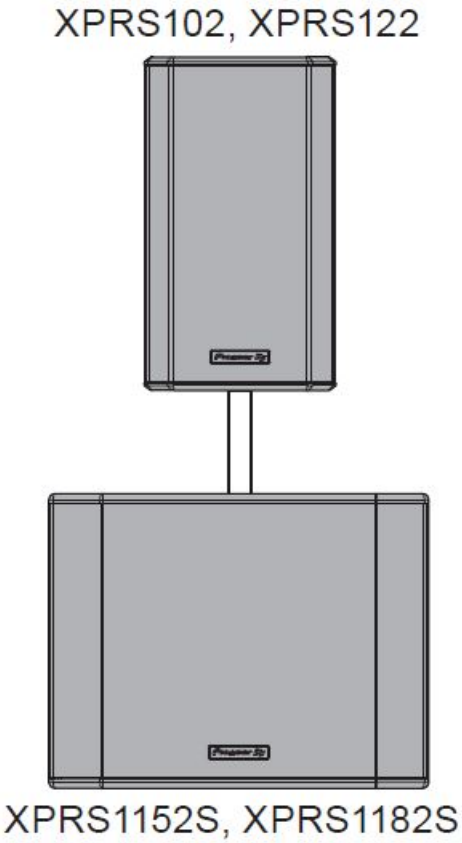
CAUTION

- At least two people should lift each speaker together to install it. Be sure to give enough consideration to safety when performing the work.
- Use a 35-mm-diameter speaker pole. Use a commercially-available product with a length of 900 mm or less. AlphaTheta Corporation will not be liable for any damages (including but not limited to loss of business opportunities) arising from the use of a speaker pole other than the type specified.
- Install the subwoofer in a stable, horizontal location and secure the speaker pole firmly.
- Ensure there is no danger of speakers toppling over.
- Cables should be taped or tied together with suitable tape or cable ties to avoid the danger of tripping on the cables and causing the speakers to topple over.

Pole socket



Installation using a speaker pole

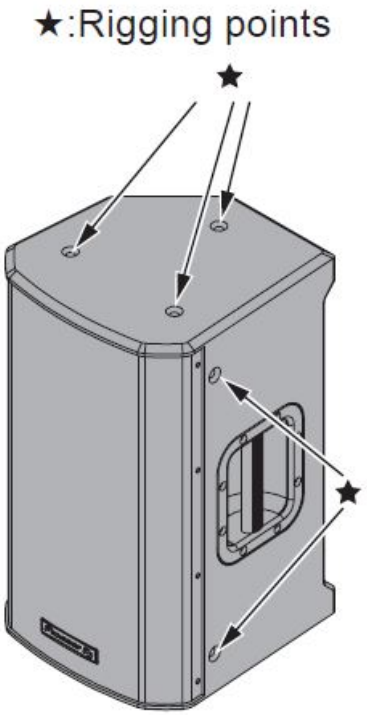


Installation using the rigging points on the speaker

- The full-range models have suspension-mounting rigging points on them. The speaker can be suspended using commercially-available eye bolts. The rigging point has an M10 screw hole (for an eye bolt with a thread length of 30 mm – 50 mm).
- When installing the speaker suspended, ask a qualified technician to perform the work.
- Remove the screws from the rigging points on the speaker and attach eye bolts. Do not use the speaker while the screws are removed. The sound will be adversely affected by air leakage.
- Be sure to use at least three rigging points to suspend the speaker. Furthermore, be sure to also implement an extra safety measure such as using a wire.
- Use brackets, wires, and a wall or ceiling strong enough to bear the weight of the speaker. Ask for

commercially-available brackets at the shop where you purchased the speaker.

- Be sure to confirm the safety after installing the speaker and periodically thereafter.

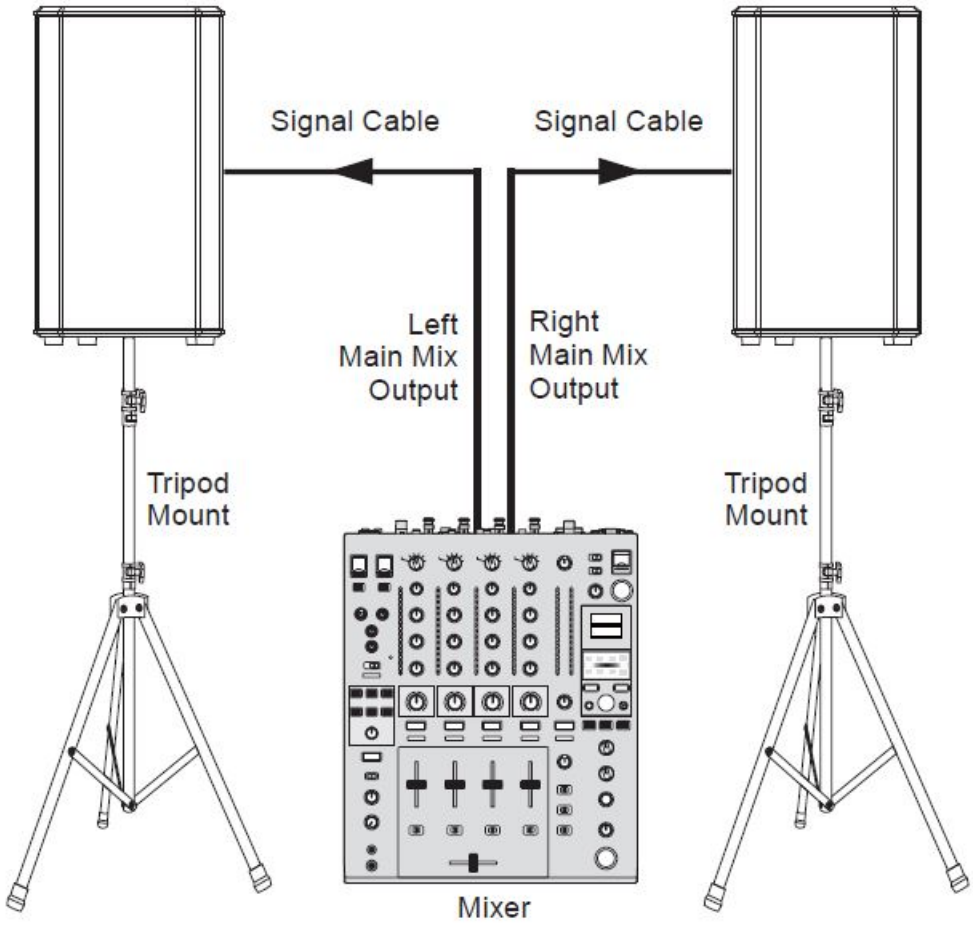


Connections

For active full-range speaker system

CAUTION
Make your initial connections with all the equipment powered off and ensure all the main volume controls are turned down completely.

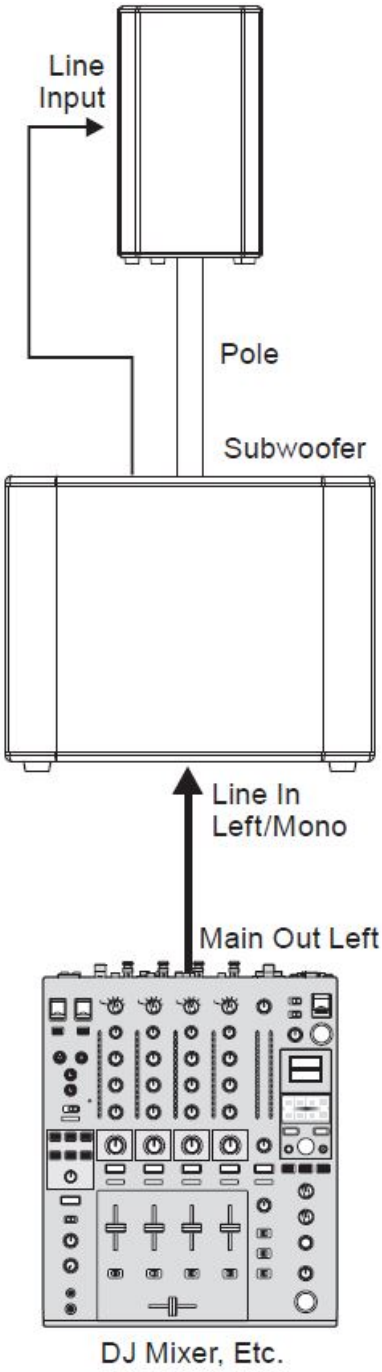
1. Connect one end of a signal cable to the Output Left/Right on your mixer (with a stereo jack or XLR connector) and connect the other end of the cable to the Line Input (COMBO) on your active speaker (with a stereo jack or XLR connector).
2. Connect the power cord to a mains supply.
3. Turn on your mixer first, then the active speakers.
4. Turn up the volume control of the speakers.
5. Use the PFL function on the mixer to get the proper input level, and adjust the Main Mix Level control to reach the desired output level.
6. When finished, turn off your active speakers first, then the mixer.

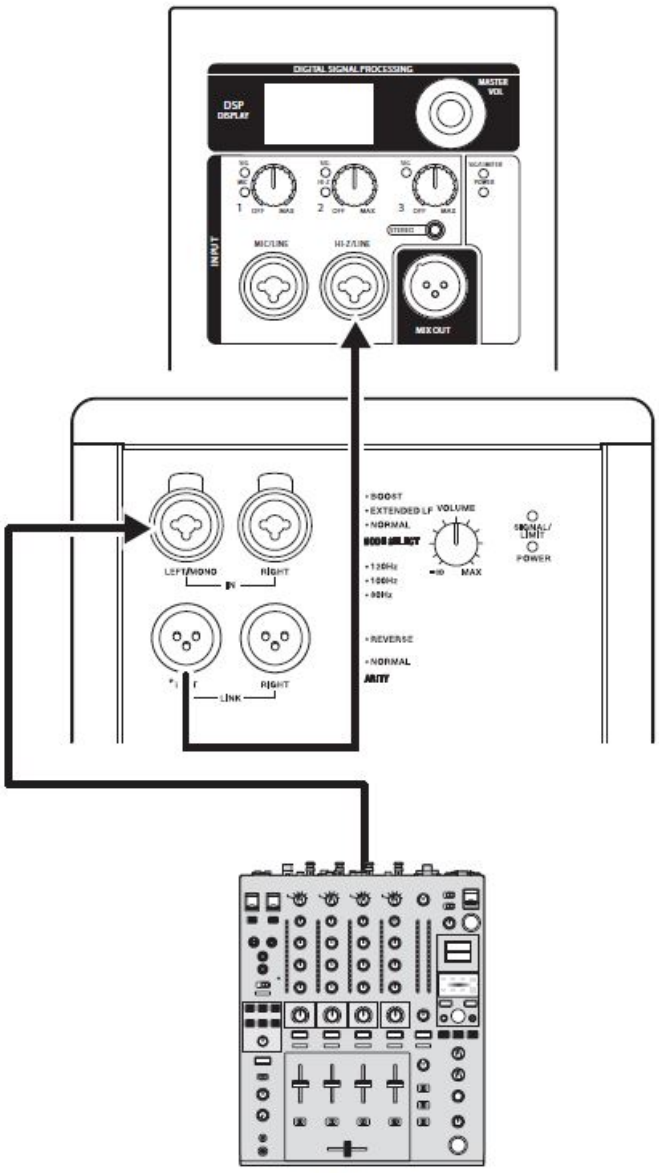


Active subwoofer and active satellite speaker

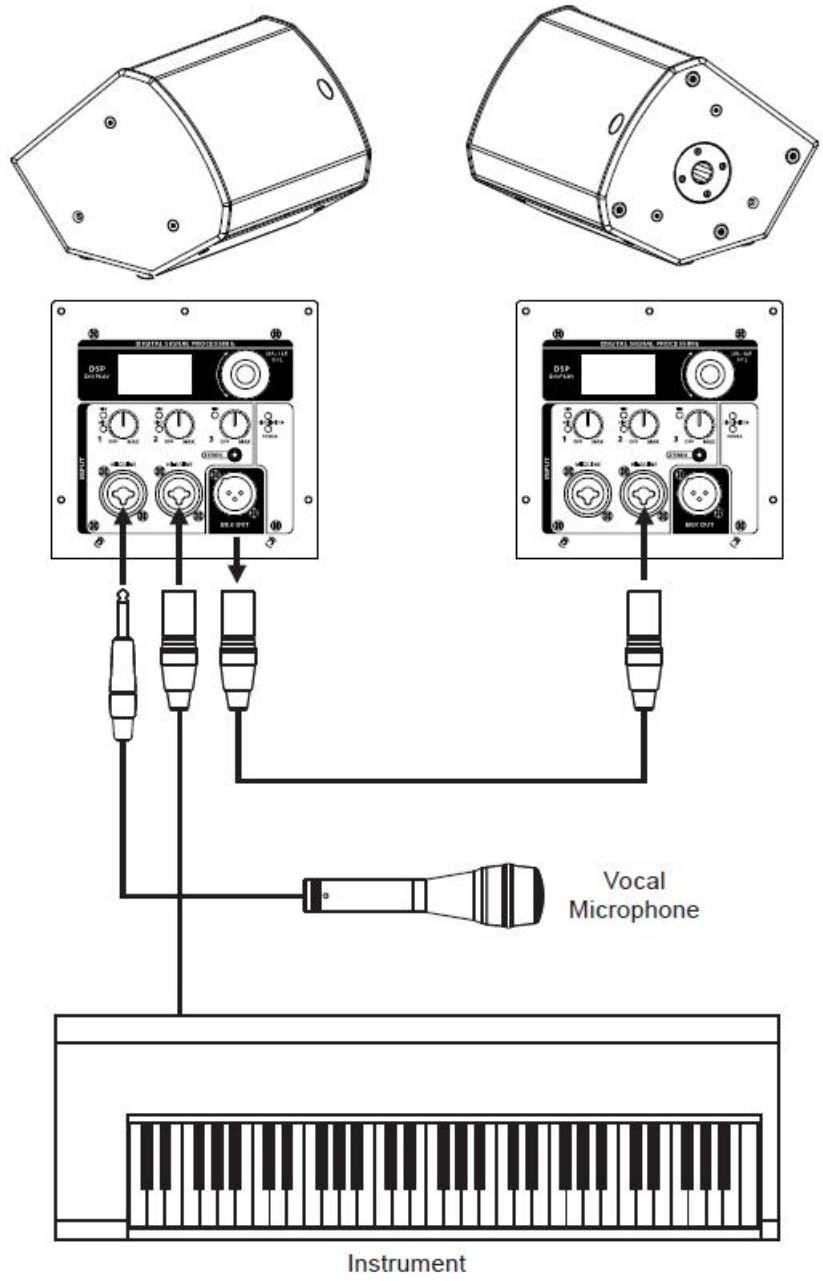
CAUTION
Make your initial connections with all the equipment powered off and ensure all the main volume controls are turned down completely.

1. Connect one end of a signal cable to the Output Left/Right on your mixer and connect the other end of the cable to the Line Input on the corresponding (left or right) active subwoofer.
2. Connect one end of another signal cable into the Link Left/Right or Out Left/Right of the active subwoofer, and connect the other end to the Line Input Left/Right of the active satellite speaker.
3. Connect the power cord to a mains supply.
4. Turn on your mixer first, then the active speakers.
5. Turn up the volume control of the active speakers.
6. Use the PFL function on the mixer to get the proper input level, and adjust the Main Mix Level control to reach the desired output level.
7. When finished, turn off your active speakers first, then the mixer.


Line
Input
Pole
Subwoofer
Line In
Left/Mono
Main Out Left
DJ Mixer, Etc.


DIGITAL SIGNAL PROCESSING
DSP DISPLAY
MASTER VOL
INPUT
MIC/LINE
HI-Z/LINE
MIX OUT
LEFT/MONO
RIGHT
LINK
• BOOST
• EXTENDED LF
• NORMAL
VOLUME
MAX
SIGNAL/ LIMIT
POWER
• REVERSE
• NORMAL

DJ Mixer, Etc.



The direction of the arrow indicates the signal path.

Factory presets	MONITOR
Subwoofer	No Sub

Specifications

Model	**XPRS102**
System type	Multi-purpose, 2-way active loudspeaker with DSP controls
Transducer low	10” woofer, 2.5” voice coil
Transducer driver	1” exit compression driver, 1.75” voice coil
Frequency response (-6 dB)	50 Hz – 20 kHz
Max SPL	129 dB
Power rating	Class D 2000 W (peak)
4 DSP modes	LIVE / MUSIC / SPEECH / MONITOR
Electronic protections	Thermal / overload / digital Limiter/compressor
Connectors	Input: MIC / LINE (Combo) / HI-Z / LINE (Combo) / 3.5 mm STEREO MI NI Output: MIX (XLR)
Power supply	110 V – 240 V (50 Hz / 60 Hz)
Power consumption	800 W
Enclosure construction	Plywood cabinet, black paint, rubber feet, metal handle
Mounting	One standard metal pole mount. 10 x M10 threaded inserts plus integrat ed pull-back cover.
Dimensions (W x H x D)	11.77” (299 mm) x 20.5” (520 mm) x 12.2” (310 mm)
Net weight	15.5 kg (34.2 lb)

Model	**XPRS122**
System type	Multi-purpose, 2-way active loudspeaker with DSP controls
Transducer low	12” woofer, 3” voice coil
Transducer driver	1” exit compression driver, 1.75” voice coil
Frequency response (-6 dB)	48 Hz – 20 kHz
Max SPL	131 dB
Power rating	Class D 2000 W (peak)
4 DSP modes	LIVE / MUSIC / SPEECH / MONITOR
Electronic Protections	Thermal/overload/digital limiter/compressor
Connectors	Input: MIC / LINE (Combo) / HI-Z / LINE (Combo) / 3.5 mm STEREO MINI Output: MIX (XLR)
Power supply	110 V – 240 V (50 Hz / 60 Hz)
Power consumption	800 W
Enclosure construction	Plywood cabinet, black paint, rubber feet, metal handle
Mounting	One standard metal pole mount. 10 x M10 threaded inserts plus integrate d pull-back cover.
Dimensions (W x H x D)	14.28” (362.7 mm) x 25.07” (637 mm) x 13.78” (350 mm)
Net weight	20.2 kg (44.6 lb)

Model	**XPRS1152S**
System type	15” active vented subwoofer
Power rating	Class D 4000 W (peak)
Transducer low	15” ferrite woofer, 3” (76 mm) voice coil with long excursion
Frequency response (-6 dB)	45 Hz – 120 Hz
Max.SPL	129 dB
DSP presets modes	BOOST / EXTENDED LF / NORMAL
Crossover frequency	80 Hz / 100 Hz / 120 Hz low pass filter
Electronic protections	Overheat protection / short circuit protection / digital compressor
Cooling	Temperature-controlled fan
Connectors	Input: Left Mono (Combo) / Right (Combo), Output: Left Mono (XLR) / Rig ht (XLR)
External controls	Volume control/phase switch/switch for EQ mode selector/switch for LPF / power on with green LED/limiter with red LED
Power supply	100 V – 240 V (50 Hz / 60 Hz)
Power consumption	800 W
Enclosure construction	Plywood cabinet, black paint, metal grille with foam, rubber feet, double h andles
Mounting	One standard metal pole mount.
Dimensions (W x H x D)	22.83” (580 mm) x 17.72” (450 mm) x 19.80” (503 mm)
Net weight	26.3 kg (57.9 lb)

Model	**XPRS1182S**
System type	18” active vented subwoofer
Power rating	Class D 4000 W (peak)

Transducer low	18” ferrite woofer, 3” (76 mm) voice coil with long excursion
Frequency response (-6 dB)	40 Hz – 120 Hz
Max.SPL	130 dB
DSP presets modes	BOOST / EXTENDED LF / NORMAL
Crossover frequency	80 Hz / 100 Hz / 120 Hz low pass filter
Electronic protections	Overheat protection / short circuit protection / digital compressor
Cooling	Temperature-controlled fan
Connectors	Input: Left Mono (Combo) / Right (XLR-F), Output: Left Mono / Right (XLR -M)
External controls	Volume control/phase switch/switch for EQ mode selector/switch for LPF / power on with green LED/limiter with red LED
Power supply	100 V – 240 V (50 Hz / 60 Hz)
Power consumption	800 W
Enclosure construction	Plywood cabinet, black paint, metal grille with foam, rubber feet, double h andles
Mounting	One standard metal pole mount.
Dimensions (W x H x D)	26.02” (661 mm) x 21.06” (535 mm) x 21.12” (536.5 mm)
Net weight	32.3 kg (71.2 lb)

The specifications and design of this product are subject to change without notice.

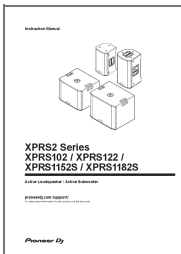
AlphaTheta Corporation
6F, Yokohama i-Mark Place, 4-4-5 Minatomirai, Nishi-ku, Yokohama, Kanagawa 220-0012 JAPAN.

AlphaTheta EMEA Limited
Artemis Building, Odyssey Business Park, West End Road, South Ruislip, Middlesex, HA4 6QE, U.K. TEL: +44-

203-7617-220

AlphaTheta Music Americas, Inc.
2050 W. 190th Street, Suite 109, Torrance, CA 90504, U.S.A. TEL: +1 (424) 488-0480.

Documents / Resources

	Pioneer XPRS102 XPRS Series Active Loudspeaker Active Subwoofer [pdf] Instruction Manual XPRS102 XPRS Series Active Loudspeaker Active Subwoofer, XPRS102 XPRS Series, Active Loudspeaker Active Subwoofer, Active Subwoofer