

ALPINE PXE-X121-12EV 12 Channel High Resolution Audio Processor Amplifier User Manual

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12-Channel High-Resolution Audio
Processor Amplifier



















Alpine Music

https://alpinemusic.cn/appdownload.html

• For iPhone users, please search "Alpine Music" in APP Store to download and install the tuning software; for Android users, please scan the QR code on the right to download and install the software directly.

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Operation Instructions

Types of Precautions

Prohibited	Indicates a prohibited action (must not be performed).
Prohibited	Indicates that disassembly is prohibited.
Mandatory	Indicates a mandatory operation (must be performed).
<u>^</u>	Indicates that it should draw your close attention.





In case of problems, please stop using the device immediately.

Continued use may result in personal injury or damage to the product. Please return the product to t he authorised Alpine dealer or nearby Alpine service center for repair.



The product is only suitable for 12V negative-grounded vehicles.

Use within other types of vehicles may create a fire or electrical hazard.



Please contact a professional for wiring and installation.

This product requires professional expertise to wire and install. Please contact the dealer from who m you bought the product to install it safely.



Please do not disassemble or refit.

Doing so may result in product damage, fire or electrical hazard.



Small items like bolts or screws mustbe kept out of the reach of children.

If ingested, please seek Immediate medical attention to avoid serious injury.



Please do NOT use functions that may distract you while driving.

Any device function that may influence your attention must be used only when the vehicle is stopped completely. To use these functions, make sure to stop your vehicle in a safe area first. Otherwise, it may result in an accident.



While driving, you must maintain the volume at a level that allows outside noise to remain au

It is very dangerous not to hear an emergency vehicle alarm or road warning signal (such as a railw ay crossing) and may result in an accident. Moreover, excessively loud volume may create permane nt hearing damage or hearing loss.





Product maintainance

Please regularly clean the item with a soft, dry cloth. For tough stains, use only water to dampen t he cloth as other solvents may result in dissolution.



Temperature

Before starting the device, please ensure that the temperature inside the vehicle is between +60°C and -20°C.



Repair

In the case of a problem, please do not attempt to repair the product yourself. Please return the pr oduct to the authorised Alpine dealer or Alpine service center.



System matching

When PXE-X121-12EV is used with active division mode to assign signals for speakers, please en sure that the crossover frequency is above 1500 Hz to avoid damage to tweeters.



Installation environment

The device cannot be installed at the following locations:



- Under direct sunlight or near a source of heat.
- With high humidity or near a source of water.
- · Dusty environments.
- Environments with violent vibration.

Copyright Notice

The text mark and logo of Bluetooth® are the registered trademarks held by Bluetooth SIG, Inc. Alpine Electronics has been authorised to use these text marks and logos. Other trademarks and names all belong to their holders. Products bearing the High-Resolution mark meet the standards defined by the Japan Audio Association. Alpine Electronics has obtained authorisation to use the High-Resolution logo from the Japan Audio Association.

* Electronic products should be discarded via an appropriate recycling channel to reduce electronic waste pollution.

Required Tools

Panel removal tool	Socket	Electric drill	Torx screwdriver
Phillips screwdriver	Sleeve wrench	Wrench	Wire cutter
Wire crimper	Wire stripper	Spectrum analyzer	Oscilloscope
		0000	

Accessories

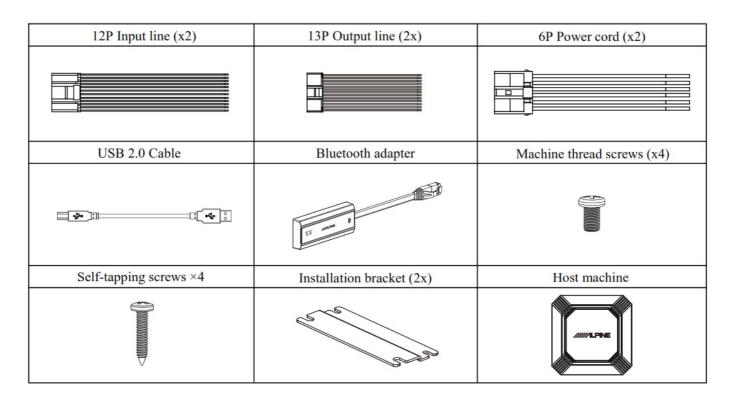
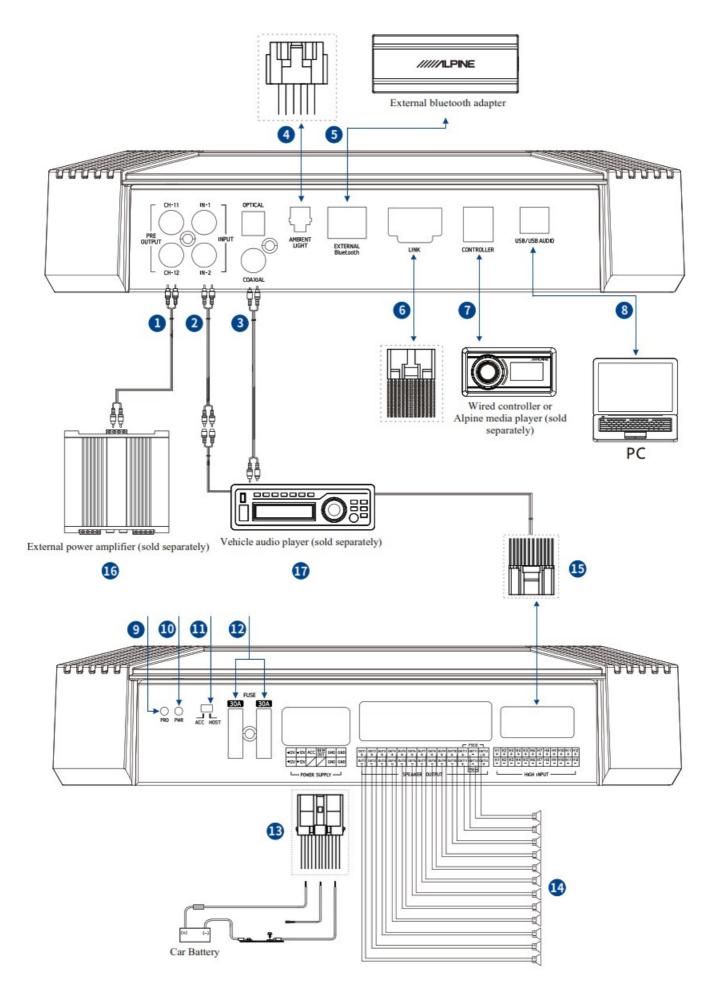
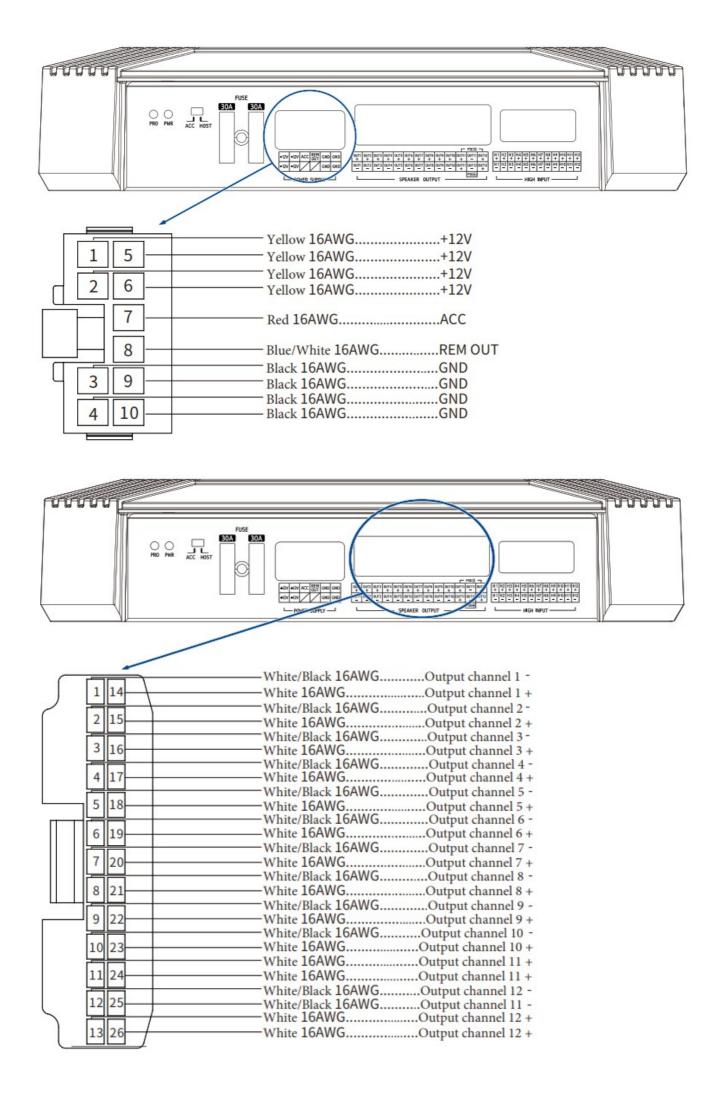


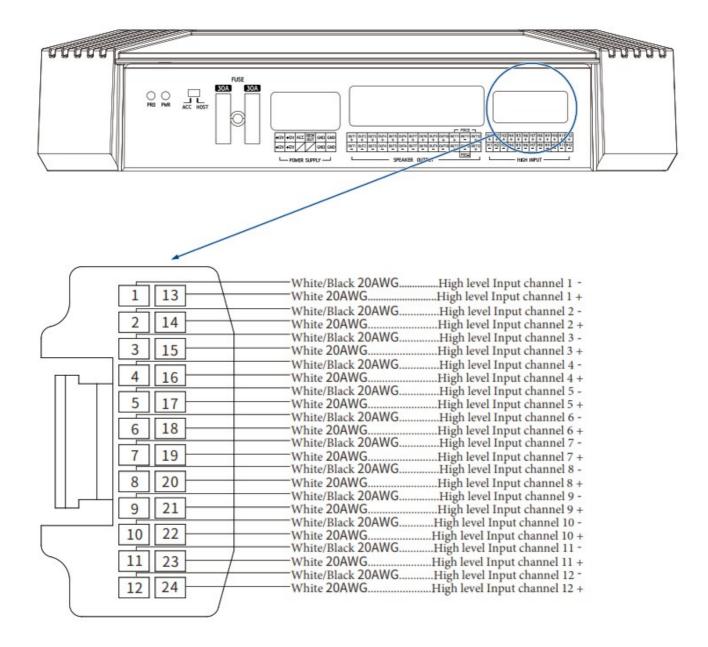
Diagram of Device Interfaces



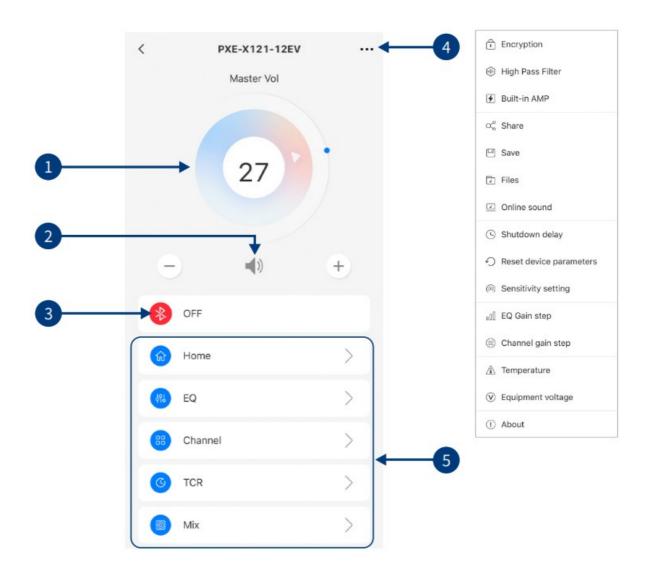
RCA audio input interface put of a car audio signal input, which can be connected to the RCA audio signal put of a car audio player. 3 optical fibre/coaxial input interface put of a car audio player. 4 Ambient light interfac 5 External Bluetooth input interface put of a car audio player to enable HD Bluetooth pairing ith PXE-X121-12EV. After the connection is established, Bluetooth pairing ith PXE-X121-12EV. After the connection is established, Bluetooth is always on. 6 Dual-amp interface push proper amplifiers, expanding to a 24-channel system NI.: a linking of two PXE-X121-12 push push protection indicator light. 7 Wired controller interface protection indicator light. 8 USB/USB audio interface protection indicator light. 10 Power indicator light to Protection indicator light. 11 Input selection switc holds two 30A fuses. 13 Power interface Connect to speakers. 14 High level output Connect to speakers. 15 High level input Connect an external power amplifier.		1	
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input interface ource to the digital signal input, and play optical or coaxial digital signals. Ambient light interface Connect the ambient light interface to control the ambient light options. External Bluetooth i Allows user to install an external Bluetooth adapter to enable HD Bluetooth pairin ith PXE-X121-12EV. After the connection is established, Bluetooth is always on. For DSP system expansion, this product supports the linking of two PXE-X121-12 DSP amplifiers, expanding to a 24-channel system NI.: a linking cable. Wired controller interface For implementation of a wired controller device. USB/USB audio interface Connect a computer via USB 2.0 for detailed tuning and operation settings, or use connect a device for USB Audio playback. Protection indicator light. Power indicator light Input selection switc h Sturned to 'ACC the amplifier is started by ACC, when the switch is turned to 'HOS"1" the amplifier is started by a high level input signal (H1-/H 1+) Fuse socket Holds two 30A fuses. Power interface Connect the car battery. High level output Connect output of your car audio player. External power amplifier Connect an external power amplifier.	2	•	1 set of RCA audio signal input, which can be connected to the RCA audio signal out put of a car audio player.
External Bluetooth i nput interface in control the ambient light options. External Bluetooth i nput interface it has been been been been been been been bee	3		Connect the optical cable or coaxial cable of the car audio player. switch the sound s ource to the digital signal input, and play optical or coaxial digital signals.
hoput interface ith PXE-X121-12EV. After the connection is established, Bluetooth is always on. bual-amp interface Dual-amp interface DSP system expansion, this product supports the linking of two PXE-X121-12 DSP amplifiers, expanding to a 24-channel system NI.: a linking cable. Wired controller interface For implementation of a wired controller device. USB/USB audio interface Connect a computer via USB 2.0 for detailed tuning and operation settings, or use connect a device for USB Audio playback. Protection indicator light. Power indicator light. Power indicator light. When the switch is turned to 'ACC the amplifier is started by ACC, when the switch is turned to 'HOS"1" the amplifier is started by a high level input signal (H1-/H 1+) Fuse socket Holds two 30A fuses. Power interface Connect the car battery. High level output Connect to speakers. High level input Connect output of your car audio player. External power amplifier Connect an external power amplifier.	4	_	Connect the ambient light interface to control the ambient light options.
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Input selection switch when the switch is turned to 'ACC the amplifier is started by ACC, when the switch is turned to 'HOS"1" the amplifier is started by a high level input signal (H1-/H 1+) 12 Fuse socket Holds two 30A fuses. 13 Power interface Connect the car battery. 14 High level output Connect to speakers. 15 High level input Connect output of your car audio player. 16 External power amplifier Connect an external power amplifier.	9		Protection indicator light.
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13 Power interface Connect the car battery. 14 High level output Connect to speakers. 15 High level input Connect output of your car audio player. 16 External power amplifier Connect an external power amplifier.	11	_ ·	When the switch is turned to 'ACC the amplifier is started by ACC, when the switch is turned to 'HOS"1" the amplifier is started by a high level input signal (H1-/H 1+).
14 High level output Connect to speakers. 15 High level input Connect output of your car audio player. 16 External power amplifier Connect an external power amplifier.	12	Fuse socket	Holds two 30A fuses.
15 High level input Connect output of your car audio player. 16 External power amplifier Connect an external power amplifier.	13	Power interface	Connect the car battery.
16 External power amplifier Connect an external power amplifier.	14	High level output	Connect to speakers.
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47 Ossassis also a Ossassis also a	16	•	Connect an external power amplifier.
Gonnect your car audio player.	17	Car audio player	Connect your car audio player.

Arrangement of Wire Pins



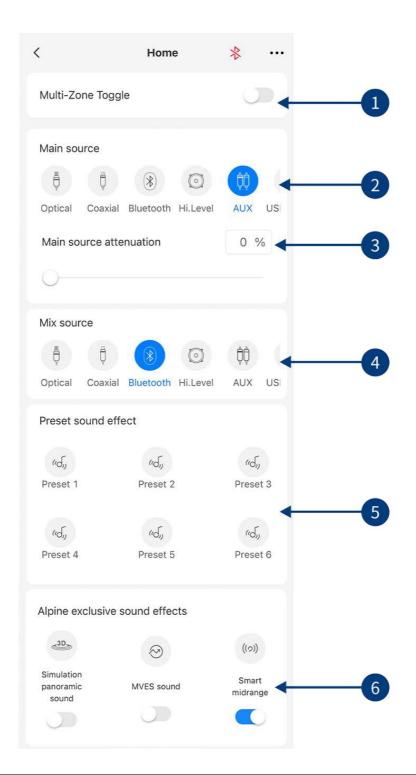


Mobile App Introduction



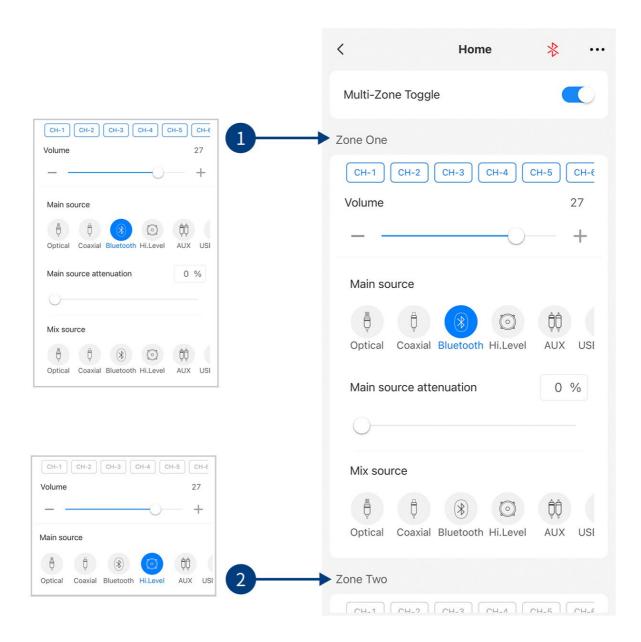
1	Master volume	Rotate the volume fader to adjust system master volume, you can also press "+"or "-".
2	Mute	Mute master volume.
3	Connection indi cator	If the Bluetooth icon is red, this indicates a Bluetooth connection is not established. If the icon is green, your device is connected.
4	Menu bar	Provides access to "Encryption", "High Pass Filter", "Built-in Amp", "Share, Save", "Files", "Online sound", "Shutdown delay", "Reset device parameters", "Sensitivity", "EQ Gain step ", "Channel gain step", "Temperature", "Equipment voltage", and "About".
5	Interface selecti on	Five interface options including "Home", "EQ", "Channel", 'TCR", and "Mix".

Mobile App Introduction – Home Page



1	Multi-Zone switch	Set Multi-Zone on or off (off by default).
2	Main source	Select main audio source (Optical, Coaxial, Bluetooth, High Level, AUX, or USB).
3	Main source attenuat ion	Adjust main source attenuation, the higher the attenuation the lower the main volume. Attenuation range is 0-100%.
4	Mix source	Select mix audio source (Optical, Coaxial, Bluetooth, High Level, AUX, or USB).
5	Preset sound effects	Store and recall six preset sound effects.
6	Alpine exclusive effe cts	Choose from different Alpine exclusive sound effect presets ("Simulated panoramic sound", "MVES sound", and "Smart midrange").

Note: Bluetooth audio sources and USB audio sources are mutually exclusive, and digital signals (Optical and Coaxial) are mutually exclusive and cannot be superimposed.



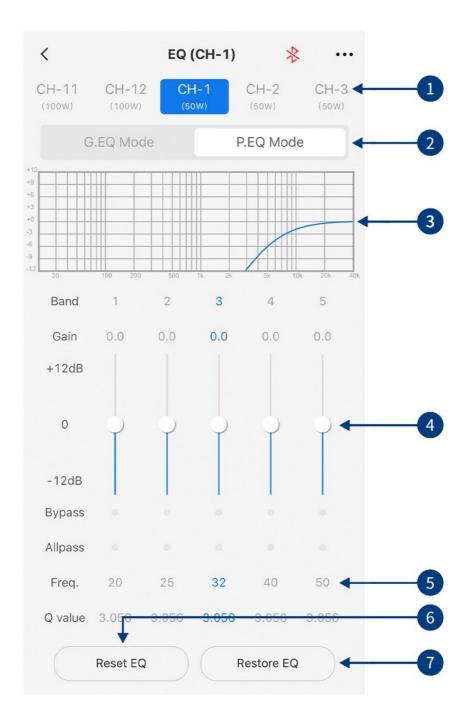
Click the "Multi-Zone Toggle" on the "Home" page interface to open the sound zone setting operation. The front and rear sound sources of Zone One and Zone Two can be matched. For instance, set zone one sound field from CH1-CH6 and select "Hi.Level" as the main source. In zone two, set the rear sound field from CH7-CH12 and select "Optical" as the main source. This means that CH1-CH6 will play high level audio and CH7-CH12 will play through optical input.

1	Sound zone on e	Select channels to be adjusted as "Zone One", also choose main source, mix source, volume and attenuation for "Zone One".
2	Sound zone tw o	Select channels to be adjusted as "Zone Two", also choose main source and volume for "Zone Two".

Note:

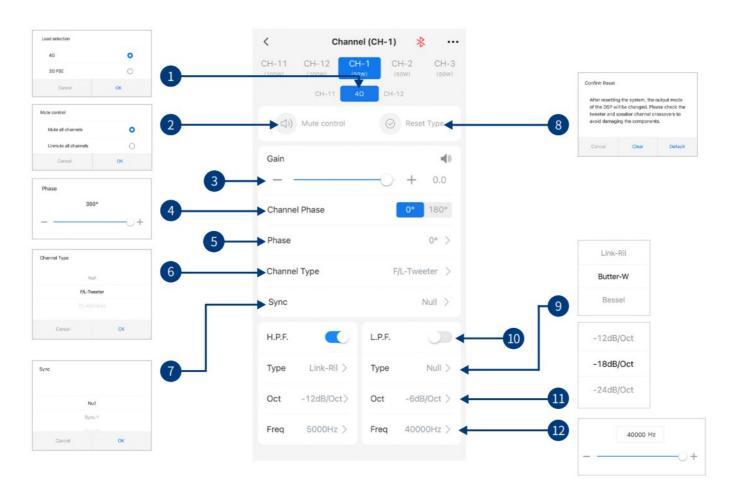
- 1. In "Zone One" the main source and mix source are mutually exclusive if they are the same. The mix source cannot be superimposed with the current input main source volume, otherwise the mix source sound source will be invalid (Optical and Coaxial are mutually exclusive for Digital, Bluetooth, and USB sound sources).
- 2. "Zone One" and "Zone Two" channels are mutually exclusive, meaning if "Zone One" channels are set CH1-

Mobile App Introduction – EQ



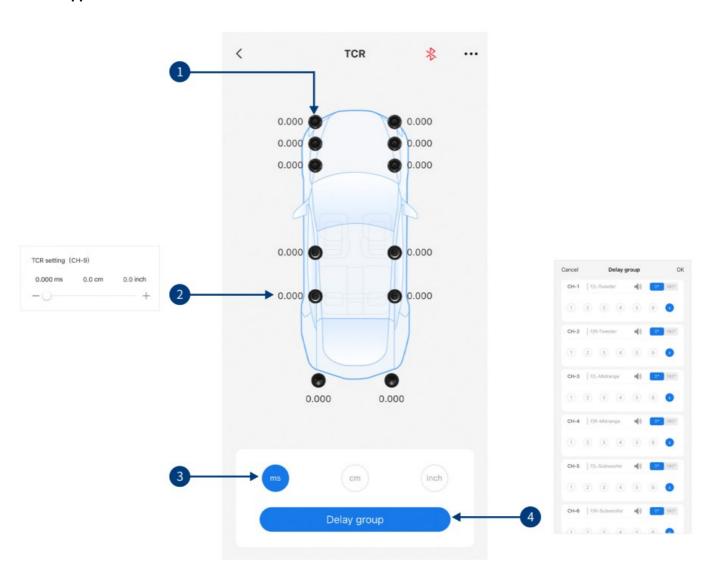
1	Output channel	Select output channel.
2	Parametric EQ, G raphic EQ	Switch between Parametric and Graphic EQ (Switching modes will cause all settings t o reset).
3	EQ curve	Displays the current EQ curve status. set frequency. Q value and gain.
4	gain	Push the slider up and down to adjust gain of i11dividual bands (-12dB -+ 12dB).
5	Allpass, Frequenc y, Q Value, Gain	Frequency, Q Value, and Gain adjustment of the output channel. In the "Allpass" mode, the frequency and Q Value are adjustable. (In "Graphic EQ" mode, Frequency and Q V alue are fixed).
6	Reset EQ	Reset EQ settings to default.
7	Restore EQ	Restore previous EQ settings.

Mobile App Introduction – Channel



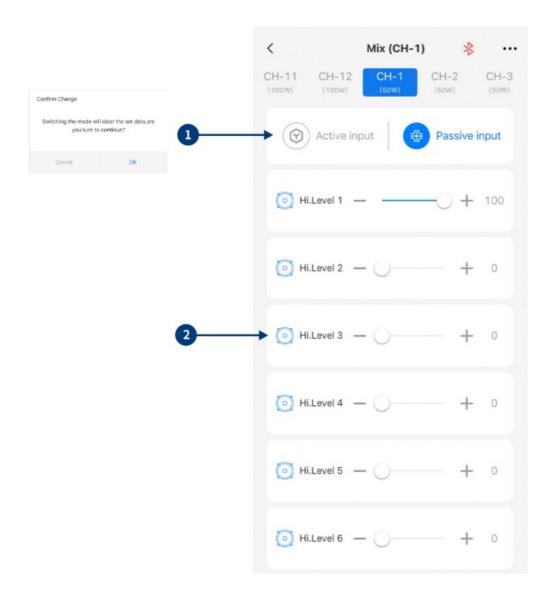
1	Parallel connection	40hm: Supports CHI -CH I2 to connect to 40hm impedance speakers. 20hm: Supports CHI I-CH12 to connect to 20hm impedance speakers.
2	Silent control	Mute or unmute all channels.
3	Channel colume	Slide fader to adjust channel volume (-60dB -+6dB), click the speaker button to mut e.
4	Channel phase	Select channel phase.
5	Bass phase	Adjust channel bass phase (0-360°).
6	Channel type	Select output channel type from drop-down menu.
7	Sync	Choose sync setting (from I-6).
8	Reset type	Reset current channel type to factory state.
9	Filter type	Select filter type (Link-RH, Butter-W, or Bessel).
10	Crossover	Turn high/low pass filter on or off.
11	Divider slope	Select the crossover slope (-6dB/Oct, -l2dB/Oct, -l8dB/Oct, -24dB/Oct, -30dB/Oct, -36dB/Oct, -42dB/Oct, or -48dB/Oct).
12	Divider freqency	Select crossover frequency (20Hz-40kHz).

Mobile App Introduction – TCR



1	Speaker	Select speaker to adjust, click the speaker icon to mute/ unm ute.
2	Delay setting	Select the corresponding speaker, push the fader to the left or right in the pop-up w indow to adjust the delay, or click "+" and "-".
3	Delay units	Chose delay units from milliseconds, centimeters, and inches. Adjustment range is 0.000-20,000 milliseconds, 0-692cm, or 0-273 inches.
4	Delay group	Each channel has six delay groups to chose from, channel mute and phase adjust ment can also be set.

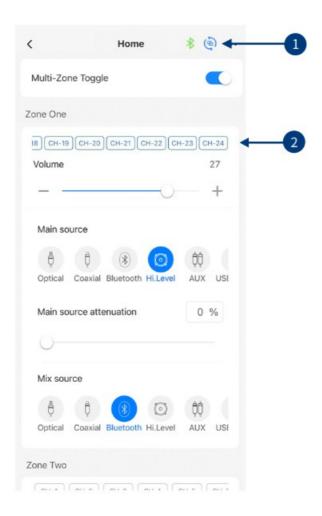
Mobile App Introduction – Mix



1	Active/ Passive input	Select "Passive" or Active" input. (Default is "Passive"). However, if changed you r mixer settings will be lost for that channel.	
2	Input channel	Push the fader left/ right or +"/"-" to adjust the audio volume of each individual ch annel.	

Note: It is strongly recommended that the volume level across all channels equals 100 to prevent clipping.

Mobile App Introduction – Home Page (MultiZone) (Dual Amp)

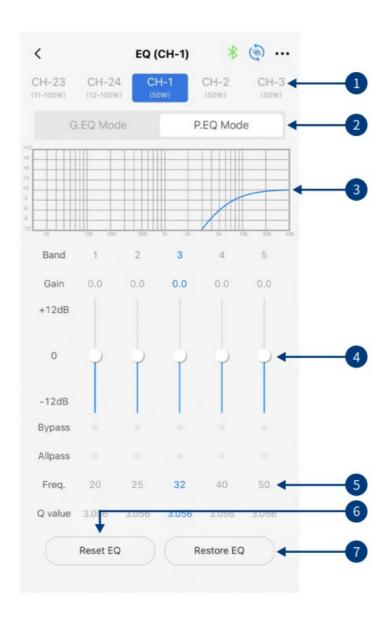


1	Cascade	Use the provided linking cable to connect the two PXE-X121-12EV devices. The DSP at the front end of the connection acts as the host, the software will automatically identify th is and display the blue "cascade" icon.
2	Output channel	Swipe left and right to select output channels that you would like to adjust. "Zone 1" and "Zone 2" should now each display CH1-CH24.

Note:

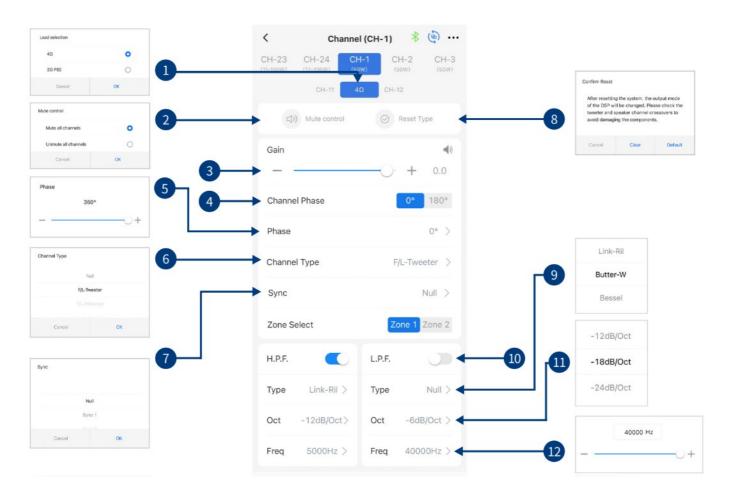
- 1. After linking, the two machines share Optical, Coaxial, Bluetooth, High-Level, AUX and USB audio sources. Settings applied will by synchronized, so there is no need to add an external audio source as the high level should be expanded to 24 channels.
- 2. If the two devices become disconnected, the software will automatically restore default settings.

Mobile App Introduction – EQ (Dual Amp)

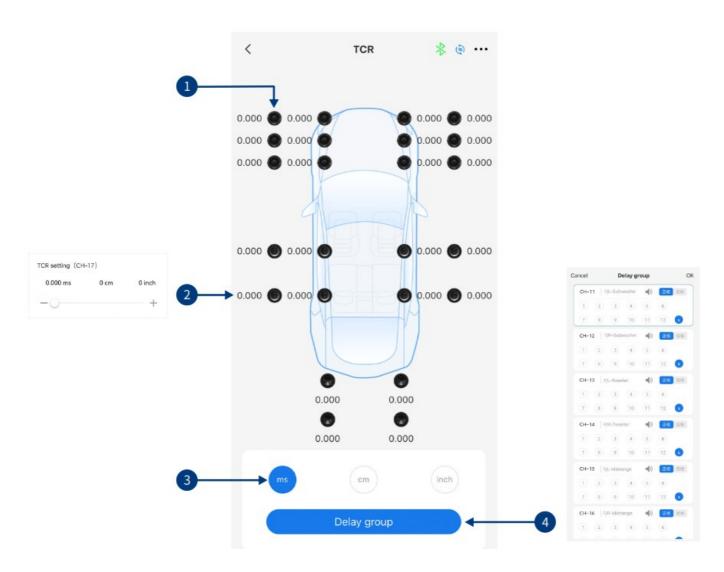


1	Output channel	Select output channel.
2	Parametric EQ, G raphic EQ	Switch between Parametric and Graphic EQ (Switching modes will cause all settings t o reset).
3	EQ curve	Displays the current EQ curve status, set frequency, Q value and gain.
4	Gain	Push the slider up and down to adjust gain of individual bands (-12dB ~ +12dB).
5	Allpass, Frequenc y, Q Value, Gain	Frequency ,Q Value, and Gain adjustment of the output channel. In the "All pass" mode , the frequency and Q Value are adjustable.(In "Graphic EQ" mode, Frequency and Q Value are ftxed).
6	Reset EQ	Reset EQ settings to default.
7	Restore EQ	Restore previous EQ settings.

Mobile App Introduction – Channel (Dual Amp)

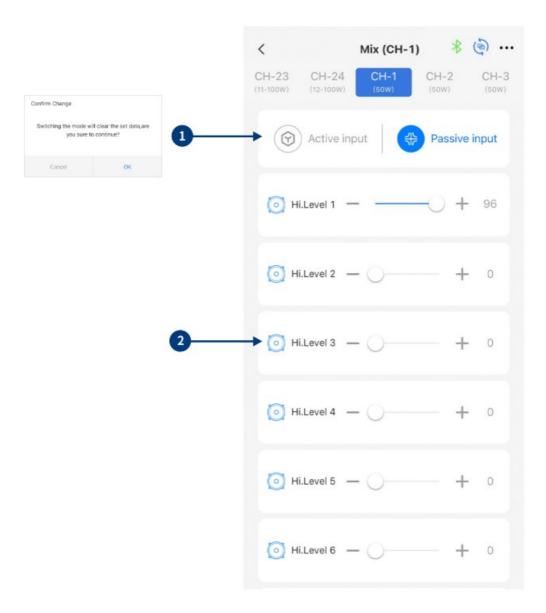


1	Parallel con nec tion	40:Supports CH I-CH24 to connect to 40 impedance speakers. 20:Supports CH 11-CH I2/CH23-CH24 to connect to 20 impedance speakers.
2	Silent control	M ute or unmute all channels.
3	Channel volume	Slide fader to adjust channel volume (-60dB -+6dB), click the speaker button to mute.
4	Channel phase	Select chan nel phase.
5	Bass phase	Adjust channel bass phase (0-3600).
6	Channel type	Select output channel type from drop-down men u.
7	Sync	Choose sync setting (from 1-6).
8	Reset type	Reset current chan nel type to factory state.
9	Filter type	Select filter type (Link-Ril, Butter-W, or Bessel).
10	Crossover	Turn high/low pass filter on or off.
11	Divider slope	Select the crossover slope (-6dB/Oct, - I2dB/Oct, -18dB/Oct, -24dB/Oct, -30dB/Oct, -36d B/Oct, -42dB/Oct, or -48dB/Oct).
12	Divider frequency	Select crossover frequency (20Hz-40kHz).



1	Speaker	Select speaker to adjust, click the speaker icon to mute/ unmute.
2	Delay setting	Select the corresponding speaker, push the fader to the left or right in the pop-up w indow to adjust the delay, or click "+" and "-".
3	Delay units	Chose delay units from milliseconds, centimeters, and inches. Adjustment range is 0.000-20,000 milliseconds, 0-692cm, or 0-273 inches.
4	Delay group	Each channel has six delay groups to chose from, channel mute and phase adjust ment can also be set.

Mobile App Introduction – Mix (Dual Amp)



1	Active/ Passive	Select "Passive" or "Active" input. (Default is "Passive"). However, if changed your mixer settings will be lost for that channel.
2	input	Push the fader left/ right or "+"/"-" to adjust the audio volume of each individual channel.

Note: It is strongly recommended that the volume level across all channels equal 100 to prevent clipping.

PC Software Introduction – Home Page



1	Temperature display	Detect the tem prelature on the device surface.
2	File	Load or save scene files on PC, load or save all scene files.
3	Option	Firmware update, noise gate, restore factory settings, shutdown delay, switch b etween English and Chinese, check the version numnber.
4	Encryption	Enter a 6-digit encryption password to encrypt the tuned sound effect data.
5	Mute button	Mute the master volute.
6	Master volume	Push the fader left and right to adjust the master volume in the range of 0-35.
7	Voltage display	Check the system operating voltage.
8	Clipping distortion indic ator	When the clipping distortion indicator turns yellow, it is a warning for the user to adjust their sound tuning settings to make a more balanced signal that is distort ion free.
9	Main source attenuation	The greater the attenuation of the main sound source, the quieter the main volu me. The adjustment range is 0-100%.
10	Alpine exclusive sound effects	Select from Alpine's exclusive sound effects (simulated panoramic sound, MVE S sound, smart midrange).
11	Preset sound effects	Supports saving or recalling of multiple sets of effects and online sound effects.
12	Mix source selection	Set the mix audio source (Optical, Coaxial, Bluetooth, High Level, Low Level, USB, off).
13	Main source selection	Select main audio source (Optical, Coaxial, Bluetooth, High Level, Low Level, USB).
14	Connection indicator	Indicates connection to PXE-XI21-12EV, connect the computer via USB cable, then open the software to connect, click again to close the connection.



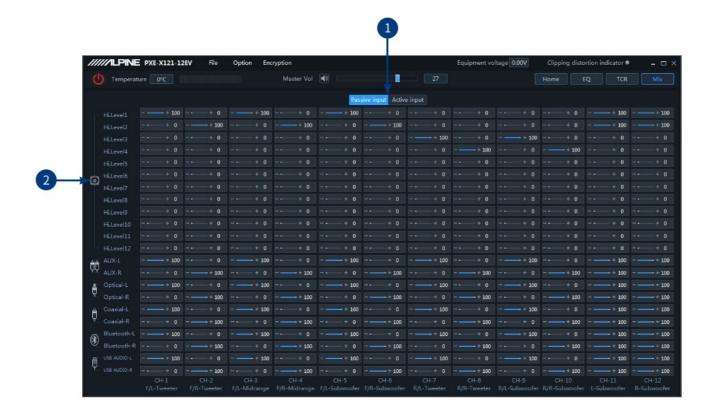
1	EQ gain step size	Step size can be chosen from the range: 0.1dB ~ 0.5dB ~ 1.0dB.
2	Output channel display	Display the output channel curve.
3	EQ curve	Display the current EQ curve status, set the frequency, Q value and gain.
4	All pass, Frequency, Q Value, Gain	Frequency, Q Value, and Gain adjustment of the output channel. In the "All pass" mode, the frequency and Q Value are adjustable, whereas in "Graphic EQ" mode Frequency and Q Value are fixed.
5	Parametric EQ, Graphic EQ	Switch between Parametric and Graphic EQ (Switching modes will cause all se ttings to reset).
6	Low- pass filter	Turn the Low-Pass filter on/off to reduce high frequencies. Select filter type (Lin k-Ril, Butter-W or Bessel). Select the crossover frequency (between 20Hz and 40kHz). Select the crossover slope (-6dB/Oct, -12dB/Oct, -18dB/Oct, -24dB/Oct, -30dB/Oct, -36dB/Oct, -42dB/Oct, or -48dB/Oct).
7	High-pass filter	Turn the High-Pass filter on/off to reduce low frequencies. Select filter type (Lin k-Ril, Butter-W or Bessel). Select the crossover frequency (between 20Hz and 40kHz). Select the crossover slope (-6dB/Oct, -12dB/Oct, -18dB/Oct, -24dB/Oct, -30dB/Oct, -36dB/Oct, -42dB/Oct, or -48dB/Oct).
8	Channel phase	Select channel phase (normal or negative)
9	Bass phase	Output channel bass phase adjustment (0-360°)
10	Channel gain	Slide the fader or click "+" and "-" to adjust channel volume (-60dB ~ +6dB).
11	Reset channel type	Reset current channel type to factory state.
12	Mute	Mute or unmute all channels with one click.
13	Parallel connection	4Ω : Supports CH1-CH12 to connect to 4Ω impedance speakers. 2Ω : Supports CH11-CH12 to connect to 2Ω impedance speakers in parallel mode.
14	Reset EQ	Reset EQ settings.
15	Restore EQ	Restore previous EQ data.
16	Sync	Choose sync setting (from 1-6).
17	Output channel	There are 12 output channels available, configure the output type and click the speaker button to mute.

PC Software Introduction – TCR



1	Delay	Select a speaker and slide the fader or enter a numerical value to adjust delay.
2	Delay unit	Chose delay units from milliseconds, centimeters, and inches. Adjustment rang e is 0.000~20,000 milliseconds, 0~692cm, or 0~273 inches.
3	Speaker / phase	Select the speaker of the corresponding channel, click the speaker button to m ute, click again to unmute and also adjust phase.
4	Delay group	Pick a delay group for a channel (-6).

PC Software Introduction – Mix



1	Active/ Passive input	Select "Passive" or "Active" input. (Default is "Passive"). However, if changed y our mixer settings will be lost for that channel.
2	Delay unit	Push the fader left/ right or "+"/"-" to adjust the audio volume of each individual channel.

Note: It is strongly recommended that the volume level across all channels equal 100 to prevent clipping.

PC Software Introduction – Home Page (Multi-Zone)



The sound switch setting is turned on, and the sound zone interface is as shown in the picture above.

1	Multi-Zone switch	Turn on the sound zone switch setting to set the sound zone.
2	Home page	The sound sources in the front and rear sound fields of zone one and zone two on the home page interface can be flexibly matched independently. For exampl e, in zone one, set the front sound field CH1-CH6 and select "High level" for the main source. In zone two, set the rear sound field CH7-CH12, and select "Opti cal" as the main source.
3	Sound zone one	Select channels to be adjusted as "Zone One", also choose main source, mix s ource, volume and attenuation for "Zone One".
4	Sound zone two	Select channels to be adjusted as "Zone Two", also choose main source and vo lume for "Zone Two".

Note:

1. In "Zone One" the main source and mix source are mutually exclusive if they are the same. The mix source cannot be superimposed with the current input main source volume, otherwise the mix source sound source will be invalid (Optical and Coaxial are mutually exclusive for Digital, Bluetooth, and USB sound sources).

2. "Zone One" and "Zone Two" channels are mutually exclusive, meaning if "Zone One" channels are set CH1-CH6 the "Zone Two" CH1-CH6 are invalid.

PC Software Introduction – Home Page (Multi-Zone) (Dual Amp)



1	Temperature display	Detect the temperature on the device surface.
2	File	Load or save scene files on PC, load or save all scene files.
3	Option	Firmware update, noise gate, restore factory settings, shutdown delay, switch b etween English and Chinese, check the version numnber.
4	Encryption	Enter a 6-digit encryption password to encrypt the tuned sound effect data.
5	Mute button	Mute the master volume.
6	Master volume	Push the fader left and right to adjust the master volume in the range of 0-35.
7	Cascade	Use the provided linking cable to connect the two PXE-XI 2 I-I2EV devices. The DSP at the main end of the connection acts as the host, the software will automatically identify this and display the blue "cascade" icon.
8	Voltage display	Check the system operating voltage.
9	Clipping distortion indic ator	When the clipping distortion indicator turns yellow, it is a warning for the user to adjust their sound tuning settings to make a more balanced signal that is distort ion free.
10	Main source attenuation	The greater the attenuation of the main sound source, the quieter the main volu me (0- 100%).
11	Alpine exclusive sound effects	Select from Alpine's exclusive sound effects (simulated panoramic sound, MVE S sound, smart midrange).
12	Preset sound effects	Supports saving or recalling of multiple sets of effects and online sound effects.
13	Mix source selection	Set the mix audio source (Optical, Coaxial, Bluetooth, High Level, Low Level, USB, off).
14	Main source selection	Select ma in audio source (Optical, Coaxial, Bluetooth, High Level, Low Level, USB).
15	Connection indicator	Indicates connection to PXE-XI21-12EV, connect the computer via USB cable, t hen open the software to connect, click again to close the connection.

PC Software Introduction – EQ (Dual Amp)

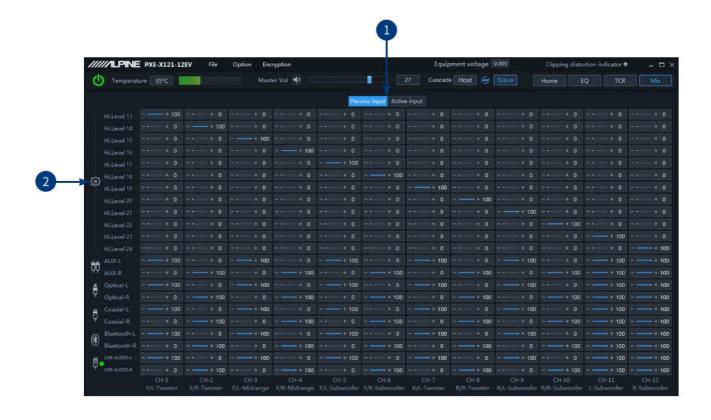
1	EQ gain step size	Step size can be chosen from the range: 0.1dB ~ 0.5dB ~ 1.0dB.
2	Output channel display	Display the output channel curve.
3	EQ curve	Display the current EQ curve status, set the frequency, Q value and gain.
4	Allpass, Frequency, Q Value, Gain	Frequency, Q Value, and Gain adjustment of the output channel. In the "Allpa ss" 1node1the frequency and Q Value are adjustable, \\1hereas in "Graphic E Q" n1ode Frequency and Q Value are fixed.
5	Parametric EQ, Graphic E Q	Switch between Parametric and Graphic EQ (Switching modes will cause all s ettings to reset).
6	Low-pass filter	Turn the Low-Pass filter on/off to reduce high frequencies. Select filter type (Link-Ril, Butter-W or Bessel). Select the crossover frequency (between 20Hz and 40kHz). Select the crossover slope (-6dB/Oct, -12dB/Oct, -18dB/Oct, -24dB/Oct, -30dB/Oct, -36dB/Oct, -42dB/Oct, or -48dB/Oct).
7	High-pass filter	Turn the High-Pass filter on/off to reduce low frequencies. Select filter type (Link-RH, Butter-W or Bessel). Select the crossover frequency (between 20Hz and 40kHz). Select the crossover slope (-6dB/Oct, -J 2dB/Oct, - 18dB/Oct, -24dB/Oct, -30dB/Oct, -36dB/Oct, -42dB/Oct, or -48dB/Oct).
8	Channel Phase	Select channel phase (normal or negative)
9	Bass phase	Output channel bass phase adjustment (0-3600)
10	Channel gain	Slide the fader or click "+" and "-" to adjust channel volume (-60dB ~ +6dB).
11	Reset channel type	Reset current channel type to factory state.
12	Mute	Mute or unmute all channels with one click.
13	Parallel connection	4Ω : Supports CH1-CH12 to connect to 4Ω impedance speakers. 2Ω : Supports CH11-CH12 to connect to 2Ω impedance speakers in paralle I mode.
14	Reset EQ	Reset EQ settings.
15	Restore EQ	Restore previous EQ data.
16	Sync	Choose sync setting (from 1-6).
17	Output channel	There are 12 output channels available, configure the output type and click the speaker button to mute.

PC Software Introduction – TCR (Dual Amp)



1	Delay	Select a speaker and slide the fader or enter a numerical value to adjust delay .
2	Delay unit	Chose delay units from milliseconds, centimeters, and inches. Adjustment ran ge is 0.000~20,000 milliseconds, 0~692cm, or 0~273 inches.
3	Speaker / Phase	Select the speaker of the corresponding channel, click the speaker button to mute, click again to unmute and also adjust phase.
4	Delay group	Pick a delay group for a channel (1-6).

PC Software Introduction – Mix (Dual Amp)

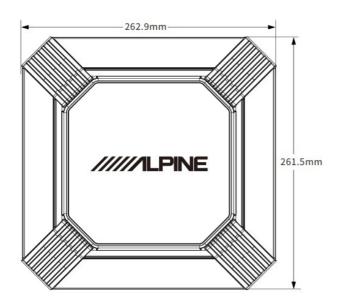


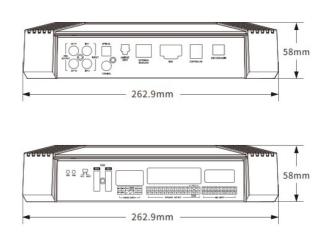
1	Active/ Passive input	Select "Passive" or "Active" input. (Default is "Passive"). However, if changed your mixer settings will be lost for that channel.
2	Input channel	Push the fader left/right or use "+"/"-" to adjust the audio volume of each individual channel.

Note: It is strongly recommended that the volume level across all channels equal 100 to prevent clipping.

Specifications

Dynamic range	1.100dB
Signal-to-noise ratio (RCA)	101clB
Noise floor	High level CH1—CH6: 95uVrms, CH7-CH10: 48uVrms, CH 11-CH12: 135u Vrms: RCA: 5.8uVrms
Channel separation	>80dB
Total harmonic distortion	().0196
Input voltage	High level: 30Vpp: RCA: 6.5Vpp
Output voltage	High level: CH1—CH6: 40Vpp, CH7—CHIO: 28Vpp, CH 11—CH12: S8Vpp : RCA: 6.5Vpp
Rated Power	CH1—CH6: 50W, CH7—CHIO: 25W, CH 11—CH12: 100W (411, 14.4V, 1kHz, 10%THD) Connection CH11—CH12: 1CHx200W(2Q, 14.4V, 1kHz, 10%THD)
Maximum power	CHI—CH6: 100W, CH7—CH10: 50W, CH 11—CH12: 200W (452, 14.4V, 1kHz, 10%THD) Connection CH11—CH12: 1CHx400W (IQ, 14.4V, 1kHz, 10%THD)
Input/Output sensitivity (RCA)	1:1 (without power amplification)
Frequency response	20Hz-40kHz
System sampling rate	48kHz/24bit
input resistance	High level: 180: RCA: 15kfl
Output resistance	5111
Operating voltage	9-17V
Quiescent current	.3mA (while off)
Standby power consumption	.A.1W
REM start input	High level (HI-/H1+), ACC optional
REM start output	12V (0.2A)
Boot time	IOs
Use ambient temperature	-20-70°C
Storage temperature	-40-85°C
Net weight	47 kg
Dimensions	262.9mmx261.5mmx58mm





Input signals	12-channel high-level, 2 channel RCA audio, HD Bluetooth, optical/coaxial, USB
Output signals	10-channel high level, 2-channel RCA audio
Signal gain of output channel	Range: Silent, -60dB—+6dB
Output signal equalizer	Type: Parametric equalization, Graphic equalization Frequency: 20Hz-40k Hz, resolution 1Hz Q value (slope or gradient): 0.404-28.852 Gain: -12.0dB—+12.0dB, resolution 0.1dB-0.5dB-1.0dB
Output signal frequency divider	Each output channel is equipped with multi-order high and low pass filters. Filter type: Link-Ril, Butter-W, Bessel Crossover point 20Hz-40kHz, resolution 1Hz filter slope (slope): -6dB/Oct-48dB/Oct
Output phase	Normal phase or reverse phase (0-360°)
Output delay	0.000-20.000ms, 0-692cm, 0-273 inch
Preset sound effects	This machine can save data from multiple sets of preset sound effects and supports online sound effects.



Documents / Resources



ALPINE PXE-X121-12EV 12 Channel High Resolution Audio Processor Amplifier [pdf] User

Manua

PXE-X121-12EV 12 Channel High Resolution Audio Processor Amplifier, PXE-X121-12EV, 12 C hannel High Resolution Audio Processor Amplifier, Resolution Audio Processor Amplifier, Audio Processor Amplifier, Processor Amplifier

References

• User Manual

Manuals+, Privacy Policy

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