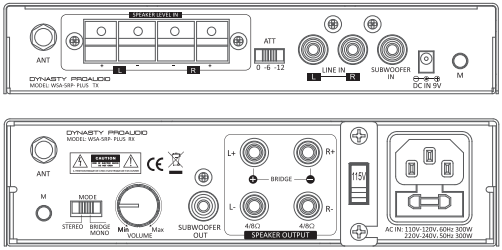
DYNASTY PROAUDIO
WSA-5RP-PLUS / WSA-5RP-PLUS-RX

5.2G/5.8G WIRELESS SURROUND SOUND REAR SPEAKER KIT / 2 x 100W AMPLIFIER BUILT-IN



Tired of running cables around doors or hiding under carpet to connect your rear surround speakers and subwoofer to the receiver? Or having limited options on rear surround speakers and subwoofer placement due to cable length and component location? The WSA-5RP-PLUS providing premium-quality audio for stereo audio applications operating in the 5.2G/5.8GHz bands with 2 x 100 W low-hear class D amplifier built-in. Simply connect the transmitter module to you're A/V processor and the receiver to your passive bookshelf / rear surround sound speakers and powered/active subwoofer

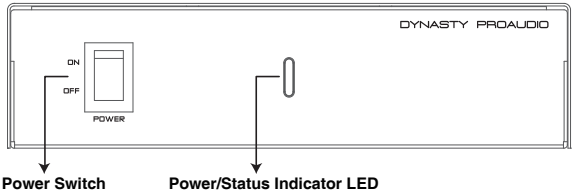
Features:

* Lossless Audio - 5.2 & 5.8GHz selectable digital wireless with an advanced channel selection for near lossless audio, provides excellent transmission stability
* Wide Range - Up to 100 ft (30M) operational distance between transmitter and receiver (line of sight)
* High Performance - 24-bit 48KHz full CD quality high resolution/uncompressed audio
* Works with any AV receiver or power amplifier - Speaker Line Level Input & Stereo RCA Input
* High efficiency 2 x 100W RMS class D amplifier built-in to connects directly to any passive bookshelf or the rear surround sound loudspeakers
*An additional subwoofer mono input and output for connecting between AV Receiver and Power/Active Subwoofer Speaker or Subwoofer Amplifier

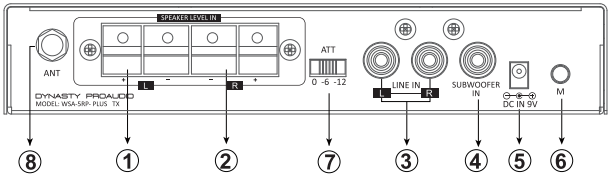
Package Contents:

1. Transmitter
2. Receiver (built-in amplifier)
3. 9V AC Adapter (for transmitter)
4. Power Cord (for receiver)
5. 6-foot Speaker Wires (2)
6. Owner's Manual

WSA-5RP-PLUS Wireless Transmitter (Front View)

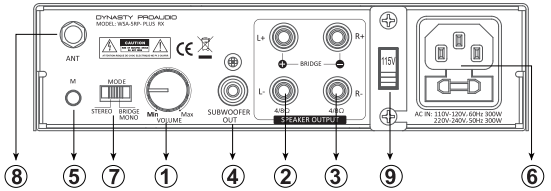


WSA-5RP-PLUS Wireless Transmitter (Back View)



1. Left Speaker Level Audio Input Terminals
2. Right Speaker Level Audio Input Terminals
3. Line-In Level Audio Input
4. Subwoofer Signal Audio Input
5. DC-IN Jack (9V)
6. M Paring Button
7. Output Gain Switches
8. Wireless Antenna

WSA-5RP-PLUS Wireless Receiver (Back View)



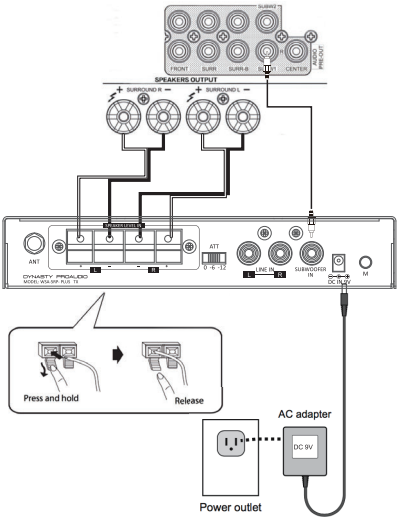
1. Volume Control Knob
2. Left Speaker Output Terminal
3. Right Speaker Output Terminal
4. Subwoofer Signal Output
5. M Paring Button
6. IEC Power Receptacle & AC Fuse/Holder
7. Stereo / Bridge Mode Selection
8. Wireless Antenna
9. Multi Voltage Selector Switch 115V (or 230V)

Install the WSA-5RP-PLUS Wireless Transmitter

(The WSA-5RP-PLUS wireless transmitter can be connected via SPEAKER-LEVEL-IN or LINE-IN Audio with your AV Receiver / Amplifier, when the RCA cables are connected, audio input from the speaker terminal will be mixed, make sure your home theater AV receiver /ampli er is power on while connecting the speaker kit.

Application A. Connect the transmitter via SPEAKER LEVEL IN:

1. Using the included 6-foot speaker wire, connect the right rear speaker terminals of your home theater receiver to the right speaker terminals of the wireless transmitter by connecting the red wire to the red (+) terminals, and the black wire to the black (-) terminals.
2. Connect the left rear speaker terminals of the home theater receiver the same way.
3. Connect the supplied AC adaptor (9V, 200MA) to DC IN 9V jack, then plug it into a standard household outlet (Caution: To avoid risk of fire, and to prevent damage, only use the supplied power adapters)
4. (Optional Connection) connect the Subwoofer Output (or LFE) from your AV receiver / amplifier to the WSA-5RP-PLUS transmitter Subwoofer Input



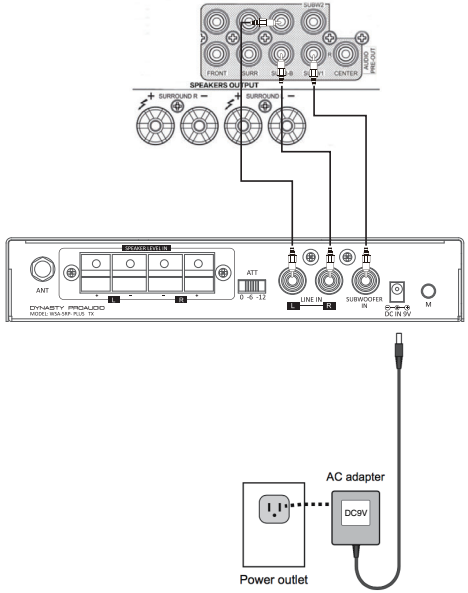
Install the WSA-5RP-PLUS Wireless Transmitter (Option 2)

Application 2. Connect the transmitter via LINE IN:

1. Connect your WSA-5RP-PLUS wireless transmitter to the amplifier's RCA output ports with RCA cables

2. Connect the supplied power cord, then plug it into a standard household outlet (Caution: To avoid risk of fire, and to prevent damage, only use the supplied power adapters)

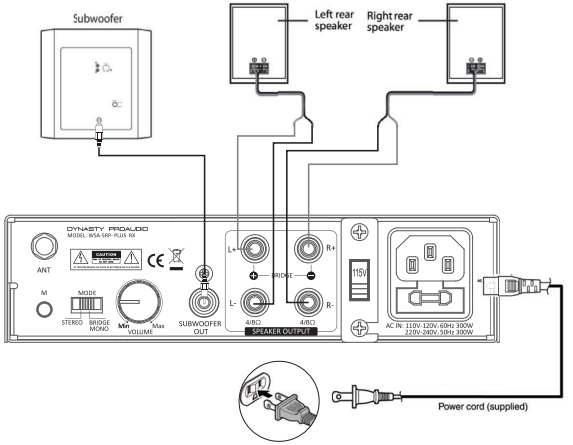
3. (Optional Connection) connect the Subwoofer Output (or LFE) from your AV receiver / amplifier to the WSA-5RP-PLUS wireless transmitter Subwoofer Input



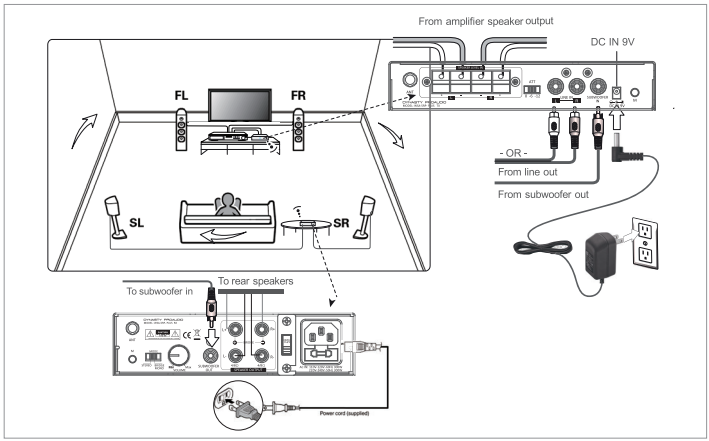
Install the WSA-5RP-PLUS Wireless Receiver

1. Connect the right speaker to the right speaker terminals of the WSA-5RP-PLUS wireless receiver, and the left speaker to the left speaker terminals.
2. If the speaker wires are attached to the speakers already, connect the positive (+) wire from the right speaker to the red (+) terminal for the right speaker on the WSA-5RP-PLUS wireless receiver and the negative (-) wire from the right speaker to the black (-) terminal for the right speaker on the WSA-5RP-PLUS wireless receiver
3. Connect the left speaker the same way *Make sure the exposed tips of the speaker wires don't touch each other, and make sure they are fully inserted into the terminals
4. (Option) Place the active/powered subwoofer speaker at its intended location (refer to your subwoofer owner's manual), and using the mono RCA cable to connect the WSA-5RP-PLUS wireless receiver's subwoofer output to your subwoofer audio input.
5. Connect the AC power input of the WSA-5RP-PLUS wireless receiver with the supplied power cord then plug it into a standard household outlet

*(**ATTENTION:**Connect the amplifier receiver to the power cord **BEFORE** connecting the power cord to the power outlet to avoid sparks due to rush-in current)*



For best reception performance, we recommend that the WSA-5RP-PLUS wireless transmitter and receiver must be placed within 100 feet line of sight for proper operation. If no line of sight is possible, place the transmitter and receiver such that there is the minimum possible number of walls and obstacles between the transmitter and receiver.



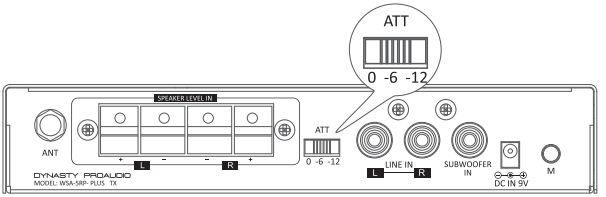
We suggest that you place the WSA-5RP-PLUS wireless transmitter on top (or beside) of your audio source (AV receiver / amplifier), If no line of sight is possible, place the WSA-5RP-PLUS wireless transmitter and receiver such that there is the minimum possible number of walls and obstacles between the transmitter and receiver.
You can mount the WSA-5RP-PLUS wireless receiver vertically by using the 2 screw openings at the bottom. If the receiver is mounted vertically, the operating range is reduced compared to mounting the receiver right side up.
We suggest that you experiment with placement in order to find the best location for the WSA-5RP-PLUS wireless transmitter and receiver
Note: This product will not work properly from within an enclosed metal cabinet.

Operating the WSA-5RP-PLUS wireless speaker kit system

1. Once the wire connection has been done on both WSA-5RP-PLUS wireless transmitter & receiver as page 3-5 , and the AC adapters are connected. Turn on the power switch on the front panel, the LEDs light BLUE (as 5.8GHz mode with factory default setting) on both transmitter and receiver are paired and enters standby mode.
2. Turn on your AV receiver / amplifier and then play the audio or video source through your amplifier
3. The volume control on the WSA-5RP-PLUS wireless receiver is only used to adjust the balance of the volume between the front and rear surround speakers. After the system is set up, we recommend that you adjust the best volume to match the balance with your center and front left/right speakers in the first time installation (after balance setup, simply use the volume control on your AV receiver / amplifier to adjust the master speaker volume during the playback)
4. Adjusting Transmitter Gain The gain switched can be adjusted that depends on which audio input connection you selected (Speaker Level In or RCA Line In), audio sources (movie, music, gaming), or if you would like to do the easy adjust the sound output balance between the front speakers and rear surround speakers.

   Even the WSA-5RP-PLUS wireless receiver has the output level control, but this control only affects the wireless receiver's built-in amplifier output, it has no effect on improper gain adjustment in the transmitter. If distortion or poor signal-to-noise is occurring in the transmitter from the original sound signal thru the AV receiver, then the audio output level can be easy adjusted via the Gain Switches on the WSA-5RP-PLUS wireless transmitter from 0dB, -6dB and -12dB, without re-programe the sound level controls thru the AV receiver.

   For example, when the volume controls and playback loudness for your surround sound speakers has been set on the AV Receiver menu and the Gain switches is at "-6dB" position on the WSA-5RP-PLUS wireless transmitter. Once you switch to 0dB position, the rear surround sound speaker playback volume will be slightly louder. On the contrary, the rear surround sound speaker's volume will be decreased once it set to "-12dB" position.



** Set the WSA-5RP-PLUS wireless receiver s volume control to a low level to prevent clipping inside the amplier*

** Set your audio source to output the maximum audio level that you will encounter during normal operation such that both the left and right channel are balanced.*

** If you are using the 5.1/7.1 AV receiver with WSA-5RP-PLUS wireless speaker kit, please make sure to set* **"MULTI ST "** *mode on your AV receiver to turn on the rear surround speaker output (there will be no sound if you select the 2CH STEREO or DIRECT mode)*

Pairing the WSA-5RP-PLUS transmitter and wireless amplifier receiver

The WSA-5RP-PLUS wireless Transmitter and Receiver are automatically paired and synced at the factory, both LEDs should be solid Blue in 5.8G mode as default when powered on.

We use the latest 5.8G wireless technology connection with 62 channels auto selection from RF channel 5727-5848, which are not easily disturbed by 2.4G (the frequency band of bluetooth and WIFI) and have excellent transmission stability, also avoids and decrease possibility of interference from the wireless networks routers, cell phone, garage doors, R/Cs, and other 2.4G/5.8GHz frequency devices. However, if you experience any interference in the 5.8G mode, you could try to use the 5.2G mode with 44 RF channel 5157- 5243 (option)

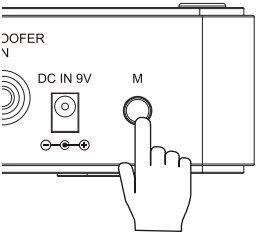
In order for the transmitter to transmit to receiver, they need to be paired. If the front panel LEDs are blinking on one or both units, do the following:

1. Short press the "M" paring button on the Transmitter and Receiver to toggle between the 5.8GHz (blinking Blue LED) channels, and the 5.2GHz (blinking Green LED)

2. Ensure both the Transmitter and Receiver show the same LED colour.

3. Long press "M" paring button again on both units to confirm the channel selection

4. Successful pairing is indicated by a solid Blue (or Green) LED on both the Transmitter and Receiver.



Description of the network status LED light

Flashing Slowly: No paired wireless device detected

Flashing Quickly: Pairing Mode

Solid Blue: 5.8G mode (as at factory default)

Solid Green: 5.2G mode (optional setup)

TroubleShoot

Problem	Solution
No Sound	- Make sure that all the cables are connected correctly
	- Make sure that the audio transmitter (TX) is connecting to the audio output from your device, like AV receiver, amplifier
	- Make sure that the audio receiver (RX) is connecting to your speakers and active subwoofer speaker
	- Check to see if the LEDs illuminate on the front of both the wireless transmitter and receiver units, if the LEDs are shown in solid Blue (in 5.8G mode) or sold Green (in 5.2G mode), the communication is working correctly. If the LEDs are different color or flashing, refer to the "NO communication" between the transmitter and receiver, then please pairing the receiver and transmitter.
	- Make sure that the home theater receiver is turned on.
	- Make sure that the correct input is selected on your home theater receiver.
	- Turn up the volume on the home theater receiver.
	- Depending on what you are listening to audio may not always play from the rear speakers.
	- If you are using the 5.1/7.1 AV receiver with WSA-5RP wireless speaker kit, please make sure to set "MULTI ST" mode on your AV receiver to turn on the rear surround speaker output (there will be no sound if you select the 2CH STEREO or DIRECT mode)
	- Make sure that the speaker wire connections are correct and secure.
	- Make sure that the wireless transmitter and wireless receiver are both connected to a working power outlet.
Sound Interference	- Move the transmitter and receiver slowly to find the best reception position for your system
	- Shorten the distance between your transmitter and receiver, the maximum distance is 100 feet (30M)
	- Check to determine if there are any obstacle, or obvious radio frequency interference sources near your system, such as the WiFi router. Make sure the wireless transmitter is more than 18 inches away from any Wi-Fi routers.
	- Other devices such as 5.8G frequency cordless phones may cause interference with the WSA-series wireless speaker kit. Try to put it as far away as possible or turning off one device at a time to determine which device is causing interference.
No communication between the transmitter and receiver	- After the power switches have been turned on on both the wireless transmitter and wireless receiver, the front panel LEDs should light. If they are solidly on, a communication link has been successfully established between the units. If they are flashing on one or both units, short press and hold the M button on either the wireless transmitter or wireless receiver for two seconds. (Both the wireless transmitter's and the wireless receiver's M buttons are on the bottom.) This will put the unit into the "pairing/ connection mode" for about 30 seconds. During this period the M button on the other unit must also be pressed for two seconds so that it will also enter "connection mode." The system proceeds with the connection process between the wireless transmitter and wireless receiver. While in "pairing connection mode," the LED indicators blink at a faster rate. When an active link is established between the wireless transmitter and wireless receiver, the LED indicators will be solid on Blue (5.8G mode) or Green (5.2G mode) on both units, and will not blink.
	- Make sure that the power cords are connected correctly.
	- Make sure both wireless transmitter and receiver units are shown same color LED. Solid Blue color (in 5.8G mode status) or Green (in 5.2G mode status)

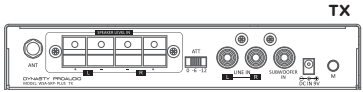
Placing the wireless transimtter and wireless receiver

The wireless transimtter and receiver must be placed within 100 feet for proper operation.

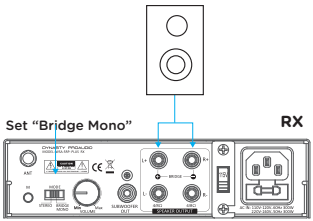
To avoid risk of electric shock and fire, and to prevent damage, locate the wireless transmitter and receiver units with no obstructions in front.

Add the extra wireless receiver (model WSA-5RP-PLUS-RX)

If your rear speakers are separate far from each other in different location within long distance, and don't want to run wires from one receiver to two speakers.
You can PAIR the second wireless receiver to the existing transmitter for the “1 to 2” wireless audio transmission.
For pair those 3 devices are very easy.
1. Set the original wireless receiver to “Bridge” position, and follow the bridge speaker wiring connection.
2. Set the additional wireless receiver (model WSA-5RP-PLUS-RX) to the Bridge “Mono R” position, and follow the bridge speaker wiring connection.
3. Short press the “M” paring button on the 1 x Transmitter and 2 x Receiver to restart the new pairing process, and toggle between the 5.8GHz (blinking Blue LED) channels, or press again to select the 5.2GHz (blinking Green LED)
4. Ensure those 1 x Transmitter and 2 x Receivers show the same LED colour.
5. Long press “M” paring button again on 3 units to confirm the channel selection
6. Successful pairing is indicated by a solid Blue (or Green) LED on those 1 x Transmitter and 2 x Receivers.
Please keep in mind that when you do the multi receivers pairing might takes few times to get it done, but once you got the tip, you will find the whole process is very easy.



WSA-5RP-PLUS (Original Set)



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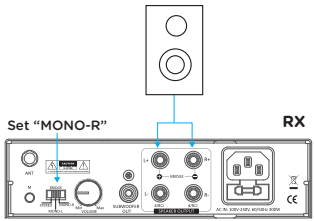

WSA-5RP-PLUS-RX (Additional Wireless Receiver)

FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the device into an experienced radio/TV technician for help.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If you cannot eliminate the interference, the FCC requires that you stop using your product. Changes or modifications not expressly by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Contact:

For service and support, please contact ***support@dynastyaudio.com***

Technical Specifications

Audio Transmission: Digital, uncompressed, bidirectional, adaptive FHSS

Radio Frequency: 5.8G Mode - RF channel 5727~5848

5.2G Mode - RF channel 5157~ 5243

Sampling Rate: 24bit, 48KHz

Transmitter Operating Range: Max 100 ft - line of sight (best result)

Max. 50 ft - through walls and ceilings (not recommend)

Subwoofer Output Level: 1V

Receiver Amplifier Speaker Output: 2 x 100W @ 4 ohm / 2 x 50W @ 8 ohm
(1 x 200W Mono @ 8 Ohm Bridge Mode)

Input Sensitivity: Line In: 500mV

Subwoofer In: 500mV

Speaker Audio In: 9V

Audio Distortion: Subwoofer: < 1%

Speaker: <10%

Frequency Response: Speaker : 20Hz ~ 22 kHz

Subwoofer: 17Hz ~ 200Hz

Signal-to-noise ratio: > 90dB

Latency: <17ms

Total harmonic distortion: typ. -90 dB

Dimensions (W x D x H): Transmitter 175mm x 100 mm x 30 mm

Receiver: 175mm x 150 mm x 45 mm

Weight: Transmitter (1.1 lbs) / Receiver (2.7 lbs)