

PAEXWIR Product Manual

Wireless Audio Extender



Safety Instructions

For optimum performance and safety, please read these instructions carefully before use and keep this manual for future reference. Please have the part number, serial number, and invoice available when requesting support.

- To prevent electric shock, please ensure that all apparatus is properly grounded.
- Place the device in a well-ventilated area and do not block any ventilation openings.
- Do not expose or place this device near water. Any liquid that goes into the device may cause a failure, fire, or electric shock.
- Do not place the device on an uneven or unstable surface. The device may fall resulting in a malfunction.
- Never insert anything metallic into the open parts of this device - this may cause an electric shock.
- If a third-party power supply is used, please ensure that the power supply specifications meet the device requirements.

Introduction

The PulseAudio PAEXWIR wireless audio extender allows stereo analog signals and subwoofer audio to be extended wirelessly up to 164ft (50m) with line of sight or 50ft (15m) through walls, ceilings, and floors (WiFi rules apply). This device utilizes 5.2GHz or 5.8GHz signals to help reduce interference resulting in a consistent and stable connection without comprising audio quality. The PAEXWIR is a great solution where cabling cannot be run to remote speakers or subwoofers.

Product features:

- Wireless transmission of a 2.1 audio system (2Ch with 1 subwoofer)
- Lossless audio up to 164ft (50m) with line of sight or 50ft (15m) through walls, ceilings, and floors (WiFi rules apply)
- 24-bit, 48KHz uncompressed high quality stereo audio
- LPF (low pass filter) mono subwoofer input/output
- Selectable wireless frequency from either 5.2GHz or 5.8GHz to reduce interference for a consistent and stable connection

Package contents:

- (1) Wireless audio extender set - TX and RX
- (2) USB-A male to right angle power cables
- (2) USB-A power adapters
- (2) Adhesive mounting pads
- (1) Quick start guide

Specifications

Product specifications may change without prior notice due to upgrade or update of product functions and capabilities. Please visit www.vanco1.com for the most up to date version of this manual.

General		
Audio transmission	Uncompressed, adaptive FHSS	
Audio formats	PCM/stereo	
Sampling rate	24-bit, 48 KHz	
Frequency response	Line level	20Hz to 20kHz
	Subwoofer	20Hz to 170Hz
Subwoofer output	6dB	
Audio distortion	<1%	
Signal to noise ratio	>80dB	
Latency	<20ms	
Radio frequency	5.8G - RF channel 5725~5850MHz	
	5.2G - RF channel 5135~5260MHz	
Transmission range	Line of site (best results)	164ft (50m)
	Walls, ceilings, and floors (WiFi rules apply)	50ft (15m)
Voltage level	2.4V	
Power supply	5V, 1A	
Dimensions	4.10in x 2.90in x 1.10in (105mm x 74mm x 29mm)	
Net weight	0.40lbs (181.43g)	

Panel Descriptions

Please reference the panel descriptions below for port information and descriptions. A detailed connection diagram illustrating the PAEXWIR in use is shown on the following page.



Transmitter Unit	
ON/OFF	Turns unit on and off
POWER	Emits red when power is connected
5.8GHz	Displayed when unit is using 5.8GHz frequency for pairing
5.2GHz	Displayed when unit is using 5.2GHz frequency for pairing
PAIRING	Press to pair with powered RX
SUBWOOFER	Subwoofer input connection (connects to sub out on amplifier, receiver, or audio source)
L/R OUT	Line level dual RCA input (connects to stereo analog audio source)
DC 5V	Connects the included DC 5V power supply.
Receiver Unit	
ON/OFF	Turns unit on and off
POWER	Emits red when power is connected
5.8GHz	Displayed when unit is using 5.8GHz frequency for pairing
5.2GHz	Displayed when unit is using 5.2GHz frequency for pairing
PAIRING	Press to pair with powered TX
SUBWOOFER	Subwoofer output connection (connects to an active subwoofer or subwoofer amplifier)
L/R	Line level dual RCA output (connects to amplifier, home theater system, active speakers, etc)
DC 5V	Connects the included DC 5V power supply.

Connection Diagram

Please reference the diagrams below for how to connect and operate the PAEXWIR wireless audio extender.

Connect and Operate

1. Connect the transmitter to an analog audio source and/or subwoofer output.
2. Connect the receiver to an analog audio device such as an amplifier, active speaker, subwoofer, etc.
3. First, connect the power supply to the transmitter and then connect the other power supply to the receiver.

Note: The transmitter and receiver should be paired automatically out of the box using 5.8GHz by default

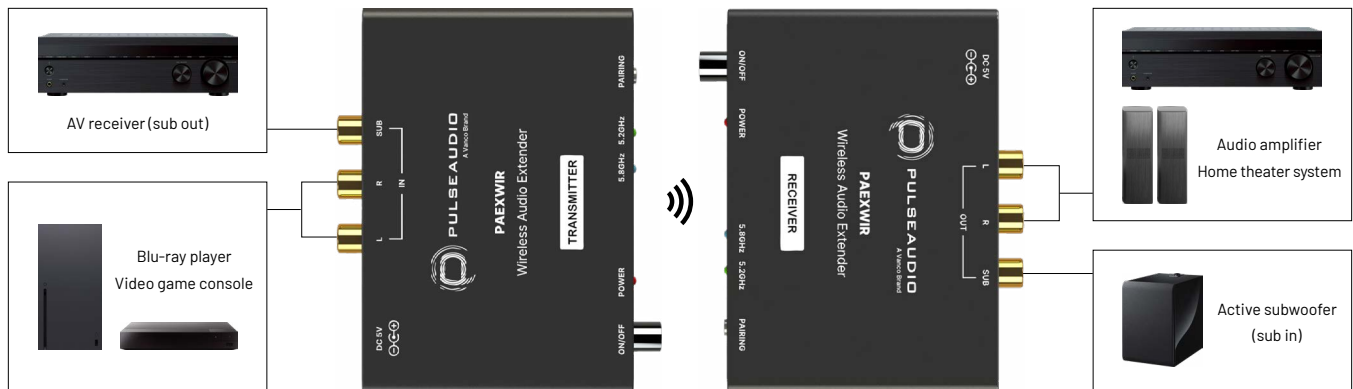
Pairing

The PAEXWIR comes already paired for easy, plug and play functionality. In the event the units become unpaired, perform the following procedure:

1. Short press the “pairing” button on the transmitter and receiver to toggle between 5.8GHz (blue LED) and 5.2GHz (green LED).
2. Ensure the transmitter and receiver LED colors are the same.
3. Long press the “pairing” button for 3 seconds on both units to enter pairing mode. The 5.8G or 5.2G LEDs will blink quickly once in pairing mode.

Note: Pairing mode period lasts 20 seconds in case both units are not side by side and buttons are not able to be pushed simultaneously. After 20 seconds, the “pairing” button will need to be pressed and held again to enter pairing mode.

4. Successful pairing is indicated by a solid blue or green LED (depending on which GHz signal is selected) on both the transmitter and receiver.



Troubleshooting

Problem	Solution
No sound	Ensure all the cables are connected correctly.
	Ensure the transmitter is connected to the audio output from your device, such as AV receiver, amplifier, audio preamp, etc.
	Ensure the receiver is connected to your amplifier, home theater system, active speakers, active subwoofer speakers, etc.
	Check to see if the LEDs illuminate on the front of both the transmitter and receiver. If the LEDs are the same on both the transmitter and receiver, and are solid blue (in 5.8GHz mode) or solid green (in 5.2GHz mode), the communication is working correctly. If the LEDs are different colors or flashing, there is no communication between the transmitter and receiver. Enter pairing mode to pair the receiver and transmitter.
	Ensure the home theater receiver is powered on.
	Ensure the input is correctly selected.
	Turn up the volume on the home theater receiver.
	Ensure the speakers and/or subwoofer are connected. Ensure the transmitter and receiver are both connected to known working power outlets or power sources (USB port).
Sound interference	Move the transmitter and receiver slowly to find the best reception position for your system.
	Shorten the distance between transmitter and receiver. The maximum distance is 164ft (50m) with line of sight.
	Check to determine if there are any obstacles, or radio frequency interference sources near your system - such as a WiFi router. Ensure the transmitter is more than 18" away from any WiFi routers. Other devices such as a 5.8GHz frequency cordless phone may cause interference. Separate the unit(s) as far away as possible or turn off one device at a time to determine which device is causing interference. You may use the 5.2GHz option as an alternative.
No communication between the transmitter and receiver	After the power has been turned on for both the transmitter and receiver, the front panel LEDs should be on. If they are solid, a communication link has been successfully established between the units. If they are flashing on one or both units, enter pairing mode.
	Ensure that the power supplies are correctly connected.
	Ensure both the transmitter and receiver are on the same frequency. Solid blue (in 5.8GHz mode) or green (in 5.2GHz mode).

Limited Warranty

With the exceptions noted in the next paragraph, Vanco warrants to the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of 2 years from the date of purchase. Should this product, in Vanco's opinion, prove defective within this warranty period, Vanco, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of Vanco. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into Vanco products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to Vanco. A surge protector, power conditioner unit, or an uninterruptible power supply must be installed in the electrical circuit to protect against power surges.

If repairs are needed during the warranty period, the purchaser will be required to provide a sales receipt/invoice or another acceptable proof of purchase to the seller of this equipment. The seller will then contact Vanco regarding repair or replacement.

Liability Statement

Every effort has been made to ensure that this product is free of defects. The manufacturer of this product cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user and installer of the hardware to check that it is suitable for their requirements and that it is installed correctly. All rights are reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

Manufacturer reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way. For additional information, please visit www.vanco1.com.

Technical Support

Please read this product manual prior to calling or installing this unit, since it will familiarize you with the capabilities of this product and its proper installation.

In case of problems, please contact Vanco Technical Support by dialing 1-800-626-6445. You can also email technical support issues to techsupport@vanco1.com. When calling, please have the part number, serial number, and invoice available for reference.

All active electronic products are 100% inspected and tested to insure highest product quality and trouble-free installation and operation. The testing process utilizes the types of high-definition sources and displays typically installed for entertainment and home theater applications.

Vanco Tech Support

Phone: 1-800-626-6445

Email: techsupport@vanco1.com

Web: www.vanco1.com/tech-support

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