



PULSEAUDIO PAEXARC1 ARC Digital Audio Extender User Manual

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PULSEAUDIO™
A Vanco Brand

PULSEAUDIO PAEXARC1 ARC Digital Audio Extender



PAEXARC1

For applications where ARC signals need to be extended above HDMI® cabling limitations to an amplifier or distributed audio system.

Product Information

ARC Digital Audio Extender (PAEXARC1)

The ARC Digital Audio Extender is a device that allows the extension of digital audio signals up to 492ft/150m using an optical/ARC connection or up to 295ft/90m using only the ARC connection. The extender set includes a transmitter and a receiver, two 5V 2A USB power adapters, two USB-A to micro-USB cables, and a product manual. The device supports PCM 2CH and Dolby/DTS 5.1CH audio formats with sample rates of 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, and 192kHz. The extender is housed in a black metal casing with dimensions of 3.5 x 2.8 x 0.8 inches (90mm x 72mm x 20mm) and weighs 6.2oz/175g. The transmitter consumes .35W of power, while the receiver consumes .7W.

Product Usage Instructions

1. Connect the transmitter to the audio source (e.g., TV, amplifier) using an optical/ARC or ARC connection.
2. Connect the receiver to the audio output device (e.g., amplifier) using an optical/ARC or ARC connection.
3. Connect the transmitter and receiver using a Cat5e/6 cable.
4. Connect the power adapter to the transmitter and receiver, respectively, using the USB-A to micro-USB cables provided.
5. Turn on the audio source and output device.
6. The audio signal should now be transmitted from the source to the output device via the extender.

Please refer to the product manual for more detailed instructions and troubleshooting tips. For technical support, contact Vanco Technical Support by phone at 1-800-626-6445 or by email at techsupport@vanco1.com. Make sure to have the part number, serial number, and invoice available for reference during the call.

SAFETY INSTRUCTIONS

For optimum performance and safety, please read these instructions carefully before use. Please keep this

manual for future reference.

- To prevent electric shock, please ensure that all apparatus is properly grounded.
- Place the device in a well-ventilated area, do not block any ventilation openings.
- Do not expose this apparatus to rain or place it near water. Any liquid that goes into the apparatus 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 apparatus. This may cause a danger of electric shock.
- If a third-party power supply is used, please ensure that the power supply specifications meet the product requirements.

INTRODUCTION

The PulseAudio PAEXARC1 is an ARC Digital Audio Extender that allows digital audio to be routed from a display, back to a remote location or amplifier, over a single Cat5e/6 cable up to 492ft (150m). For displays without ARC capability, or when ARC settings are not working as they should, the built-in “ARC Backup Plan” is featured where audio can still be extended utilizing SPDIF. For applications where ARC signals need to be extended above HDMI® cabling limitations to an amplifier or distributed audio system, the PAEXARC1 is the perfect solution.

The range of the PAXEARC1 will vary depending on the HDMI®/ARC sample rates. For instance, higher sample rates, 192kHz, will be rated at 295ft (90m), while lower sample rates, 96kHz, will be rated at 492ft (150m).

Product Features

- Extends ARC Digital Audio signals over Cat5e/6
- Supports a single HDMI® ARC input and output
- Extends digital audio signals up to 492ft (150m) at 96kHz or 295ft (90m) at 192kHz over a single Cat5e/6
- Built-in “ARC Backup Plan” with SPDIF input and output
- Supports Dolby / DTS 5.1CH and PCM 2CH audio formats
- Simultaneous output of HDMI® and SPDIF ports on the RX unit
- CEC pass-through when HDMI® ARC mode is enabled
- **Dimensions:** 3.5” x 2.8” x 0.8” (90mm x 72mm x 20mm)
- **Weight:** 6.2oz (175g)

Package Contents

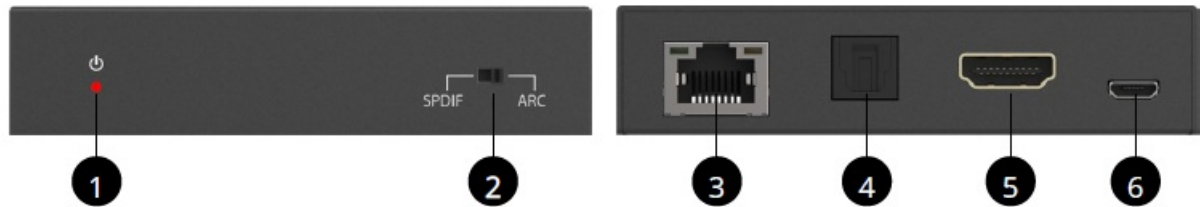
- (1) Digital audio extender set – TX and RX
- (2) USB-A to micro-USB cables
- (2) 5V 2A USB power adapters
- (1) Product manual

SPECIFICATIONS

Audio	
Supported Audio Formats	PCM 2CH, Dolby/DTS 5.1CH
Sample Rates	
Optical / ARC (492ft / 150m)	32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz
ARC (295ft / 90m)	32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
Connections	
Transmitter	Input: (1) SPDIF, (1) ARC HDMI® In, (1) Micro-USB (Power)
	Output: (1) CAT Out (Cat5e/6)
Receiver	Input: (1) CAT In (Cat5e/6), (1) Micro-USB (Power)
	Output: (1) SPDIF Out, (1) ARC HDMI® Out
Technical & Mechanical	
Housing	Metal
Color	Black
Dimensions	3.5" x 2.8" x 0.8" (90mm x 72mm x 20mm)
Weight	6.2oz / 175g
Power	
Power Consumption	Transmitter: .35W
	Receiver: .7W
ESD	Human-body Model: ±8kV (Air-gap discharge)
	±4kV (Contact discharge)
Operating Environment	
Temperature	Working: 0°C to 40°C / 32°F to 104°F
	Storage: -20 to 60°C / -4°F to 140°F
Relative Humidity	20 to 90% RH (Non-condensing)

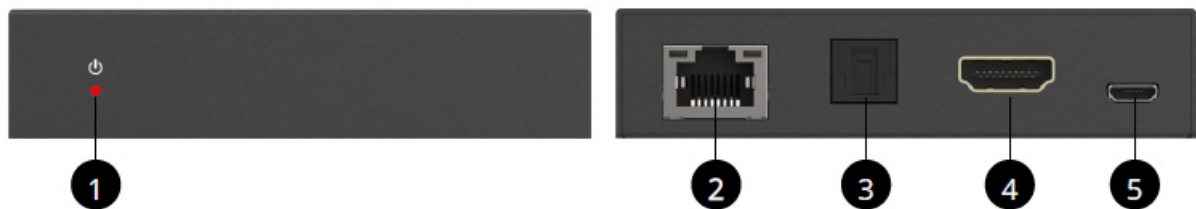
PANEL DESCRIPTIONS

Transmitter Panel



1. **POWER LED:** When the transmitter is receiving power, the LED light will be red.
2. **SPDIF/ARC SWITCH:** Selects the audio pass-through channel:
 - **SPDIF:** Digital audio signals are input from the SPDIF IN port of the transmitter
 - **ARC:** Digital audio signals are input from the HDMI® ARC IN port of the transmitter.
3. **CAT OUT:** Connect a single Cat5e/6 cable from the transmitting unit to the receiving unit (home-run cabling strongly recommended without any couplings, punch-downs, or patch panels).
4. **SPDIF IN:** Connect to an optical audio source device with an optical toslink cable.
5. **ARC IN:** Connect to a TV with ARC functionality for ARC audio and CEC pass-through.
 - **NOTE:** Ensure this is connected to the display's ARC HDMI® port, and that the option for ARC is enabled within the display options.
6. **DC 5V:** Plug in the included Micro USB power cable for power.

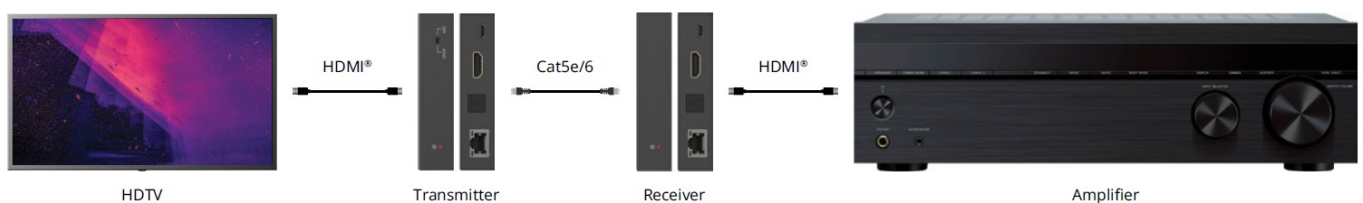
Receiver Panel



1. **POWER LED:** When the receiver is receiving power, the LED light will be red.
2. **CAT IN:** Connect a single Cat5e/6 cable from the transmitting unit to the receiving unit (home-run cabling strongly recommended without any couplings, punchdowns, or patch panels).
3. **SPDIF OUT:** Connect to a speaker or amplifier with an optical toslink cable.
4. **ARC OUT:** Connect to an audio device with ARC such as a soundbar, amplifier, or AV Receiver.
5. **DC 5V:** Plug in the included Micro USB power cable for power.

OPERATION

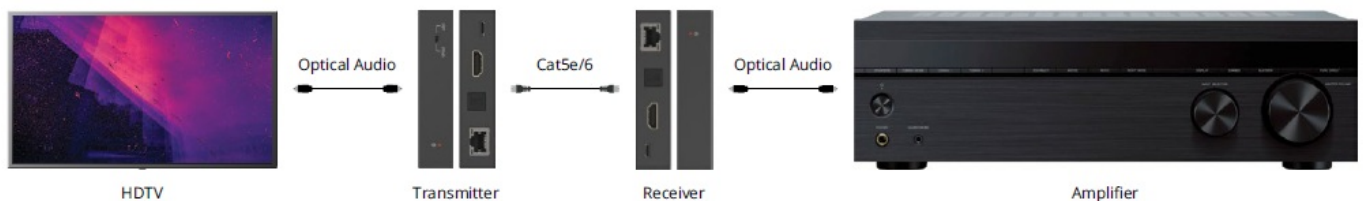
HDMI ARC: For Displays and Amplifiers/Soundbars with ARC functionality



1. Connect an ARC equipped display such as an HDTV or HD Projector using the ARC HDMI® port of the display to the HDMI® input on the Transmitting unit and set the SPDIF/ARC toggle switch to ARC.

- **NOTE:** Please refer to the display's manual on how to enable ARC settings.
2. Connect an amplifier, AV Receiver, or soundbar to the HDMI® output on the Receiving unit.
 - **NOTE:** If there are multiple HDMI® ports on the audio device connected to the receiver, make sure it is connected to the HDMI® port labeled ARC. Refer to the device's manual if additional ARC settings need to be enabled.
 3. Connect a single Cat5e/6 to the CAT OUT port of the Transmitting unit, and the other end to the CAT IN port of the Receiving unit (home-run cabling strongly recommended without any couplings, punch-downs, or patch panels).
 4. For power, plug the Transmitting unit and Receiving unit with the included USB power cables and adapters.
 - **NOTE:** The PAEXARC1 can perform and function using a single power supply being used on the Transmitting or Receiving units. However, in some applications this can result in occasional loss of CEC control and functionality (ARC remains intact).
 5. Power on and test (Receiver and Transmitter will already be powered when either unit is plugged in).

Built In ARC Backup



In the event there are compatibility or communication issues when trying to only use the HDMI® ARC functions of the extender, or the display may not have ARC capabilities, the “ARC Built-In Backup Plan” allows you to convert digital audio. This allows you to utilize the optical audio output of the display, into the SPDIF IN port on the transmitter, and through the HDMI® OUT port on the receiver.

TECHNICAL SUPPORT

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 (affixed to the bottom of the unit) and invoice available for reference during the call. Please read this instruction manual prior to calling or installing this unit, since it will familiarize you with the capabilities of this product and its proper installation. 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.

For additional information, please visit: www.vanco1.com.

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/sales invoice or other acceptable proof of purchase to the seller of this equipment. The seller will then contact Vanco regarding warranty 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. The 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.

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TECHNICAL SUPPORT


- **Phone:** 1-800-626-6445
- **Email:** techsupport@vanco1.com
- **Web:** www.vanco1.com

Please have the part number, serial number, and invoice available for reference. Please read this instruction manual prior to calling or installing this unit since it will familiarize you with the capabilities of this product and its proper installation.

Vanco International, LLC

- 506 Kingsland Dr., Batavia, IL 60510
- **Phone:** 800-626-6445
- **Fax:** 630-879-9189
- **Web:** www.vanco1.com

Documents / Resources

 <p>ARC DIGITAL AUDIO EXTENDER</p> <p><small>PAEXARC1 PulseAudio ARC Digital Audio Extender (ARC) is a digital audio extender that allows you to connect your digital audio source to a digital audio system. ©2013 PulseAudio LLC</small></p>	<p>PULSEAUDIO PAEXARC1 ARC Digital Audio Extender [pdf] User Manual PAEXARC1 ARC Digital Audio Extender, PAEXARC1, ARC Digital Audio Extender, Digital Audi o Extender, Audio Extender, Extender</p>
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References

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