

AItech
ProAV Media Extender

2.4G wireless (Video to TV) audio/video transmitter and receiver

User's Manual

AItech International

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1. Introduction

Overview

AITech used advanced wireless transmission technology in developing this **ProA/V Media Extender**, which is highly resistant to external interference and can deliver clear and sharp images and sound over distances of 100 feet. PAL and NTSC formats are supported. FCC Class B certified. Remotely control the A/V source with the IR Extender feature. Using the **ProA/V Media Extender** you can wirelessly transmit from your A/V source to any A/V receiver or TV, and watch your favorite TV programs or listen to hi-fi stereo quality sound any time, any place.

Key Features

- There are 4 user-selectable channels in order to increase the flexibility and reliability; 2.414GHZ, 2.432GHZ, 2.450GHZ, and 2.468GHZ.
- 2.4 GHz wireless transmitter and receiver with 4 selectable channels (DIP Switch)
- Remote control A/V sources with IR Extender (433MHz)
- The ProA/V Media Extender supports PAL and NTSC video formats
- Clear and sharp images video and stereo audio quality output from the receiver
- Wireless transmission is up to 200 feet in open areas, and up to 100 feet inside most homes, schools and offices, depending on the construction of the materials between the transmitter and receiver.
- Working temperature ranges from 0 C to + 60 C
- Compact size - antennas are embedded in the housing
- No software required
- FCC certified
- Compatible with Camcorder and CMOS cameras
- Receiver wirelessly accepts A/V signals from transmitter and output connects to TV, LCD TV monitor, PDP TV, VCR, Digital Video recorder, video projector, speaker, or any device with video/audio input

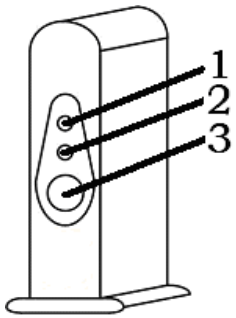
Multiple-operation modes:

- one-to-one (1 transmitter to 1 receiver) on the same channel
- one-to-multiple (1 transmitter to multiple receivers) on the same channel

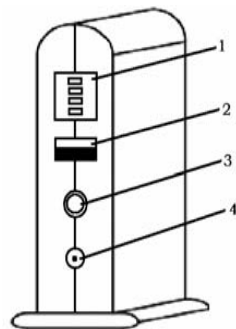
- multiple-to-multiple (multiple transmitters to multiple receivers) on up to 4 channels, work simultaneously in the same area.

2. Package Contents

2.1 One Transmitter and one Receiver



- 1: Signal power
- 2: Power
- 3: IR Extender

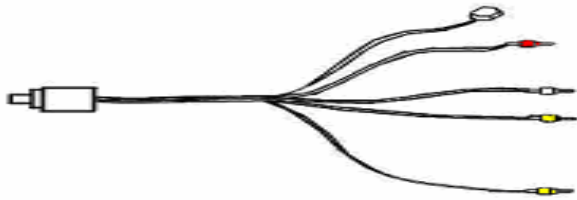


- 1: Channels
- 2: On/Off Switch
- 3: A/V signal
- 4: Power in

2.2 Two A/V cables



For Receiver



For Transmitter

2.3 Two power adaptors



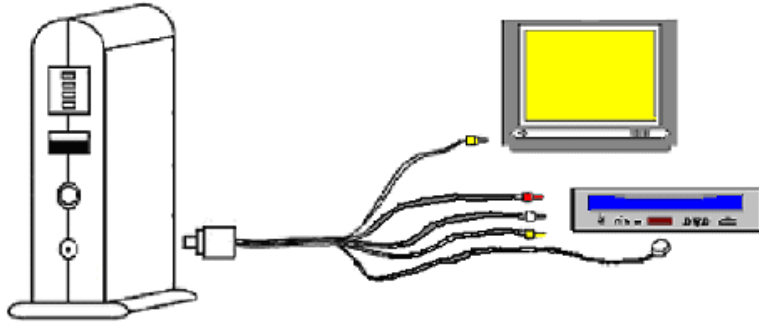
3. Remote control A/V sources with IR Extender

- Position the A/V cable's IR transmission head aiming at the IR Extender of equipment you want to control (A/ V source: DVD, VCD, STB etc.)
- At the side of Receiver, you only need to handle the remote controller (A/ V signal source: DVD, VCD, STB etc.) aiming at the IR Extender window of the Receiver, and then you can remotely control your A/V sources.
- **Note: The IR Extender operation works only with IR remote controls that operate on the 433MHz frequency. IR remotes that operate on other frequencies can not be remotely controlled by the ProA/V Media Extender. If you cannot remotely control your A/V source device through the ProA/V Media Extender, your remote doesn't operate on the 433MHz frequency.**

4. How to Connect

4.1 How to connect the Transmitter

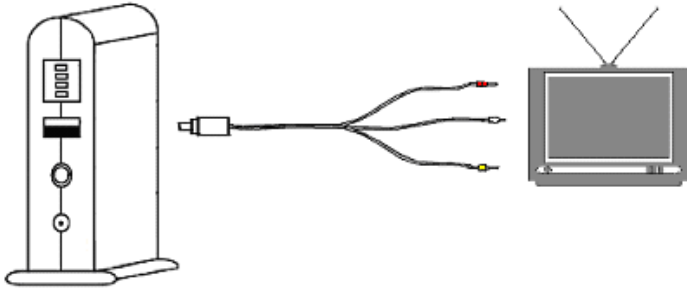
Connect the transmitter by A/V cable to A/V sources as illustrated:



A/V Sources include: DVD, VCD, Security monitor, Hi-Fi stereo, projector, computer etc.

4.2 How to connect the receiver

Connect the receiver to A/V display by A/V cables as following illustrates:

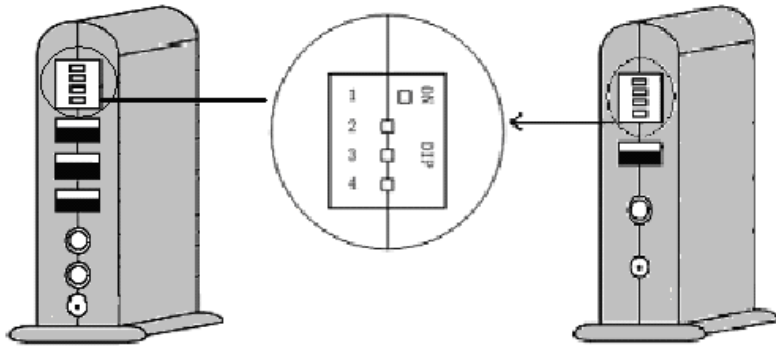


A/V sources include: TV, PC monitor with A/V out, projector, sound box etc.

4.3 Connect the power supplies to the transmitter and receiver.

5. Operation

5.1 Adjust channels



5.2 Turn on the A/V sources and A/V display

5.3 Turn the power switch to ON.

6. Troubleshooting

6.1 No Picture or Sound

- Check that the power adapters are connected and the lights on the transmitter and receiver are lit.
- Reset the units by turning them OFF and then ON again using the On/Off switch.
- Make sure you have the same channel selected on both the transmitter and receiver.
- Make sure all cables are connected correctly.
- Make sure the A/V device connected to the transmitter is turned on and that you are connected to its **A/V Out** jacks.
- Make sure the receiver is connected to the **A/V In** jacks on your TV, and that the TV is set to display the correct input. Check your TV's manual for more information.

6.2 Interference in the Image and Sound

- Move your Sender or Receiver slowly to find the best reception position for your A/V system.
- Shorten the distance between the sender/receiver.
- Microwave ovens, cordless phones and wireless computer networking equipment can all operate on the 2.4GHz frequency. Make sure these devices are off if you have interference.
- Check whether your sender and receiver are on the same channel.
- Try each of the 4 channel combinations to find the best reception.

7. Specifications

7.1 Sender

Dimension: 100Dx40Wx155H (Unit is mm)

VIDEO Input Level: 1Vp-p, 75, support PAL and NTSC format

AUDIO Input Level: 1Vp-p, stereo

Antenna: Dipole

Operating Temperature: -10° to +60°

VGA TO VIDEO:

VIDEO Output Formant: PAL and NTSC formant

2.4GHz wireless transmission: Frequency: 2400MHz - 2483MHz

Transmission Power: 10dBm

Channel Number: 4 (2414, 2432, 2450, 2468MHz)

Frequency Stability: +-100KHz

7.2Receiver

Dimension: 100Dx40Wx155H (Unit is mm)

Operating Temperature: -10° to +60°

VIDEO Output Level: 1Vp-p, 75, Support PAL and NTSC formant

AUDIO Output Level: 1Vp-p, Stereo

Antenna: Dipole

2.4GHz wireless transmission: Frequency: 2400MHz - 2483MHz

Receiver Sensitivity: -85dBm

Channel Number: 4 (2414, 2432, 2450, 2468MHz)

Frequency Stability: +-100KHz

Warranties

This appendix documents the product warranty applicable to the United States only, as well as information about FCC radio frequency interference. For warranty information outside of the United States, please contact your local distributor.

Limited Warranty

This AITech product is warranted to be free from failures due to defects in material and workmanship for one year from the date of original purchase as evidenced by a copy of the purchase receipt. During the warranty period, AITech, at AITech's sole discretion, will repair or replace at no charge, the product which, in its opinion, is defective.

A Return Merchandise Authorization (RMA) number must be obtained from AITech prior to returning any merchandise for repair or replacement. Merchandise sent to AITech without an RMA will be returned unopened.

The original purchaser is responsible for packing the product for shipment and for the charges to ship the failed product to AITech. AITech is responsible

for charges to ship the repaired or replaced product. If any charge to you is involved, the replacement product will be shipped C.O.D.

If the failed product has been modified in any way without the consent of AITech or if the failure is the result of misuse, abuse, or misapplication, AITech has no obligation to repair or replace the failed product.

EXCEPT AS EXPRESSLY PROVIDED ABOVE, THE PRODUCT AND ACCOMPANYING WRITTEN MATERIALS (INCLUDING THE USER'S GUIDE) ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. AITECH SPECIFICALLY DOES NOT WARRANT THE OPERATION OF THE PRODUCT AND WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT EVEN IF AITECH HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGE, SO THE ABOVE LIMITATION MAY NOT APPLY.

FCC Radio Frequency Interference Statement

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. 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 then on again, you are 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 the receiver
- Connect the equipment into an outlet on a circuit different from the circuit to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Shielded cables and I/O cords must be used for this equipment to comply with the relevant FCC regulations. Changes or modifications not expressly approved in writing by AITECH may void the user's authority to operate this equipment.

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