

Optical & RS-232 Transmitter or Receiver

TRANSMITTER

RECEIVER





A-NeuVideo.com Frisco, Texas 75034 (469) 277-7606



SAFETY INFORMATION



- 1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
- 2. Follow all instructions printed on unit chassis for proper operation.
- 3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
- 4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
- 5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
- 6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
- 7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
- 8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
- 9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
- 10. Turn power off and disconnect unit from AC current before making connections.
- 11. Never hold a power switch in the "ON" position.
- 12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
- 13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.
- 14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
- 15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
- 16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
- 17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
- 18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
- 19. Service Information Equipment should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the equipment.
 - C. The equipment has been exposed to rain.
 - D. The equipment does not appear to operate normally, or exhibits a marked change in performance.
 - E. The equipment has been dropped, or the enclosure damaged.

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DEAR CUSTOMER

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

INTRODUCTION

The ANI-304TX/RX Optical (S/PDIF) IN & OUT with RS-232 Transmitter or Receiver can send and receive S/PDIF audio signal synchronously over a single run of CAT5e/6 cable up to ~985 ft/300M. With RS-232 control and PoE feature added this Transmitter can pair with the Receiver unit together that support device control and one side power supply. These products have a 3 year warranty.

PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- ANI-304TX Optical IN/OUT and RS-232 Transmitter and/or
- ANI-304RX Optical IN/OUT and RS-232 Receiver
- 12V Power Adaptor* (1) per unit
- Users Guide

* (No Power Supply Included for certain PoH Matrix combinations, such as the ANI-1082UHD or ANI-AD100.)

APPLICATIONS

- · Home sound system extension
- · Conference and meeting room audio system sharing
- · Showroom audio extension
- · Airport announcement system
- Public sound system installation

SYSTEM REQUIREMENTS

Input Transmitter with source equipment such as Blu-ray/DVD player and output to active speakers or sound systems. Connect RS-232 to control device for RS-232 command receiving.

Input source equipment such as Blu-ray/DVD player and output connect to Receiver for active speakers or sound systems. PC/ Laptop for RS-232 command sending or RS-232 control device.

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- · Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

DISCLAIMERS

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FEATURES & SPECIFICATIONS

FEATURES

- S/PDIF IN/OUT and RS-232 control
- Optical S/PDIF audio sampling rates up to 192kHz
- S/PDIF with 192kHz sampling rate over a single CAT5e/6/7 cable up to ~328ft/100M, 96kHz sampling rate for cables up to ~492ft /150M and 48kHz sampling rate for cable up to ~ 984ft/300M
- LPCM 2CH, Dolby Digital 2~5.1CH, DTS 2~5.1CH (Pass through)
- Bi-direction Power over Cable (PoC) & Bi-directional RS-232 control

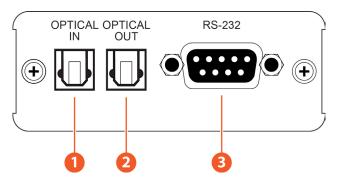
SPECIFICATIONS

- Input Port: Optical
- Output Port: Optical
- Control Port: RS-232
- Audio Sampling Rate: Up to 192kHz
- Audio Format: LPCM 2CH, Dolby Digital 2~5.1CH and DTS 2~5.1CH (Pass through)
- CAT Cable Distance:
 - 192k@328ft/100M
 - 96k@492ft/150M
 - 48k@984ft/300M
- Power Supply: 12V / 1.25A DC (US/EU standards, CE/FCC/UL certified)
- ESD Protection Human Body Model:
 - ± 8kV (air-gap discharge)
 - ± 6kV (contact discharge)
- Dimensions (WxDxH): 3 x 3.3 x 1.2 in (78.5x83.5x30mm) w/ Connector / 3 x 2.8 x 1.2 in (78.5x72x30mm) w/o Connector
- Chassis Material: Metal
- Silkscreen Color: Black
- Operating Temperature: 0°C~40°C / 32°F~104°F
- Storage Temperature: -20°C~60°C / -4°F~140°F
- Relative Humidity: 20 ~ 90% RH (non-condensing)
- Power Consumption: 0.85W

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OPERATION CONTROLS & FUNCTIONS

TRANSMITTER

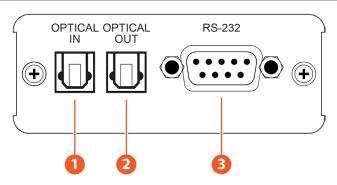


FRONT PANEL

OPTICAL IN: Connect to source equipment such as DVD/ Blu-ray player, Set-Top Box or game console for audio input signal routing.

OPTICAL OUT: Connect to active speakers and or AV amplifiers with optical cable for audio output.

8 RS-232: Connect from PC/Laptop for RS-232 command sending to control the device or with control device.



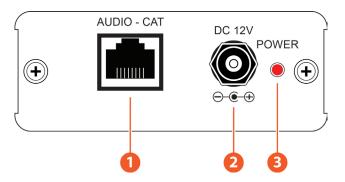
FRONT PANEL

RECEIVER

OPTICAL IN: Connect to source equipment such as DVD/ Blu-ray player, Set-Top Box or game console for audio input signal routing.

OPTICAL OUT: Connect to active speakers and or AV amplifiers with optical cable for audio output.

8 RS-232: Connect from PC/Laptop for RS-232 command sending to control the device or with control device.

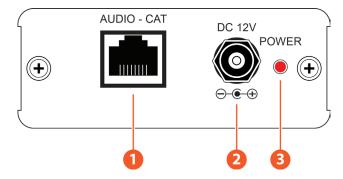


BACK PANEL

1 AUDIO-CAT: Connect the AUDIO-CAT output to the AUDIO-CAT input of the Receiver unit using CAT5e/6/7 cable.

OC 12V: Connect the adaptor with power cord included in the package and connect to AC wall outlet for power supply.

OVER INDICATOR: When power is ON, the LED will illuminate.



BACK PANEL

O AUDIO-CAT: Connect the AUDIO-CAT output to the AUDIO-CAT input of the Receiver unit using CAT5e/6/7 cable.

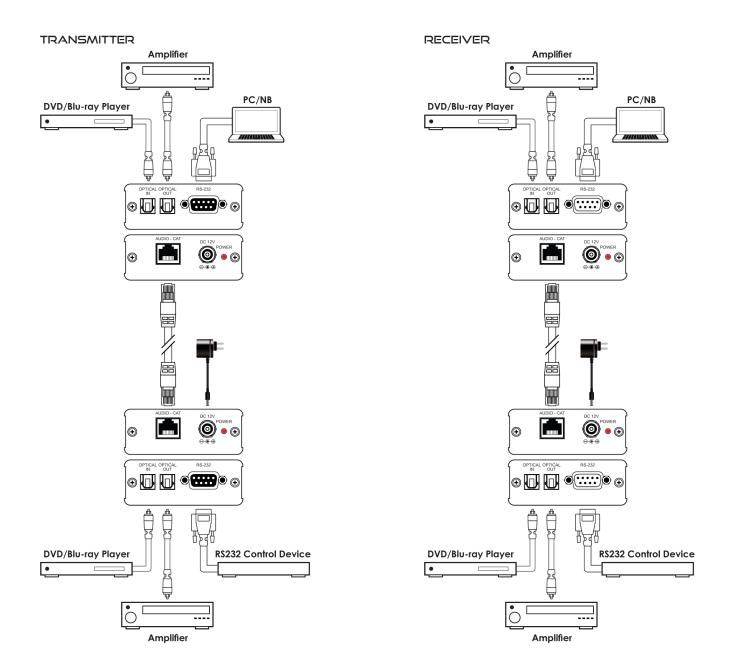
2 DC 12V: Connect the adaptor with power cord included in the package and connect to AC wall outlet for power supply.

POWER INDICATOR: When power is ON, the LED will illuminate.

RS-232 PIN DEFINITION

PIN	DEFINE TX/RX
1	N/C
2	TxD / RxD
3	RxD / TxD
4	N/C
5	GND
6	N/C
7	N/C
8	N/C
9	N/C

CONNECTION DIAGRAM



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