USER MANUAL

Covid HDBase-T Receiver for HDMI with Built in Audio de-embedding, IR, and RS232 control pass through

HDBT Receiver - RXB-A320 & RXB-B320

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Introduction

The RXB-320 is part of Covid's expanding line of HDBase-T products. The RXB-320 offers an all in one solution when audio stripping is needed on the receiving end. This is done by the integrated audio de-embedder which offers a 3.5mm TRS stereo line level connection to run to celling amps or any other audio need. The RXB-320 also offers bidirectional IR and Rs232 control when paired with a compatible transmitter. Single side connections for HDMI, Control, and Power that provides for cleaner wiring and rack mounting solutions. The RXB-320 supports local or remote powering options thru POC or PoH PD standards.

Package Contents

- 1×RXB-320
- 1×24V 1A DC power adapter
- 2×Wall mounting tabs

Key Features

- Supports HDMI up to 1080p@60Hz 48bit up to 230ft over one Cat5e/6/7 cable
- Support HDMI 4Kx2K and 3D
- HDCP Compliant
- All connections on one side for easier installation
- Bi-directional RS-232,IR
- Power units from either TX or RX side with wall power supply (PoC) or power with PoE PD;
- Status LED for all connections on front.
- Integrated audio de-embedder

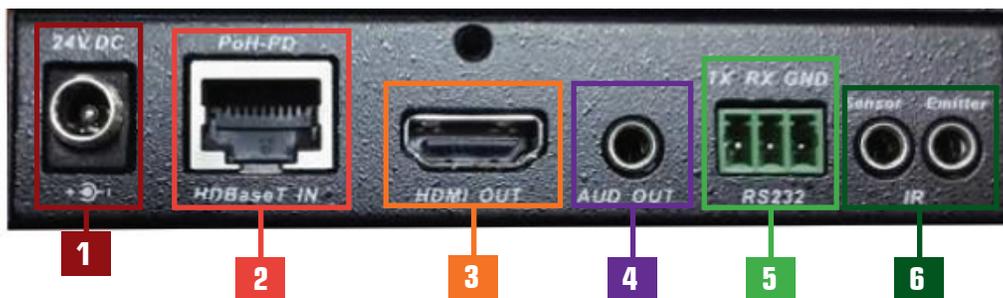## HDBT Receiver - RXB-A320 & RXB-B320

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Panel Description

Front Panel

1. **Act:** This green LED will blink showing that the device is functioning normal on both the receiver and the transmitter.
2. **Pwr:** This red LED indicator will show solid when the product is receiving power.
3. **HDMI:** This green LED solid status shows that the HDCP link is present between the source and the display. A blinking condition indicates there is not a HDCP connection, and an off condition shows a problem between the device and the source/destination in the HDMI connections.
4. **HDBT:** This green LED solid illumination shows that all connections are good and the source and display are powered on. A blinking condition shows that the RJ45 connection is present, but there is no source-to-display connection. No illumination shows that there is no connection thru the RJ45 category cable.

1. **Power:** Connect to DC adapter here to power up device
2. **HDBaseT:** Connect HDBaseT source here
3. **HDMI Output:** Connect to display
4. **AUD OUT:** Audio de-embedded, 3.5mm connector
5. **RS232:** Connect to a display for control
6. **IR:** Connect to IR emitter and sensor
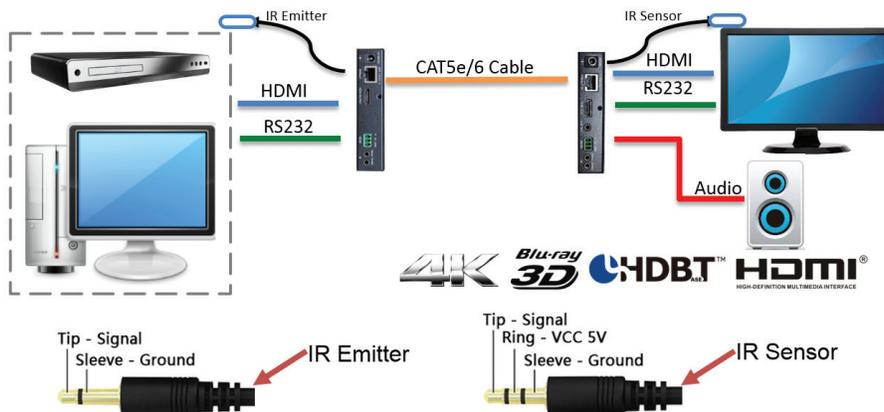
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Connection and Installation

Audio De-embedding Feature

Unique to the RXB-320 is the ability to extract the audio from the HDMI input through a 3.5mm TRS on the RX side of the signal chain. The output is a stereo unbalanced signal that can be sent to an external amplifier.

Technical Specifications

Video	
HDMI Compliance	HDMI 3D, 4K
HDCP Compliant	Yes
Distance	230ft. (70m) on 1080p@60Hz
Max Resolution	4K*2K
Connectors	
TX Connectors	(1) HDMI, (1)Rj45(HDBT),(2)IR,(1)RS232
RX Connectors	(1) HDMI, (1)Rj45(HDBT),(2)IR,(1)RS232, (1)3.5mmTRS
Mechanical	
Dimensions	111 x 75 x 25 mm(L/W/H)
Net Weight	1.06lbs[480g]
Package Size	255 x 140 x 90 mm(L/W/H)
Gross Weight	1.676lbs[760g]
Power	
Power Supply	24V 1A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

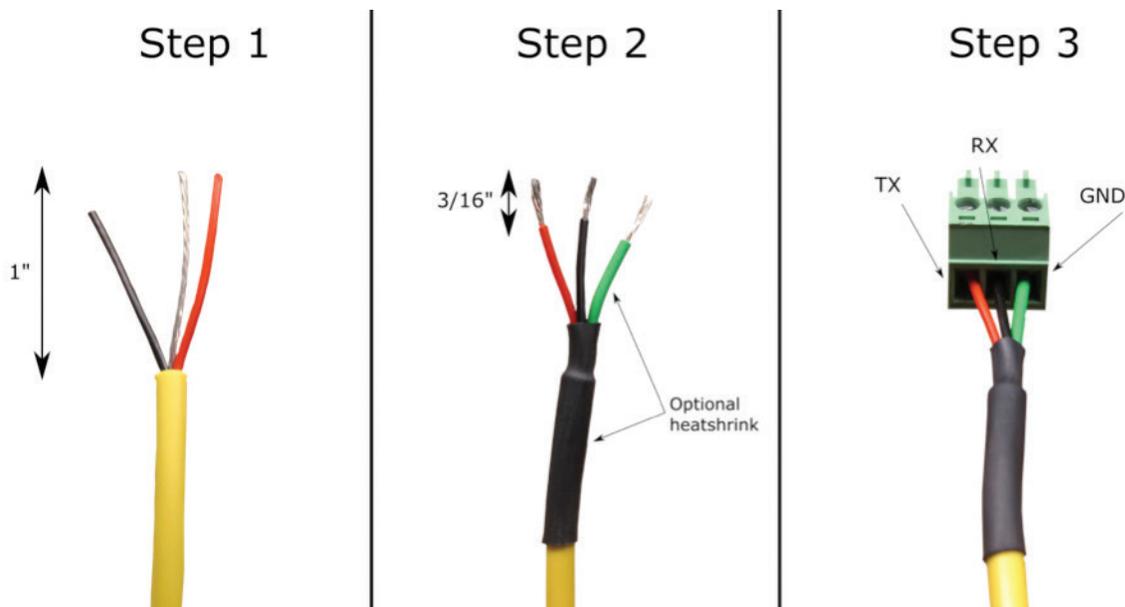## HDBT Receiver - RXB-A320 & RXB-B320

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Preparing a RS232 Cable

What you will need:
- Two conductor cables with ground
- Wire strippers
- Screwdriver (flat head)
- 3.5mm captive screw connector
- Heat gun and heat shrink (optional)
- Multimeter (optional)

Start by stripping the outer jacket of the cable back by about 1 inch like what is shown in Step 1. Once the outer jacket is removed, you can optionally add heat shrink around the conductors and over the exposed drain wire like in the picture of step 2. Next, strip the ends of the conductors back about 3/16" in order to make good contact inside of the captive screw connector. The final step is to attach the captive screw connector to the end of the cable according to the pinout.

If you do not know which conductor to use for each pin, use a multimeter to determine how the cable was built and then compare it with the image below of the male and female DB9 connectors. The conductors that are connected to the pins with the labels Tx, Rx, and shield should be connected to their respective positions on the terminal block. A word of caution, the pinout used in these images is for connecting to a RS232 DTE device. If you are connecting to a DCE device, simply switch the Tx and Rx pins on one end of the cable.
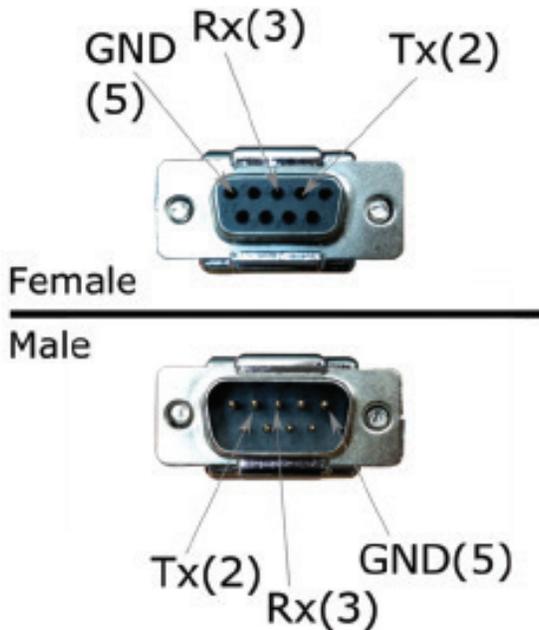
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If you are connecting the SB3M to another Covid device with RS232 communications, the cable must be appropriately pinned out. In order for the devices to communicate, the Tx and Rx pins must be switched on only one end of the connector. The image below demonstrates how this can be done with two terminal block connectors.

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Safety Information

To reduce the risk of electric shock, do not expose this product to rain or moisture.

Do not modify the power supply. Doing so will void the warranty and safety features, and may result in personal harm.

If the power supply does not fit into your local power socket, seek professional assistance.

This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

Warranty

Parts and labor warranty time is three year and from the date of original shipment. This warranty shall be void if a serial number has been removed from the product.

Upon determination of a legitimate defect covered by this warranty and at COVID's sole discretion, user should bear the transport cost during the warranty.

If product is out of warranty then repair charge is required. Out of warranty repairs will only be made after cost has been approved by Customers and proper financial arrangements are made. Customer must cover round trip shipment expenses.

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