



User Manual

HDBaseT Receiver 4K (60Hz 4:2:0) with Audio De-embedding

Model PT-HDBT-701-RXAD

Designed in Germany

Preface

Read this user manual carefully before using this product. Pictures shown in this manual are for reference only. Different model layouts and specifications are subject to the physical product.

This manual is for operation instructions only, not for any maintenance usage.

In the constant effort to improve our product, we reserve the right to make changes in functions or parameters without prior notice or obligation.

Trademarks

Product model and logo are trademarks. Any other trademarks mentioned in this manual are acknowledged as the properties of the trademark owner. No part of this publication may be copied or reproduced without the prior written consent.

FCC Statement

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. It 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 commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.



REACH | 1907/2006/EU

ROHS | 2011/65/EU

PureLink hereby declares that this product **PureTools PT-HDBT-701-RXAD** complies with Directives 1907/2006/EU und 2011/65/EU.

EMC / LVD (Electro Magnetic Compatibility / Low Voltage Directive)

PureLink GmbH hereby declares that this product **PureTools PT-HDBT-701-RXAD** complies with Directives 2014/30/EU and 2014/35/EU. The full text of the EU Declaration of Conformity is available at the following Internet address:

http://www.purelink.de/ce/4251364706756_CE.pdf



SAFETY PRECAUTIONS

To insure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
 - Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
 - Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
 - Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
 - Refer all servicing to qualified service personnel.
 - To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
 - Do not put any heavy items on the extension cable in case of extrusion.
 - Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
 - Install the device in a place with fine ventilation to avoid damage caused by overheat.
 - Keep the module away from liquids.
 - Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
 - Do not twist or pull by force ends of the optical cable. It can cause malfunction.
 - Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
 - Unplug the power cord when left unused for a long period of time.
 - Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.
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Introduction to PT-HDBT-701-RXAD

The PT-HDBT-701-RXAD is an Ultra-thin HDBaseT Receiver designed with audio de-embedded outputs. It receives 4K/1080p HDMI signal via CAT5e/CAT6a cable from HDBaseT Transmitter or Matrix Switcher at 40m/70m.

It supports unidirectional PoH function, the receiver can be powered by HDBaseT Transmitter or Matrix Switcher.

Feature

- Supports HDMI1.4 & HDCP2.2, and is backward compatible to the previous version.
- Maximum transmission distance is up to 40m (131ft) at 4Kx2K, and 70m (230ft) at 1080p.
- Supports bi-directional IR and RS232 pass-through for long-distance control.
- Supports unidirectional PoH for simplified wiring, and compatible with 48VDC PoC, the HDBaseT Receiver can be powered by HDBaseT Transmitter or Matrix Switcher.
- Supports audio de-embedded outputs.

Package Content

- 1 x PT-HDBT-701-RXAD Receiver
- 2 x Mounting Ears & 2 x Screws
- 1 x User Manual
- 1 x 3-Pin Phoenix Connector (Male)
- 4 x Plastic Cushions

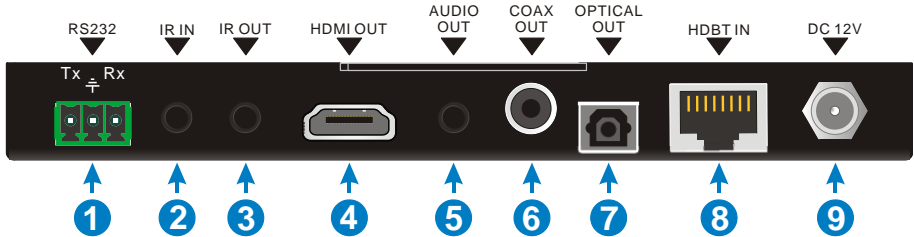
Panel Description

Front Panel



No.	Name	Description
①	RS232 MODE switcher	CTRL: RS232 pass-through control mode; UPDATE A: Update Valens IC program, connect a PC to the RS232 port, and then double-click the update file (.bat). UPDATE B: Update the IC program which is used for de-embedding audio, the upgrade method is the same as the above UPDATE A.
②	Link status LED	OFF: No Link; GREEN:Link successful.
③	HDCP compliant LED	OFF: No HDMI traffic (no picture); GREEN: Traffic with HDCP; Blinking: Traffic without HDCP.
④	Power LED	OFF: No power; RED: DC power present.

Rear Panel

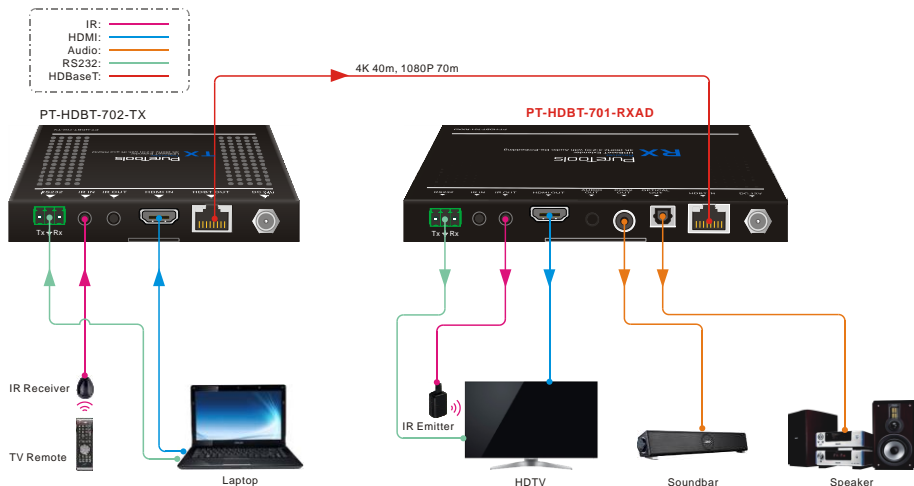


No.	Name	Description
①	RS232 connector	If one is connected with control device (e.g. PC), and the other should be connected with the third-party that need to be controlled.
②	IR IN	Work with far-end IR OUT port, connect with IR Receiver (with carrier) to collect IR signal to control far-end display device from local.
③	IR OUT	Work with far-end IR IN port, connect with IR Emitter to send IR signal to control input source device.
④	HDMI OUT	HDMI type A connector, connect to display.
⑤	AUDIO OUT	3.5mm stereo audio jack, connect to analog stereo audio device.
⑥	COAX OUT	Coaxial audio connector, connect to digital audio device.
⑦	OPTICAL OUT	Optical audio connector, connect to optical audio devices.
⑧	HDBT IN	Connect to the HDBT OUT socket on HDBaseT Transmitter or Matrix Switcher via CAT5e/6a/7 cable, support unidirectional PoH technology.
⑨	DC 12V power port	Connect to 12VDC power adaptor, or it can be powered via the HDBaseT Transmitter or Matrix Switcher by unidirectional PoH technology.

Specification

Video & Audio	
Input	HDBT IN
Output	HDMI OUT; AUDIO OUT; COAX OUT; OPTICAL OUT
Control Ports	IR IN, IR OUT, RS232
General	
Transmission Mode & Distance	HDBaseT; 1080P ≤ 70m; 4K×2K ≤ 40m
Resolution	Up to 4K×2K@60Hz 4:2:0
Bandwidth	10.2Gbps
HDMI Standard	HDMI1.4 & HDCP2.2
Power Consumption	10W (max)
Temperature	-10°C~ 50°C
Humidity	0% ~ 90%
Power Supply	Powered by HDBaseT Transmitter or Matrix Switcher
Dimension (W*H*D)	152mm×16.2mm×100mm
Net Weight (g)	223g

System Diagram



After-Sales Service

If there appear some problems when running the product, please check and deal with the problems referring to this user manual. Any transport costs are borne by the users during the warranty.

1) Product Limited Warranty: This product will be free from defects in materials and workmanship for **two years** (The purchase invoice shall prevail).

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

2) What the warranty does not cover (servicing available for a fee):

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration or malfunction caused by:
 - Normal wear and tear.
 - Use of supplies or parts not meeting our specifications.
 - No certificate or invoice as the proof of warranty.
 - The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
 - Damage caused by force majeure.
 - Servicing not authorized by distributor.
 - Any other causes which does not relate to a product defect.
- Delivery, installation or labor charges for installation or setup of the product.

3) Technical Support: For any questions or problems, contact your distributor or reseller and tell them the respective product name and version, the detailed failure situation as well as the formation of the cases.

Asking for Assistance

Technical Support:

Phone: +49 5971 800299 - 0

Fax: +49 5971 800299 – 99

Technical Support Hours:

8:30 AM to 5:00 PM Monday thru Thursday

8:30 AM to 4:00 PM Friday

Write to:

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