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VIVO◊LINK™
PROFESSIONAL AV SOLUTIONS

VLHDMIMAT4X 431-R 4K HDMI Receiver

VIVOLINk VLHDMIMAT4X431-R 4K HDMI Receiver User Manual

Contents

VIVO◊LINK™
PROFESSIONAL AV SOLUTIONS

VIVOLINk VLHDMIMAT4X431-R 4K HDMI Receiver

Product Information

Specifications:

- Input: (1) HDBT
- Input Connector: (1) RJ45
- Output: (1) HDMI
- Output Connector: (1) Female type-A HDMI
- Control: (1) IR IN, (1) IR OUT
- Video Resolution: Up to 4Kx2K@60Hz 4:4:4
- Transmission Mode: HDBaseT
- Transmission Distance: 1080p@60Hz 230ft/70m, 4K@60Hz 131ft/40m
- HDMI Version: 2.0
- HDCP Version: 2.2
- Bandwidth: 18Gbps
- Power Consumption: 9.5W (Max)
- Operating Temperature: -10°C to +55°C
- Storage Temperature: -25°C to +70°C
- Relative Humidity: 10%-90%
- Power Supply: Input Power: 24V DC 1.25A or Power over Cable (PoC) AC Adaptor Input Power: 100~240VAC, 50/60Hz
- Dimension (W*H*D): 74mm x 18mm x 120mm
- Net Weight (g): 235g

Product Usage Instructions

Safety Precautions:
To ensure the best performance from the product and for safety reasons:

- Read all instructions carefully before using the device.
- Do not dismantle the housing or modify the module to avoid electrical shock or burn.
- Use supplies or parts meeting the product's specifications to revent damage or malfunction.
- Avoid exposing the unit to rain, moisture, or water.
- Install the device in a well-ventilated place.
- Avoid twisting or pulling forcefully on the CAT5e/CAT6a cable.
- Avoid using liquid or aerosol cleaners for cleaning. Always unplug the power before cleaning.
- Unplug the power cord when the device is not in use for an extended period.
- Refer all servicing to qualified service personnel.

Installation:

1. Connect the HDBT input connector to the RJ45 input connector.
2. Connect the HDMI output connector to the display device.
3. Connect the IR input and output connectors if required for remote control.
4. Connect the power supply to the DC 24V input.

5. Ensure proper ventilation around the device.

Operation:

1. Power on the device using the appropriate power source (24V DC or Power over Cable).
2. Select the desired video resolution on the source device.
3. Use the bi-directional IR pass-through for long-distance control if needed.
4. The device supports CEC for easy control of connected devices.

FAQ:

- **Q: What is the warranty period for the product?**

  A: We provide a limited warranty for three years. For more details, please contact your distributor.
- **Q: What is the maximum video resolution supported by the HDMI receiver?**

  A: The HDMI receiver supports video resolution up to 4Kx2K@60Hz 4:4:4.

Statement

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to real product.
This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated till April, 2019. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

Safety Precaution

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

- 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 to avoid electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Do not expose the unit to rain, moisture or install this product near water.
- Install the device in a place with fine ventilation.
- Do not twist or pull by force ends of the CAT5e/CAT6a 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.
- Refer all servicing to qualified service personnel.

Customer Service
We provide limited warranty for the product within three years. Please contact your distributor for more details.

Introduction

Thanks for choosing the VLHDMIMAT4X431-R receiver which is designed to receive HDMI signal from a

compatible transmitter and the transmission distance is up to 131ft/40m at 4K@60Hz 4:4:4 and up to 230ft/70m at 1080p over a single CATx Ethernet cable. It supports a bi-directional 24V Power over Cable (PoC), which allows the transmitter and the receiver can be powered from each other. It supports bi-directional IR pass-through extension, allowing for control of local video source device or the remote display. Moreover, it supports CEC pass-through. It also adopts a visually lossless video compression technology (VLC) to ensure the HD lossless transmission of 4K@60Hz 4:4:4.
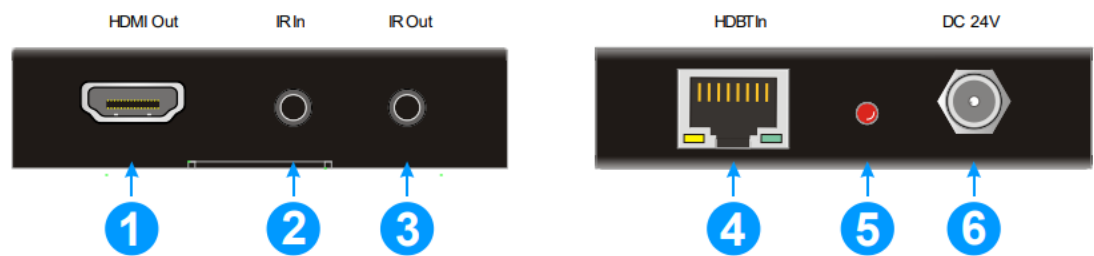
Features

- HDMI 2.0 standard and HDCP 2.2 compliant.
- Supports video resolution up to 4Kx2K@60Hz 4:4:4.
- Transmission distance is up to 131ft/40m for 4Kx2K, and 230ft/70m for 1080p.
- Supports bi-directional IR pass-through for long-distance control.
- Supports bi-directional 24V PoC.
- Supports CEC.
- Visually Lossless Compression (VLC) technology.

Package List

- 1x Receiver (RX)
- 1x User Manual
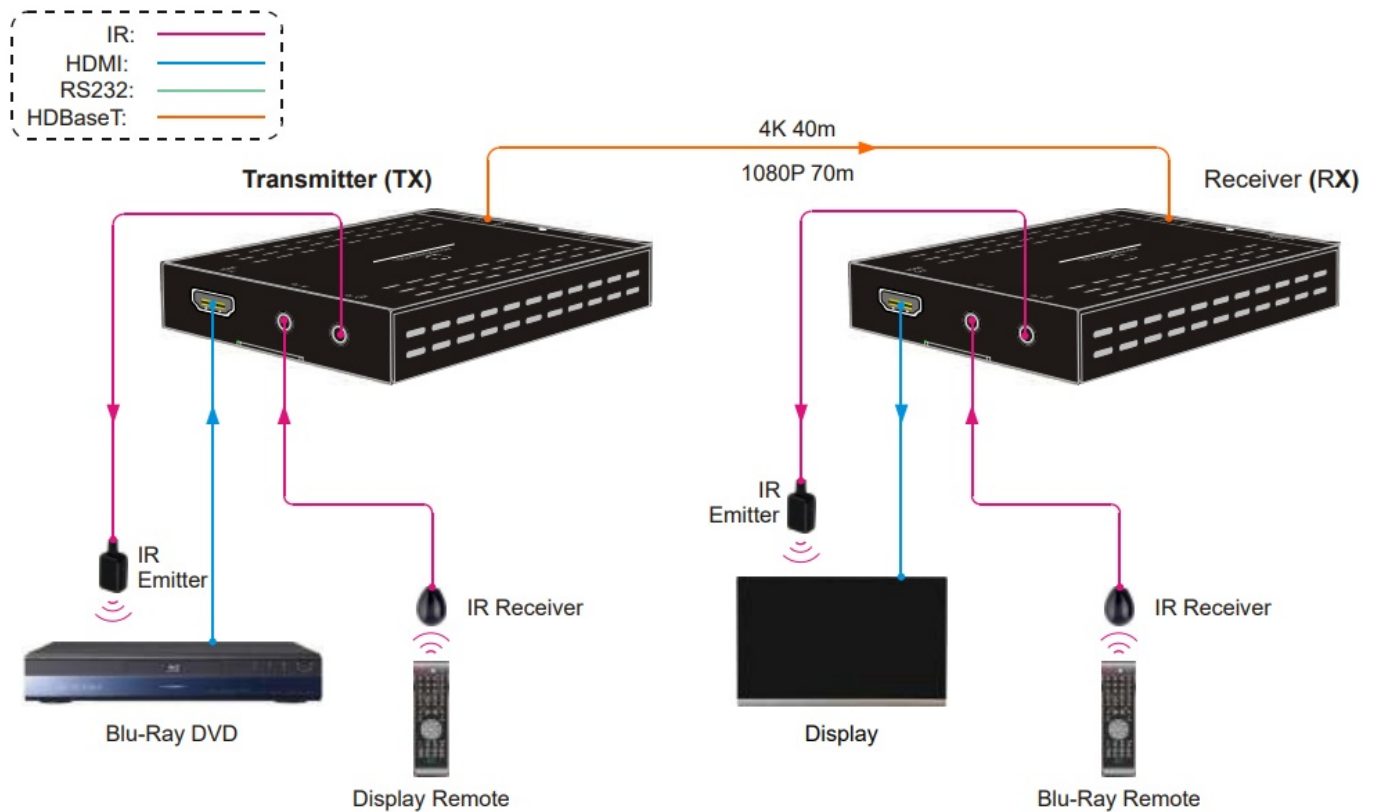- 2x Mounting Ears with 2 Screws

Panel Description

No.	Name	Description
①	HDMI Out	Type-A HDMI port to connect an HDMI display.
②	IR IN	3.5mm jack to connect an IR receiver (not included).
③	IR OUT	3.5mm jack to connect an IR emitter (not included).
④	HDBT In	RJ45 connector for a CATx Ethernet cable to connect the transmitter and the receiver. The **LINK LED** illuminates when there is a valid HDBaseT™ link between the transmitter and the receiver. The **HDCP LED** illuminates when the video contains HDCP content.
⑤	Power LED	Illuminates red when power is applied.
⑥	DC 24V	DC barrel connector to connect the AC power adapter.

Specification

Input	(1) HDBT
Input Connector	(1) RJ45
Output	(1) HDMI
Output Connector	(1) Female type-A HDMI
Control	(1) IR IN, (1) IR OUT
Control Connector	(2) 3.5mm mini jacks
General	
Video Resolution	Up to 4Kx2K@60Hz 4:4:4
Transmission Mode	HDBaseT
Transmission Distance	1080p@60Hz ≤ 230ft/70m, 4K@60Hz ≤131ft/40m
HDMI Version	2.0
HDCP Version	2.2
Bandwidth	18Gbps
Power Consumption	9.5W (Max)
Operating Temperature	-10℃ ~ +55℃
Storage Temperature	-25℃ ~ +70℃
Relative Humidity	10%-90%
Power Supply	Input Power: 24V DC 1.25A or Power over Cable (PoC), AC Adaptor Input Power: 100~240VAC, 50/60Hz
Dimension (W*H*D)	74mm x 18mm x 120mm
Net Weight (g)	235g

System Diagram

Note: This picture is for reference only. The specific scheme is subject to real devices.

Documents / Resources

VIVOLINk VLHDMIMAT4X431-R 4K HDMI Receiver [pdf] User Manual
VLHDMIMAT4X431-R 4K HDMI Receiver, VLHDMIMAT4X431-R, 4K HDMI Receiver, HDMI Receiver, Receiver

References

- **User Manual**