

PWAY HT129H

PWAY HT129H 4K HDMI KVM USB Extender User Manual

Model: HT129H

1. INTRODUCTION

The PWAY HT129H 4K HDMI KVM USB Extender is designed to extend HDMI video and audio signals, along with USB keyboard and mouse signals, over a single Cat5e/6/7 Ethernet cable. This device supports resolutions up to 4K@60Hz and can transmit signals up to 328 feet (100 meters). It includes a local HDMI loop-out port on the transmitter and supports IR remote control for enhanced flexibility in various environments such as home theaters, security monitoring, and conference rooms.



Image: Two PWAY HT129H extender units, highlighting 100m/328ft range, IR control, K/M control, and 4K@60Hz capabilities.

2. PRODUCT FEATURES

- Supports video resolutions up to 4K@60Hz, compatible with 4K@30Hz, 1080p, and 1080i.
- Supports HDMI2.0 and screen formats YUV444 and RGB444.
- Extends audio/video signals up to 328 feet (100 meters) over a single Cat5e/6/7 network cable.
- Designed with two USB ports on the receiver for connecting a keyboard and mouse.
- Includes one HDMI loop-out port on the transmitter for connecting a local monitor.
- Comes with a set of IR cables for remote control functionality.

3. PACKAGE CONTENTS

Please check the package contents upon receipt to ensure all items are present and undamaged:

- 1x HT129H Transmitter Unit
- 1x HT129H Receiver Unit
- 1x USB Cable
- 1x IR Cable Set (IR Blaster and IR Receiver)
- 2x Power Adapters
- 1x Warranty Card
- 1x User Manual (this document)
- 1x Industrial Terminal Block Socket Set

Product list

- 
- 1.HT129 1 set
 - 2.USB Cable 1 Pcs
 - 3.IR Cable 1 set
 - 4.Power Adapter 2 Pcs
 - 5.Warranty Card
 - 6.User's manual
 - 7.Industrial terminal block socket 1 set

Image: Contents of the PWAY HT129H package, including extender units, cables, power adapters, and documentation.

4. PRODUCT DIAGRAM

4.1 Transmitter Unit (TX)

The transmitter unit connects to your HDMI source device and features a local loop-out for a nearby display.

- **HDMI IN:** Connects to your HDMI source (e.g., PC, TV Box).
- **HDMI OUT (Loop):** Connects to a local HDMI display.
- **IR OUT:** Connects to the IR Blaster cable to control the source device.
- **USB:** Connects to the USB port of your source device for KVM functionality.
- **RJ45 (LAN):** Connects to the Cat5e/6/7 cable for extension to the receiver.
- **DC 12V:** Power input.
- **LED Indicators:** Power, Link, Status.

4.2 Receiver Unit (RX)

The receiver unit connects to your remote HDMI display and provides USB ports for keyboard and mouse.

- **HDMI OUT:** Connects to your remote HDMI display.
- **IR IN:** Connects to the IR Receiver cable to receive signals from a remote control.
- **USB (K/M):** Two USB ports for connecting a keyboard and mouse.
- **RJ45 (LAN):** Connects to the Cat5e/6/7 cable from the transmitter.
- **DC 12V:** Power input.
- **LED Indicators:** Power, Link, Status.

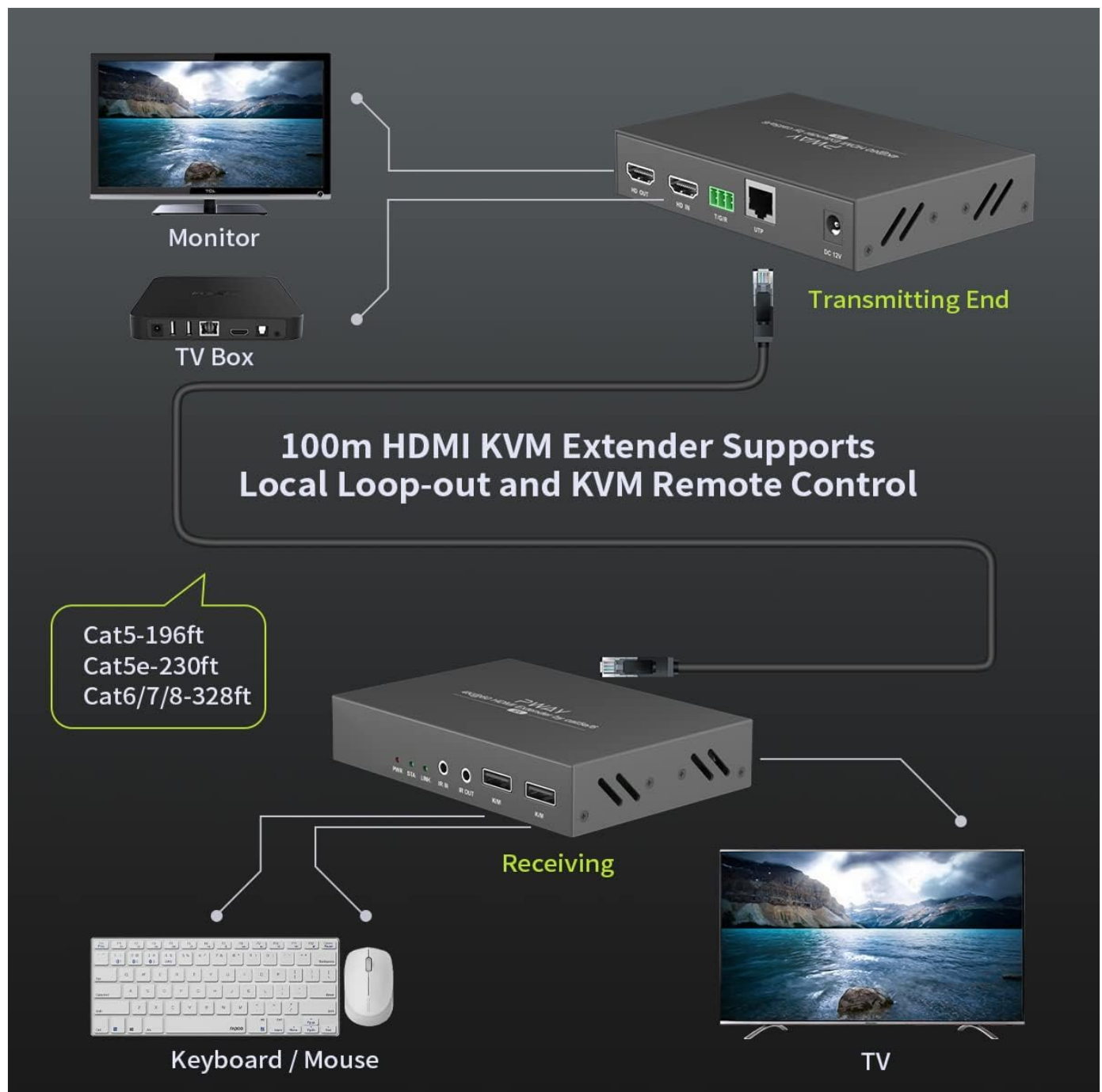


Image: Diagram illustrating the connection setup for the PWAY HT129H, showing the transmitting end connected to a monitor and TV box, and the receiving end connected to a TV, keyboard, and mouse via a Cat cable.

5. SETUP INSTRUCTIONS

Follow these steps to set up your PWAY HT129H extender:

1. **Connect HDMI Source to Transmitter:** Use an HDMI cable to connect your HDMI source device (e.g., computer, media player) to the **HDMI IN** port on the Transmitter (TX) unit.
2. **Connect Local Display (Optional):** If you wish to have a local display near your source, connect an HDMI cable from the **HDMI OUT (Loop)** port on the TX unit to your local monitor.
3. **Connect USB to Source:** Connect the provided USB cable from the USB port on the TX unit to a USB port on your HDMI source device. This enables KVM functionality.
4. **Connect Remote Display to Receiver:** Use an HDMI cable to connect your remote HDMI display (e.g., TV, monitor) to the **HDMI OUT** port on the Receiver (RX) unit.

5. **Connect Keyboard and Mouse:** Connect your USB keyboard and mouse to the **USB (K/M)** ports on the RX unit.
6. **Connect Cat Cable:** Connect a single Cat5e, Cat6, or Cat7 Ethernet cable between the **RJ45 (LAN)** port on the TX unit and the **RJ45 (LAN)** port on the RX unit. Ensure the cable is properly terminated (standard IEEE-T568B recommended) and does not exceed 328 feet (100 meters).
7. **Connect IR Cables (Optional):**
 - Connect the IR Blaster cable to the **IR OUT** port on the TX unit and place the IR emitter near the IR sensor of your source device.
 - Connect the IR Receiver cable to the **IR IN** port on the RX unit and place the IR receiver in a location where it can receive signals from your remote control.
8. **Apply Power:** Connect the two provided 12V DC power adapters to the **DC 12V** input ports on both the TX and RX units, then plug them into power outlets. The Power LED indicators on both units should illuminate.
9. **Verify Connection:** Once powered, the Link LED on both units should illuminate, indicating a successful connection over the Cat cable. The Status LED will indicate data transmission.

6. OPERATING INSTRUCTIONS

After successful setup, the PWAY HT129H extender operates automatically.

6.1 Video and Audio Transmission

The extender will transmit the HDMI video and audio signal from your source device to the remote display. If a local display is connected to the TX unit's loop-out, it will also display the same content.



**Maximum resolution
4K*2K@60Hz, support picture
format YUV 4:4:4 and RGB 4:4:4**

Image: A large screen displaying high-resolution 4K@60Hz content, demonstrating the maximum resolution capability of the extender.

6.2 KVM Functionality (Keyboard and Mouse)

The USB ports on the RX unit allow you to control your source device remotely using a standard USB keyboard and mouse. Ensure the USB cable is connected between the TX unit and your source device.

Support Keyboard and Mouse Remote Control Transmitter **NO Delay**



Image: A desk setup with two monitors, a keyboard, and a mouse connected to the PWAY extender, illustrating support for keyboard and mouse remote control with no delay.

6.3 IR Remote Control

If the IR cables are connected, you can use your source device's original remote control at the remote display location. Point the remote at the IR Receiver connected to the RX unit, and the signal will be transmitted back to the IR Blaster at the TX unit to control your source device.



On the receiver side, the output of the signal source can be remotely controlled through the infrared function.

Support infrared remote control

Image: A remote control pointing towards the PWAY extender, with a large screen displaying a space scene, indicating support for infrared remote control of the signal source.

7. MAINTENANCE

To ensure optimal performance and longevity of your PWAY HT129H extender, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the units. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure the units are placed in a well-ventilated area to prevent overheating. Do not block ventilation openings.
- **Power:** Use only the provided power adapters. Disconnect power during electrical storms or when unused for long periods.
- **Environment:** Avoid exposing the units to extreme temperatures, humidity, or direct sunlight.

8. TROUBLESHOOTING

If you encounter issues with your PWAY HT129H extender, refer to the following troubleshooting steps:

1. **No Video/Audio Output:**
 - Check all HDMI cable connections between source, TX, RX, and displays.
 - Ensure the Cat5e/6/7 cable is securely connected to both TX and RX units and is not damaged. Verify the Link LED is illuminated.
 - Confirm both TX and RX units are powered on and their Power LEDs are illuminated.
 - Try a different HDMI source or display to rule out compatibility issues.
 - Ensure the resolution of your source device is supported (up to 4K@60Hz).
2. **KVM (Keyboard/Mouse) Not Working:**
 - Verify the USB cable is connected from the TX unit to the source device.
 - Ensure the keyboard and mouse are connected to the correct USB ports on the RX unit.
 - Test the keyboard and mouse directly with the source device to confirm they are functional.
 - Note: This extender may be finicky with certain USB devices. USB hubs or wireless gamepad adapters may not be supported. It is primarily designed for standard USB keyboards and mice.
3. **IR Remote Control Not Working:**
 - Check that the IR Blaster and IR Receiver cables are correctly connected to the TX and RX units, respectively.
 - Ensure the IR Blaster's emitter head is directly over the IR sensor of your source device.
 - Confirm the IR Receiver is positioned to receive signals from your remote control.
 - Verify the remote control has working batteries.
4. **Intermittent Signal/Flickering:**
 - Check the quality and length of your Cat5e/6/7 cable. A higher quality (e.g., Cat6 or Cat7) cable is recommended for longer distances and higher resolutions.
 - Ensure the cable is not run near sources of strong electromagnetic interference.
 - Note: This extender does not support HDR or Variable Refresh Rate (VRR/G-Sync). Attempting to use these features may result in black screens or flickering.

9. SPECIFICATIONS

Feature	Specification
Model	HT129H
Video Resolution	Up to 4K@60Hz (4:4:4), compatible with 4K@30Hz, 1080p, 1080i
HDMI Standard	HDMI 2.0
Transmission Distance	Up to 328ft (100m) over Cat5e/6/7 cable
USB Ports	2x USB 2.0 for Keyboard/Mouse on Receiver
Loop Out	1x HDMI Loop Out on Transmitter
IR Control	Supports IR pass-through

Power Supply	DC 12V (2x adapters included)
Color	Black
Dimensions (per unit)	Approximately 8.78 x 5.63 x 3.07 inches (Package Dimensions)
Item Weight	1.78 pounds
Operating Mode	Manual
Connectivity Protocol	Ethernet

10. WARRANTY INFORMATION

PWAY products are designed and manufactured to the highest quality standards. This product is covered by a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions, or contact PWAY customer support for details.

11. SUPPORT

For technical assistance, troubleshooting, or product inquiries, please contact PWAY customer support. You can find contact information on the PWAY official website or through the retailer where you purchased the product.

PWAY Official Website: [Visit the PWAY Store on Amazon](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question