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› PWAYTEK HDMI Extender Over IP User Manual

PWAYTEK PW-DT236

PWAYTEK HDMI Extender Over IP User Manual

Model: PW-DT236

INTRODUCTION

The PWAYTEK HDMI Extender Over IP is designed to transmit high-definition audio and video signals over long distances using standard network cables. This device supports transmission up to 150 meters (492 feet) via Cat5e/Cat6/Cat7/Cat8 network cables, offering flexible deployment options including direct connection and one-to-many distribution via a network switch. It also features a local loop-out port for convenient monitoring at the source.

SAFETY INFORMATION

- Ensure all connections are secure before powering on the device.
- Use only the provided power adapters.
- Do not expose the device to moisture, extreme temperatures, or direct sunlight.
- Avoid disassembling the unit; refer servicing to qualified personnel.
- Keep the device away from strong electromagnetic interference.

PACKAGE CONTENTS



The package includes all necessary components for setting up your HDMI extender system. Please verify that all items listed

below are present and in good condition:

- 1 x HDMI Extender Transmitter (TX)
- 1 x HDMI Extender Receiver (RX)
- 2 x Power Adapters (5VDC/2A)
- 1 x User Manual

PRODUCT OVERVIEW



The PWAYTEK HDMI Extender system consists of two main units: a Transmitter (TX) and a Receiver (RX). Both units are compact and designed for efficient signal transmission over network cables.

Transmitter (TX) Unit

- **HDMI IN:** Connects to your HDMI source device (e.g., PC, Blu-ray player).
- **HDMI OUT (Loopout):** Allows connection to a local display for monitoring the source signal.
- **RJ45 (CATx):** Connects to the network cable for signal transmission to the Receiver.
- **DC 5V:** Power input port.
- **PWR LED:** Power indicator light.
- **STA LED:** Status indicator light.

Receiver (RX) Unit

- **HDMI OUT:** Connects to your display device (e.g., TV, projector).
- **RJ45 (CATx):** Connects to the network cable from the Transmitter or network switch.
- **DC 5V:** Power input port.
- **PWR LED:** Power indicator light.
- **STA LED:** Status indicator light.

SETUP AND INSTALLATION

Before proceeding with the installation, please perform the following checks:

- Set the output resolution of your signal source not higher than your display's maximum resolution. The extender supports a maximum resolution of 1920x1080P@60Hz.
- Connect your source device directly to your display to confirm they have image output without the extender.

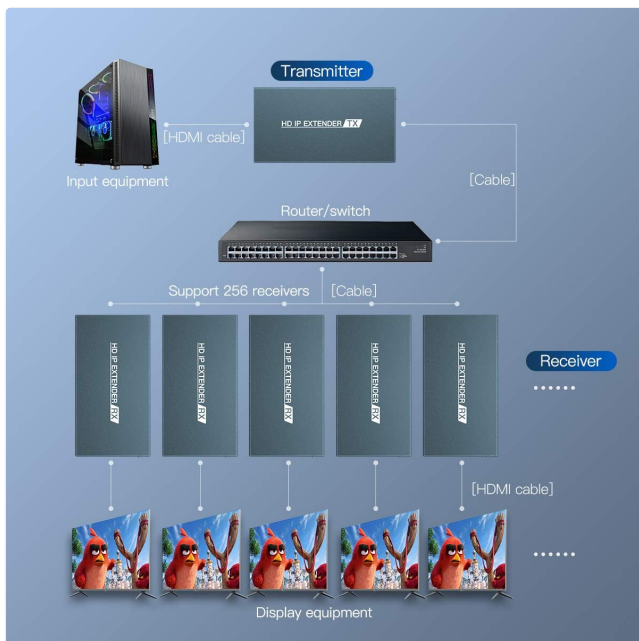
Connection Methods

1. Direct Connection (One-to-One)

This is the simplest setup for extending an HDMI signal to a single display.

1. Connect your HDMI source (e.g., DVD player, PC) to the **HDMI IN** port of the Transmitter (TX) unit using an HDMI 1.3 cable (recommended within 15 feet).
2. Connect your display device (e.g., TV, projector) to the **HDMI OUT** port of the Receiver (RX) unit using an HDMI cable.
3. Connect the **RJ45** port of the Transmitter (TX) to the **RJ45** port of the Receiver (RX) using a single Cat5e/Cat6/Cat7/Cat8 network cable. The maximum transmission distance is 150m (492ft) for Cat5e/6/7 and 120m (400ft) for Cat5. Ensure the Ethernet cable is crimped using the 568B standard (white orange, orange, white green, blue, white blue, green, white brown, brown).
4. Connect the provided 5VDC power adapters to both the Transmitter (TX) and Receiver (RX) units and plug them into power outlets.
5. Verify that the PWR and STA LEDs on both units are illuminated, indicating proper power and signal status.

2. One-to-Multiple Connection via Network Switch



This method allows you to distribute a single HDMI source to multiple displays using a standard Ethernet switch. The system supports up to 253 receivers.

1. Connect your HDMI source to the **HDMI IN** port of the Transmitter (TX) unit.
2. Connect the **RJ45** port of the Transmitter (TX) to an available port on your network switch.
3. For each display, connect an HDMI Extender Receiver (RX) unit. Connect the **RJ45** port of each Receiver (RX) to an available port on the same network switch.
4. Connect each display device to the **HDMI OUT** port of its respective Receiver (RX) unit.
5. Connect the provided 5VDC power adapters to all Transmitter (TX) and Receiver (RX) units and plug them into power outlets.
6. Ensure all PWR and STA LEDs are active.

Note: For optimal performance in a one-to-multiple setup, it is recommended to use a dedicated network switch for the extender system to avoid potential network congestion or IP conflicts with other network traffic. If IP conflicts occur, please consult the troubleshooting section or contact support.

OPERATING INSTRUCTIONS

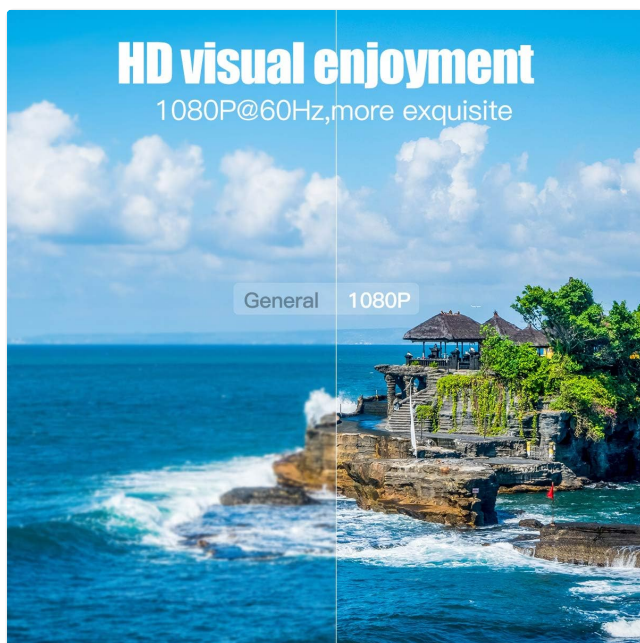
Local Loop Out Function



The Transmitter (TX) unit is equipped with an **HDMI OUT** port, also known as a local loop-out. This feature allows you to connect a local display directly to the transmitter, enabling you to monitor the source signal at the transmission point without interrupting the extended signal to the remote receiver(s).

To use this feature, simply connect an HDMI cable from the **HDMI OUT** port on the TX unit to your local monitor.

Resolution and Data Transmission



The PWAYTEK HDMI Extender supports a maximum input and output resolution of 1920x1080P@60Hz, ensuring high-definition visual quality. It is backward compatible with lower resolutions. The system supports a maximum pixel clock of 165MHz and a maximum data transfer rate of 6.75Gbps.

For optimal performance, ensure your source device's output resolution is set to 1080P@60Hz or lower, and that your display device supports this resolution.

TROUBLESHOOTING

If you encounter issues while using the PWAYTEK HDMI Extender, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No image on display.	No power to TX/RX units. Incorrect HDMI cable connection. Faulty network cable or connection. Source/display resolution incompatibility. HDMI cable length exceeds recommendation.	Check if power adapters are connected and PWR LEDs are on. Ensure HDMI cables are securely connected to correct ports (IN on TX, OUT on RX). Verify network cable is properly crimped (568B standard) and securely connected. Test with a different cable if possible. Adjust source resolution to 1080P@60Hz or lower. Use HDMI 1.3 cables within 15 feet.
Flickering image or intermittent signal.	Poor quality network cable. Network cable too long. Interference on the network. IP conflict in one-to-many setup.	Use high-quality Cat5e/Cat6/Cat7/Cat8 cables. Ensure cable length is within specified limits (150m for Cat5e/6/7, 120m for Cat5). Minimize other network traffic if using a shared switch. Consider a dedicated switch. If using a smart switch, ensure it's configured correctly or try a simple unmanaged switch.
One-to-many setup not working.	Network switch issues. IP address conflicts.	Ensure the network switch is functioning correctly and all ports are active. If using a managed switch, ensure IGMP snooping is enabled if available, or try an unmanaged switch. The devices are designed to assign different IPs automatically. If issues persist, try power cycling all units and the switch.

SPECIFICATIONS

Feature	Detail
Video	
HDMI Version	HDMI 1.3
Max Resolution Support	1920x1080P@60Hz, 3D
Max Pixel Clock	165MHz
Max Data Transfer Rate	6.75Gbps
Ethernet	
Interface	RJ45
Transmission Distance (Cat5e/6/7)	Up to 150m (492ft)
Transmission Distance (Cat5)	Up to 120m (400ft)
Network Protocol	IP/TCP

Feature	Detail
Multi-Receiver Support	Up to 253 receivers via switch
General	
Power Supply	5VDC/2A (Max working voltage)
Operating Temperature	-5 to +70 °C (23 to 158 °F)
Dimensions (L x W x H)	81 x 43 x 23 mm (3.19 x 1.69 x 0.91 inches)
Weight	250 g (8.82 oz)

MAINTENANCE

To ensure the longevity and optimal performance of your PWAYTEK HDMI Extender, please follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Do not use liquid or aerosol cleaners.
- **Environment:** Store and operate the device in a cool, dry place, away from direct sunlight, heat sources, and excessive dust.
- **Connections:** Periodically check all cable connections (HDMI, Ethernet, power) to ensure they are secure and free from damage.
- **Ventilation:** Ensure the ventilation slots on the units are not blocked to prevent overheating.

WARRANTY AND SUPPORT

Specific warranty information for this product is not provided in the available data. For warranty claims, technical support, or further assistance, please contact PWAYTEK customer service through the retailer where the product was purchased or refer to the contact information provided on the product packaging or the official PWAYTEK website.

If you experience IP conflicts or other technical issues not covered in the troubleshooting section, please reach out to the manufacturer's support team for specialized guidance.

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