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PWAY PW-HT226P2 1x2 Port HDMI Splitter Extender User Manual

Model: PW-HT226P2 | Brand: PWAY

INTRODUCTION

The PWAY PW-HT226P2 is a 1x2 Port HDMI Splitter Extender designed to distribute a single HDMI source to two remote displays over Cat5/5e/6/7 Ethernet cables, extending the signal up to 50 meters (165 feet). It supports Full HD 1080P resolution at 60Hz and features Power over Cable (POC) for simplified power management and EDID copy functionality for enhanced compatibility.



Image: The PWAY PW-HT226P2 HDMI Splitter Extender system, showing the main transmitter unit and two receiver units.

PRODUCT FEATURES

- **Extended Transmission:** Transmits HDMI video and audio signals without latency up to 50 meters (165 feet) over a single Cat5/5e/6/7 Ethernet cable.
- **Dual Local Outputs:** The transmitter unit includes two local HDMI outputs for connecting displays directly, in addition to the two RJ45 ports for extended connections.
- **High Resolution Support:** Supports resolutions up to 1920x1080P at 60Hz, and is backward compatible with 1080i, 720P, and 720i.
- **Power over Cable (POC):** Only one power adapter is required to power both the transmitter and receiver units, simplifying installation and reducing cable clutter.
- **EDID Copy Function:** Equipped with EDID (Extended Display Identification Data) copy functionality to ensure optimal compatibility between the source device and connected displays.
- **HDMI 1.3 Compliant:** Ensures compatibility with a wide range of HDMI devices.



Image: Overview of the PWAY HDMI Extender Splitter 1x2, highlighting key features such as 3D support, 1080P resolution, 50m extension, and POC.

PACKAGE CONTENTS

Please check the package contents upon unpacking. If any items are missing or damaged, contact your retailer.

- 1x HDMI Splitter Extender Transmitter (TX)
- 2x HDMI Splitter Extender Receiver (RX)
- 1x DC 5V Power Adapter
- 1x User Manual (this document)

Packing List :



Transmitter X1



Receiver X2

Power adapter X1

Image: The complete packing list, including the transmitter, two receivers, and the power adapter.

PRODUCT DIAGRAM

Transmitter (TX) Unit

The transmitter unit connects to your HDMI source and distributes the signal.

- **DC 5V:** Power input port.
- **HDMI IN:** Connect to your HDMI source (e.g., DVD player, game console).
- **HDMI OUT (Loop):** Two local HDMI outputs for connecting displays directly to the transmitter.
- **Cat5/6/7:** Two RJ45 output ports for connecting to the receiver units via Ethernet cable.
- **STATUS LED:** Indicates operational status.
- **EDID LED:** Indicates EDID status.
- **POWER LED:** Indicates power status.

Receiver (RX) Unit

The receiver units connect to your displays and receive the extended HDMI signal.

- **Cat5/6/7:** RJ45 input port for connecting to the transmitter unit via Ethernet cable.
- **HDMI OUT:** Connect to your display device (e.g., TV, monitor).
- **STA LED:** Indicates signal status.
- **PWR LED:** Indicates power status.

Only **ONE** Power Adapter Support

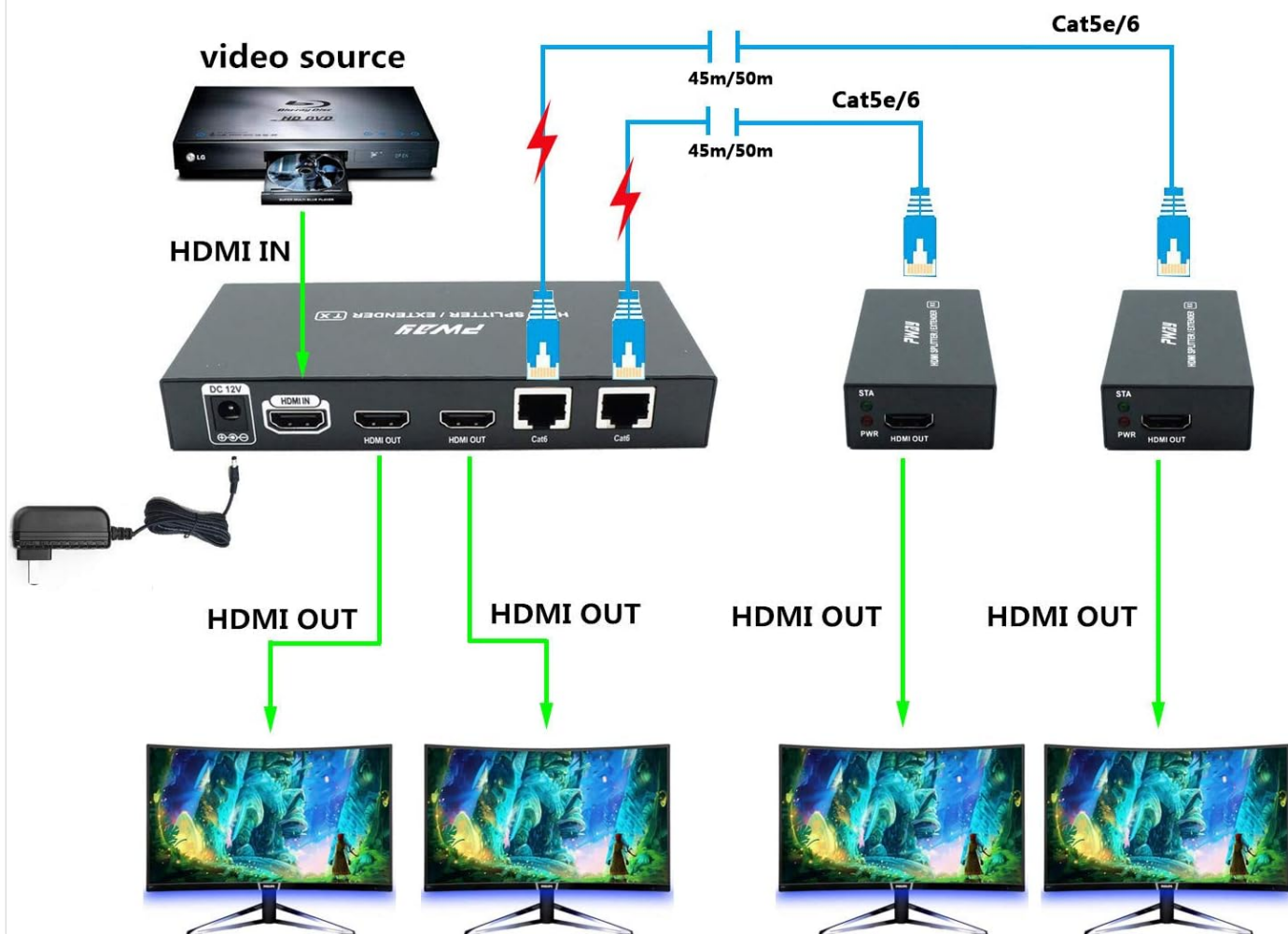


Image: A detailed connection diagram illustrating how to connect the video source, transmitter, Cat5e/6 cables, receivers, and multiple display devices.

SETUP INSTRUCTIONS

1. **Power Off Devices:** Ensure all devices, including the HDMI source, displays, and the PWAY extender units, are powered off before beginning installation.
2. **Connect HDMI Source:** Connect your HDMI source device (e.g., Blu-ray player, PC, game console) to the **HDMI IN** port on the Transmitter (TX) unit using a high-quality HDMI cable.
3. **Connect Local Displays (Optional):** If you wish to use local displays, connect them to the **HDMI OUT (Loop)** ports on the Transmitter (TX) unit using HDMI cables.
4. **Connect Ethernet Cables:** Connect Cat5e/6/7 Ethernet cables from the **Cat5/6/7** output ports on the Transmitter (TX) unit to the **Cat5/6/7** input ports on each Receiver (RX) unit. Ensure the cables are properly terminated and meet the specified length requirements for your desired resolution (up to 50m for 1080P).

5. **Connect Remote Displays:** Connect your remote display devices (e.g., TV, monitor) to the **HDMI OUT** port on each Receiver (RX) unit using HDMI cables.
6. **Apply Power:** Connect the provided DC 5V power adapter to the **DC 5V** port on the Transmitter (TX) unit. Due to the POC function, the receiver units will be powered via the Ethernet cable.
7. **Power On Devices:** Power on the HDMI source device, then the displays, and finally the PWAY extender units.



Image: An example setup showing the transmitter connected to a source and two remote displays via receiver units.

Transfer different distances according to different network cable types



Cat5-40m

Cat5e-45m

Cat6/7-50m

Image: A chart indicating the maximum transmission distances based on the type of network cable used: Cat5 up to 40m, Cat5e up to 45m, and Cat6/7 up to 50m.

OPERATING INSTRUCTIONS

Once all connections are made and power is applied, the system should operate automatically.

- **Signal Detection:** The extender units will automatically detect the HDMI input signal and transmit it to the connected displays.
- **LED Indicators:**
 - **Transmitter (TX):** The POWER LED should be lit when power is supplied. The STATUS LED and EDID LED will indicate active signal and EDID status respectively.

- **Receiver (RX):** The PWR LED should be lit, indicating power received via POC. The STA LED will indicate active signal reception.
- **EDID Management:** The EDID copy function ensures the source device outputs a compatible resolution and audio format for the connected displays. No manual configuration is typically required.

MAINTENANCE

To ensure optimal performance and longevity of your PWAY HDMI Splitter 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.
- **Cable Management:** Keep cables organized and avoid sharp bends or excessive tension, which can damage cables and ports.
- **Environmental Conditions:** Avoid exposing the units to extreme temperatures, humidity, or direct sunlight.

TROUBLESHOOTING

If you encounter issues with your HDMI Splitter Extender, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No video or audio on display.	<ul style="list-style-type: none"> ◦ Loose cable connections. ◦ Incorrect power supply. ◦ Incompatible resolution. ◦ Damaged HDMI or Ethernet cable. 	<ul style="list-style-type: none"> ◦ Check all HDMI and Ethernet cable connections. ◦ Ensure the power adapter is securely connected to the TX unit and receiving power. ◦ Try connecting the source directly to the display to verify source/display functionality. ◦ Replace cables if suspected to be faulty. ◦ Power cycle all devices (source, extender, display).
Poor picture quality or flickering.	<ul style="list-style-type: none"> ◦ Long or low-quality Ethernet cable. ◦ Interference. 	<ul style="list-style-type: none"> ◦ Use Cat6 or Cat7 cables for longer distances. ◦ Ensure Ethernet cables are not run near high-power electrical cables. ◦ Reduce cable length if possible.
Receiver unit not powering on.	<ul style="list-style-type: none"> ◦ No power to TX unit. ◦ Faulty Ethernet cable (no POC). 	<ul style="list-style-type: none"> ◦ Verify the TX unit is powered on and its POWER LED is lit. ◦ Check the Ethernet cable connecting the TX and RX units for damage.

SPECIFICATIONS

Model	PW-HT226P2
Brand	PWAY
HDMI Compliance	HDMI 1.3

HDCP Compliance	HDCP 1.2
Supported Resolutions	Up to 1080P@60Hz (1920x1080), 1080i, 720P, 720i
Transmission Distance	Up to 50m (165ft) over Cat5e/6/7 cable
Ethernet Cable Requirements	Cat5/5e/6/7 (UTP/STP)
Power Supply	DC 5V (via included adapter)
Features	POC (Power over Cable), EDID Copy, Dual Local HDMI Outputs

SAFETY INFORMATION

- Do not disassemble or modify the device.
- Use only the provided power adapter.
- Keep the device away from water, moisture, and extreme temperatures.
- Avoid dropping or subjecting the device to strong impacts.
- Ensure proper ventilation to prevent overheating.

WARRANTY AND SUPPORT

PWAY products are designed for reliability and performance. For warranty information or technical support, please refer to the warranty card included with your product or visit the official PWAY website. You may also contact your retailer for assistance. Please retain your proof of purchase for warranty claims.