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PWAY PW-HT202P HDMI Extender User Manual

Model: PW-HT202P

1. INTRODUCTION

The PWAY PW-HT202P HDMI Extender is designed to extend HDMI video and audio signals over long distances using a single Cat5e/Cat6 network cable. This device supports high-definition resolutions up to 1080P at 60Hz and incorporates Power Over Cable (POC) and EDID learning functions for enhanced compatibility and ease of use. It is suitable for various applications including home theater systems, surveillance security, multimedia teaching, and outdoor displays.



This image displays the PWAY HDMI Extender set, consisting of a Transmitter (TX) unit and a Receiver (RX) unit. Both units are black, compact, and feature HDMI input/output ports, a DC 5V power input, and an RJ45 port for the Cat5e/Cat6 cable.

The TX unit has an 'HDMI IN' port and the RX unit has an 'HDMI OUT' port.

2. PRODUCT FEATURES

- Transmission Distance:** Extends HDMI video and audio signals up to 50 meters (165 feet) using a single Cat5e/Cat6 network cable.
- Power Over Cable (POC) Function:** Requires only one power adapter connected to either the Transmitter (TX) or Receiver (RX) unit to power both devices, simplifying installation.
- EDID Learning Function:** Automatically learns display parameters via EDID, ensuring higher compatibility with various display devices and complex application environments.
- High Definition Resolution:** Supports a maximum resolution of 1920x1080P at 60Hz after transmission over the network cable.
- Stable and Secure Operation:** Features an integrated automatic balancing system for clear, smooth, and stable image transmission. Includes built-in ESD electrostatic protection for system safety.



This image shows the PWAY HDMI Extender TX and RX units in a setup, with text overlays emphasizing key features: 164 feet (50 meters) transmission distance, no signal delay, Power Over Cable (POC) functionality, and support for 1080P at 60Hz resolution.

3. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1x PWAY PW-HT202P HDMI Extender Set (1 Transmitter unit, 1 Receiver unit)
- 1x Power Adapter
- 1x User's Manual
- 1x Warranty Card



This image displays the complete product list included in the package: one set of PWAY PW-HT202P HDMI Extenders (TX and RX units), one power adapter, one warranty card, and one user's manual.

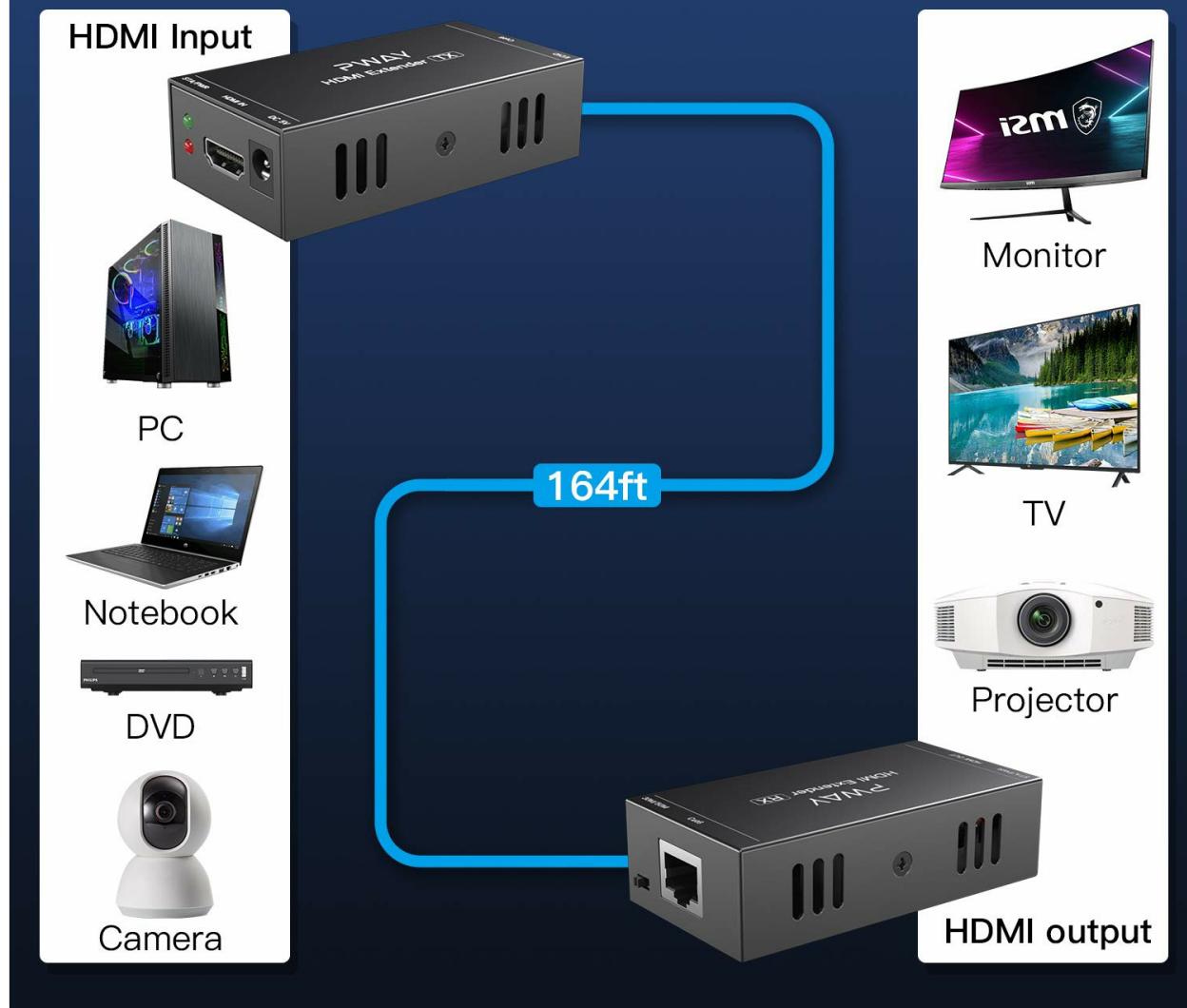
4. SETUP INSTRUCTIONS

4.1. Connection Diagram

Follow these steps to connect your HDMI Extender:

1. Connect your HDMI source device (e.g., PC, laptop, DVD player, game console) to the **HDMI IN** port of the Transmitter (TX) unit using an HDMI cable.
2. Connect a Cat5e/Cat6 network cable (up to 50 meters / 165 feet) between the **RJ45 port** on the TX unit and the **RJ45 port** on the Receiver (RX) unit.
3. Connect your HDMI display device (e.g., monitor, TV, projector) to the **HDMI OUT** port of the Receiver (RX) unit using an HDMI cable.
4. Connect the provided power adapter to the **DC 5V** port on either the TX or RX unit. Due to the POC function, only one power adapter is needed for the entire system.

Transmission of audio and video signals through a network cable
the longest distance can reach 164ft



A diagram showing how to connect the PWAY HDMI Extender. An HDMI source device (PC, Notebook, DVD, Camera) connects to the Transmitter (TX) unit's HDMI input. The TX unit connects to the Receiver (RX) unit via a Cat5e/Cat6 network cable (up to 164ft/50m). The RX unit's HDMI output connects to a display device (Monitor, TV, Projector).

4.2. Power Over Cable (POC) Function

The PW-HT202P features Power Over Cable (POC) technology. This means that only one power adapter is required to power both the Transmitter (TX) and Receiver (RX) units. You can connect the power adapter to either the TX unit or the RX unit, and power will be transmitted through the Cat5e/Cat6 cable to the other unit.



Support POC Function

The transmitting end is connected to the power supply, and the voltage is transmitted to the receiving end through the network cable, and the receiving end does not need to be connected to the power supply

This image illustrates the Power Over Cable (POC) function. A single power adapter is connected to the Transmitter (TX) unit. The power is then transmitted through the network cable to the Receiver (RX) unit, eliminating the need for a separate power supply for the RX unit.

4.3. Cable Length Adjustment

The Receiver (RX) unit is equipped with a switch to optimize performance based on the length of your network cable. Adjust this switch according to your cable length:

- **Left Position:** For network cable lengths between 1 and 30 meters.
- **Right Position:** For network cable lengths between 30 and 50 meters.

Ensure the switch is set correctly for the best signal quality and stability.

**When using network cables of different lengths,
you need to adjust the 30m/50m button on the device**



A close-up view of the PWAY HDMI Extender Receiver (RX) unit, highlighting a small switch labeled '30M/50M'. This switch allows users to adjust the signal for optimal performance based on the length of the network cable used: 'Left: 1-30m' for shorter distances and 'Right: 30-50m' for longer distances.

5. OPERATING INSTRUCTIONS

Once all connections are securely made and the power adapter is connected, the HDMI Extender system should operate automatically. Ensure all connected devices (source and display) are powered on.

- **Power On Sequence:** It is generally recommended to power on the HDMI source device first, then the PWAY HDMI Extender units, and finally the display device.
- **EDID Learning:** The EDID learning function automatically adapts to your display's capabilities. No manual configuration is typically required for EDID.
- **Indicator Lights:** Observe the status indicator lights on the TX and RX units. These lights typically indicate power status and signal connection. Refer to the device labels for specific light meanings.

6. TROUBLESHOOTING

If you encounter issues, please refer to the following troubleshooting steps:

- **No Image on Display:**

- Ensure all HDMI and Cat5e/Cat6 cables are securely connected.
- Verify that the power adapter is connected and both TX and RX units are receiving power (check indicator lights).
- Confirm that the HDMI source device and display device are powered on and functioning correctly.
- Check the 30m/50m switch on the RX unit is set to the correct position for your cable length.
- Try connecting the HDMI source directly to the display to confirm they work independently.

- **Poor Image Quality (Flickering, Distortion, No Color):**

- Ensure you are using a high-quality Cat5e or Cat6 cable. Lower quality or damaged cables can affect signal integrity.
- Verify the Cat5e/Cat6 cable length does not exceed 50 meters (165 feet).
- Adjust the 30m/50m switch on the RX unit to the appropriate setting.
- Reduce the resolution of the source device if possible, to see if the issue is resolution-related.

- **No Audio:**

- Check the audio settings on your display device.
- Ensure the HDMI cable connections are secure.

7. SPECIFICATIONS

Brand	PWAY
Model Number	PW-HT2020P-1-EU
Connector Type	HDMI
Cable Type	HDMI, Ethernet (Cat6)
Compatible Devices	Television, Monitor, Blu-ray Player, Game Console
Special Features	EDID Learning Function, POC Function
Recommended Uses	Home Theater, Long-distance HDMI Signal Transmission, Multiple Device Connection
Ethernet Cable Category	Category 6
Color	Black
Connector Gender	Female to Male
Data Transfer Rate	6.75 Gigabits per second
Maximum Resolution	1920x1080P @ 60Hz
Maximum Transmission Distance	50 meters (165 feet)
Dimensions (Package)	13.9 x 11.4 x 6.7 cm
Weight (Package)	350 grams

8. MAINTENANCE

To ensure the longevity and optimal performance of your PWAY PW-HT202P HDMI Extender, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the units. Avoid using liquid cleaners or aerosols, which may damage the components.
- **Environment:** Store and operate the extender in a cool, dry place, away from direct sunlight, heat sources, and excessive moisture.
- **Handling:** Handle the units with care. Avoid dropping or subjecting them to strong impacts.
- **Cables:** Ensure all cables are not bent sharply or pinched, as this can damage the internal wiring and affect signal transmission.

9. WARRANTY AND SUPPORT

This product comes with a warranty card included in the package. Please refer to the warranty card for specific terms and conditions regarding warranty coverage and duration. For technical support or further assistance, please contact your retailer or the manufacturer's customer service.