

GREATHTEK PW-HT226P4

GREATHTEK 1x4 HDMI Extender Splitter (Model PW-HT226P4) User Manual

Model: PW-HT226P4 | Brand: GREATHTEK

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your GREATHTEK 1x4 HDMI Extender Splitter. This device is designed to extend HDMI audio/video signals to multiple displays over Cat5e/Cat6/Cat7 Ethernet cables, supporting resolutions up to 1080P@60Hz over distances up to 50 meters (165 feet).

Please read this manual thoroughly before using the product to ensure proper setup and optimal performance. Keep this manual for future reference.

2. PRODUCT FEATURES

- **Extended Transmission Range:** Extends HDMI audio/video signals up to 50 meters (165 feet) at 1080p@60Hz using Cat5e/Cat6/Cat7 Ethernet cables.
- **Audio Support:** Supports surround sound up to 7.1-channel or stereo digital audio.
- **HDCP Compliance:** Compatible with HDCP compliant devices and content.
- **Simple Installation:** Driver-free setup with automatic signal feedback, equalization, and amplification.
- **Durable Design:** Features a surface-mountable metal housing for durability and reduced EMI/RFI noise interference.
- **EDID Management:** EDID copy function recognizes display device parameters for optimal source matching.
- **Power Over Cable (POC):** Only one power adapter is required at the transmitter (TX) unit to power the entire system, simplifying installation.
- **High Compatibility:** Built-in automatic adjustment and ESD protection systems ensure stable and clear transmission quality across various display devices.
- **Versatile Applications:** Suitable for education, outdoor/indoor LED displays, video conferencing, multimedia home theaters, and more.

Powerful and practical functions

HDMI SPLITTER / EXTENDER

50M(165Ft) _ extension

EDID _ Copy

1080P _ @60Hz

POC _ Power over cables,more convenient



Image: The GREATHEK HDMI Extender Splitter showcasing its key features: 50-meter extension, 1080P@60Hz support, and Power Over Cable (POC) functionality.

3. PACKAGE CONTENTS

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

- 1x HDMI 1x4 Extender Transmitter Unit
- 4x HDMI Extender Receiver Units
- 1x Power Adapter (DC 12V)
- 1x User Manual
- 1x Warranty Card

Packing list



Receiver × 2



Power Adapter ×1



Warranty Card



User Manual

Image: Visual representation of the package contents, including the main extender unit, four receiver units, power adapter, user manual, and warranty card.

4. SETUP INSTRUCTIONS

Follow these steps to set up your HDMI Extender Splitter:

- 1. Connect HDMI Source:** Connect your HDMI source device (e.g., PC, TV Box, DVD player, game console) to the HDMI IN port on the Transmitter Unit using a high-quality HDMI cable.
- 2. Connect Ethernet Cables:** Connect Cat5e/Cat6/Cat7 Ethernet cables from the Cat6 output ports on the Transmitter Unit to the Cat6 input ports on each of the four Receiver Units. Ensure the cables are securely plugged in.
- 3. Connect HDMI Displays:** Connect each Receiver Unit to its respective HDMI display (e.g., TV, monitor) using high-quality HDMI cables.
- 4. Power On:** Connect the provided DC 12V power adapter to the Transmitter Unit. Due to the Power Over Cable (POC) function, the Receiver Units will draw power directly from the Transmitter Unit via the Ethernet cables and do not require separate power adapters.

5. **Verify Connection:** Once all connections are made and power is supplied, check the STATUS and POWER indicator lights on both the Transmitter and Receiver units. A stable light indicates a successful connection.

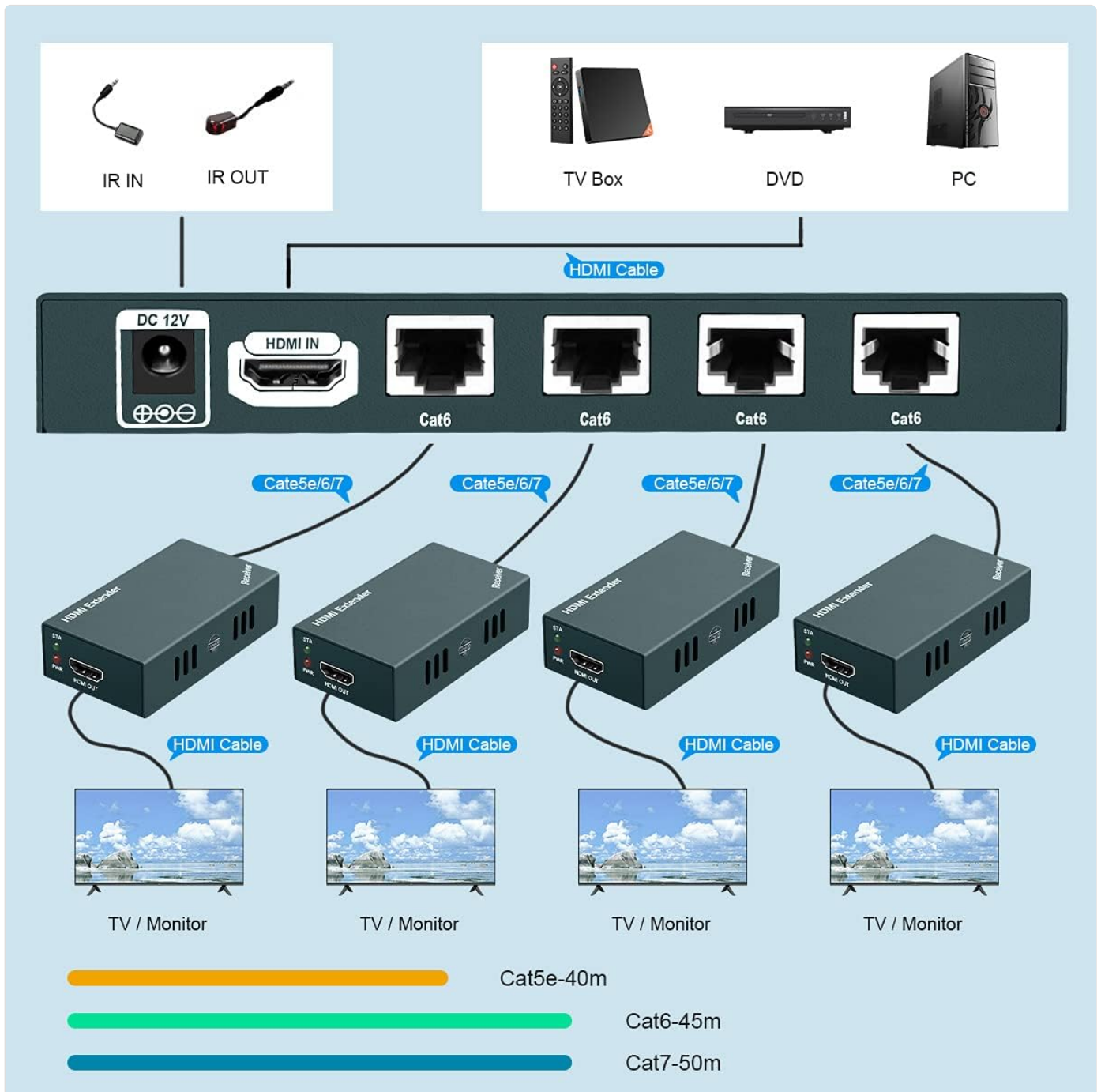


Image: A detailed connection diagram illustrating how to connect the HDMI source to the transmitter, the transmitter to multiple receivers via Cat5e/6/7 cables, and each receiver to a display.

5. OPERATING INSTRUCTIONS

After successful setup, operating the HDMI Extender Splitter is straightforward:

- **Power On Devices:** Ensure your HDMI source device and all connected displays are powered on.
- **Source Selection:** Select the correct HDMI input on your displays to view the content from the HDMI source.
- **Automatic Adjustment:** The extender splitter features an automatic adjustment system that optimizes the signal quality based on cable length and display characteristics. No manual configuration is typically required for video output.
- **EDID Management:** The EDID copy function automatically detects and matches the display's EDID information to the source, ensuring compatibility and optimal resolution.

- **Indicator Lights:**

- **POWER LED (Transmitter):** Illuminates when the unit receives power.
- **STATUS LED (Transmitter/Receivers):** Illuminates when a stable HDMI signal is detected and transmitted/received.
- **EDID LED (Transmitter):** Indicates EDID status.



Image: A close-up view of the indicator lights on the extender unit, showing the STATUS, EDID, and POWER LEDs.

6. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Do not use liquid cleaners or aerosols, as they may damage the device.
- **Ventilation:** Ensure the units are placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Cable Management:** Keep all cables neatly organized and avoid sharp bends or excessive tension, which can damage the cables or ports.
- **Environmental Conditions:** Operate the device within recommended temperature and humidity ranges. Avoid extreme temperatures or direct sunlight.
- **Power Disconnection:** Disconnect the power adapter from the main unit if the device will not be used for an extended period.

7. TROUBLESHOOTING

If you encounter issues with your HDMI Extender Splitter, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
No video output on display.	No power to transmitter. Loose HDMI or Ethernet cables. Incorrect input selected on display. Faulty HDMI or Ethernet cable. Incompatible resolution/refresh rate.	Ensure power adapter is connected and POWER LED is on. Check all HDMI and Ethernet cable connections. Select the correct HDMI input on your display. Try different HDMI or Ethernet cables. Ensure source output is 1080p@60Hz or lower.

Problem	Possible Cause	Solution
Flickering or unstable video.	Poor quality Ethernet cable. Cable length exceeds maximum. Interference.	Use high-quality Cat5e/Cat6/Cat7 cables. Ensure cable length is within 50m (165ft). Keep units and cables away from strong electromagnetic sources.
No audio.	Audio settings on source/display. Faulty HDMI cable.	Check audio output settings on your source device and input settings on your display. Try a different HDMI cable.
STATUS LED not lit on receiver.	No signal from transmitter. Faulty Ethernet cable.	Verify transmitter is powered and receiving HDMI signal. Check Ethernet cable connection and integrity.

If the problem persists after trying these solutions, please contact GREATHTEK customer support for further assistance.

8. SPECIFICATIONS

Feature	Detail
Model Number	PW-HT226P4
HDMI Version	Supports 1080P@60Hz, 3D
Transmission Distance	Up to 50m (165ft) over Cat5e/Cat6/Cat7 cable
Supported Audio Formats	7.1-channel surround sound, stereo digital audio
HDCP Compliance	Yes
EDID Management	EDID Copy function
Power Supply	DC 12V (Transmitter only, POC for receivers)
Housing Material	Metal
Weight	0.91 Kilograms (Total package weight)
Certifications	FCC, CE, RoHS compliant

9. WARRANTY INFORMATION

This GREATHTEK product comes with a limited warranty. Please refer to the included Warranty Card in your package for specific terms, conditions, and duration of the warranty. Retain your proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact GREATHTEK customer support. Contact information can typically be found on the product packaging, the included warranty card, or the official GREATHTEK website.

"Please don't hesitate to contact with us if you have any questions on our product, we will provide you a satisfied solution on time."

