DONGJIAN mmpl-hdmiextender

DONGJIAN HDMI Extender Over Cat6 User Manual

Model: mmpl-hdmiextender

1. Product Overview

The DONGJIAN HDMI Extender allows for the transmission of high-resolution video and audio signals over a single Cat5e/6/7 Ethernet cable. It supports 1080p resolution up to 196 feet (60 meters) and includes EDID copy and Power Over Cable (POC) functions. This extender is suitable for various applications requiring long-distance HDMI signal transmission, such as home theaters, conference rooms, and digital signage.



Figure 1: DONGJIAN HDMI Extender in a typical conference room setup.

2. Package Contents

Please verify that all items are present in your package:

- 1x HDMI Extender Sender Unit (TX)
- 1x HDMI Extender Receiver Unit (RX)
- 2x DC 5V Power Adapters
- 1x User Manual
- Mounting accessories (if included)



Figure 2: Contents included in the DONGJIAN HDMI Extender package.

3. Product Features

- **Extended Transmission:** Transmits HDMI video and audio signals up to 196 feet (60 meters) over a single Cat5e/6/7 Ethernet cable.
- **High Resolution Support:** Supports resolutions up to 1080p at 60Hz, ensuring clear and distortion-free video.
- **EDID Copy Function:** Allows the extender to automatically detect and copy the display's EDID information for optimal compatibility and signal quality.
- **Power Over Cable (POC):** Only one power adapter is required to power both the sender and receiver units, simplifying installation.
- **Audio Format Support:** Compatible with DTS-HD, Dolby-true HD, DTS, Dolby-AC3, and DSD audio formats.
- **High Compatibility:** Features a built-in automatic adjustment system and ESD protection, compatible with various devices such as PCs, game consoles, Blu-ray players, and media players.
- **Versatile Applications:** Ideal for educational settings, outdoor/indoor LED displays, video conferences, and multimedia home theaters.

4. Specifications

Product Dimensions	3.2 x 1.7 x 0.9 inches (8.15 x 4.35 x 2.3 cm)
Item Weight	13.4 ounces (380 grams)

Model Number	mmpl-hdmiextender
HDMI Version	Supports 1080p, 3D, HDCP
Transmission Distance	Up to 196ft (60m) over Cat5e/6/7 cable
Power Supply	DC 5V (POC function supported)
Audio Support	DTS-HD/Dolby-true HD/DTS/Dolby-AC3/DSD

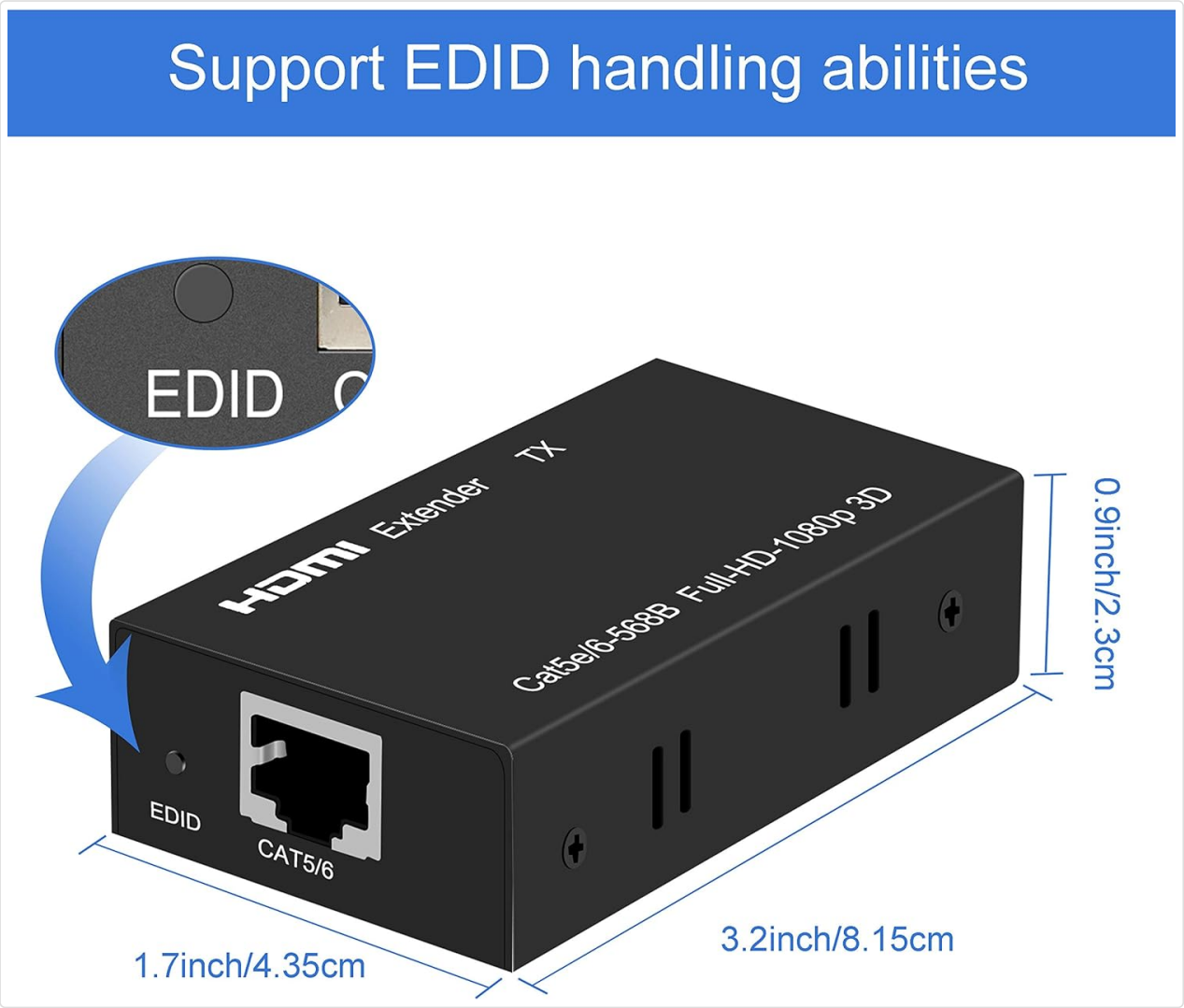


Figure 3: DONGJIAN HDMI Extender unit dimensions.

5. Setup Instructions

Follow these steps to set up your DONGJIAN HDMI Extender:

1. **Connect the HDMI Source to the Sender (TX) Unit:**
   Connect an HDMI cable from your source device (e.g., laptop, PC, game console, Blu-ray player) to the HDMI IN port on the Sender (TX) unit.
2. **Connect the Display to the Receiver (RX) Unit:**
   Connect an HDMI cable from your display device (e.g., HDTV, projector, monitor) to the HDMI OUT port on the Receiver (RX) unit.
3. **Connect Sender and Receiver with Ethernet Cable:**
   Use a single Cat5e, Cat6, or Cat7 Ethernet cable to connect the CAT5/6 port on the Sender (TX) unit to the CAT5/6

port on the Receiver (RX) unit. For optimal performance and maximum distance, an oxygen-free copper Cat6 cable is recommended.

4. **Apply Power:**
   Connect one of the provided DC 5V power adapters to either the Sender (TX) unit or the Receiver (RX) unit. Due to the Power Over Cable (POC) function, only one unit needs to be powered. The other unit will receive power through the Ethernet cable.

5. **Verify Connection:**
   Once all connections are made and power is supplied, check the Status LED indicators on both units. A solid light typically indicates a successful connection and signal transmission.

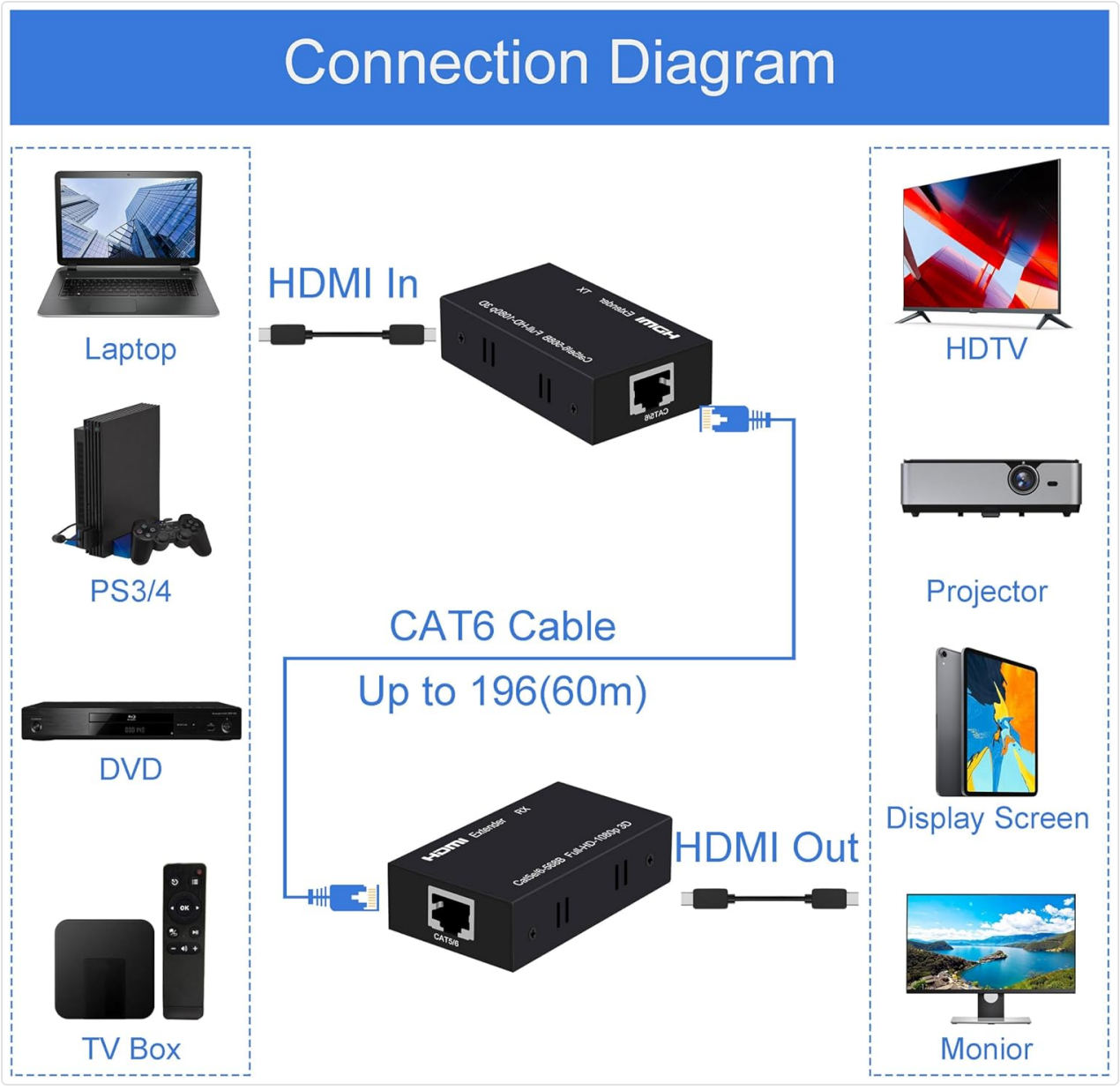


Figure 4: Connection Diagram for the DONGJIAN HDMI Extender.



Figure 5: Example setup for the HDMI Extender.

Your browser does not support the video tag.

Video 1: HDMI Extender Installation Guide. This video demonstrates the physical connection process for the DONGJIAN HDMI Extender units.

6. Operating Instructions

The DONGJIAN HDMI Extender is designed for plug-and-play operation. Once all connections are securely made and power is supplied, the extender will automatically detect the input signal and transmit it to the connected display.

- Ensure both the source device and the display device are powered on.
- The Status LED on both the Sender (TX) and Receiver (RX) units should illuminate, indicating active power and signal transmission.
- The display connected to the Receiver (RX) unit should show the video and audio from the source device.

7. EDID Copy Function

The EDID (Extended Display Identification Data) copy function ensures optimal compatibility between your source device and display. EDID contains information about the display's capabilities, such as supported resolutions and audio formats. The DONGJIAN HDMI Extender can copy this information from the connected display to the source device.
To utilize the EDID copy function:

1. Ensure the display is connected to the Receiver (RX) unit and powered on.
2. Locate the EDID button on the Sender (TX) unit.
3. Press and hold the EDID button for approximately 3-5 seconds until the Status LED blinks, indicating that the EDID information is being copied from the display.
4. Release the button. The Status LED will return to a solid state once the EDID copy is complete. This process helps the source device recognize the display's optimal settings.



Figure 6: EDID button on the Sender unit.

8. Troubleshooting

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

- **No Picture or Signal:**
  - Ensure all HDMI and Ethernet cables are securely connected.
  - Verify that the power adapter is connected to either the Sender or Receiver unit and that the Status LED is illuminated.
  - Check if the HDMI source device and display are powered on and set to the correct input.
  - Try a different HDMI cable or Ethernet cable to rule out cable issues.
  - Perform the EDID copy function (refer to Section 7).
  - Reduce the length of the Ethernet cable if it exceeds the recommended maximum distance (196ft/60m).
- **Picture Flickering or Intermittent Signal:**
  - Ensure you are using a high-quality Cat6 or Cat7 Ethernet cable, preferably oxygen-free copper.
  - Check for any kinks or damage in the Ethernet cable.
  - Verify that the resolution of the source device is supported by the extender and the display (up to 1080p).
  - Ensure there are no strong electromagnetic interference sources near the cables or units.
- **No Audio:**
  - Check the audio settings on your source device and display.
  - Ensure the HDMI cables are fully inserted.
  - Confirm that the audio format is supported by the extender (DTS-HD, Dolby-true HD, DTS, Dolby-AC3, DSD).

9. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to clean the units. Avoid using liquid or aerosol cleaners, as they may damage the device.
- **Storage:** Store the extender in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the units and cables with care. Avoid bending or kinking the cables excessively.
- **Ventilation:** Ensure the units have adequate ventilation to prevent overheating. Do not block any ventilation openings.

10. Warranty and Support

The DONGJIAN HDMI Extender comes with a **1-year free warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable operation of your device.
For technical support, troubleshooting assistance, or warranty claims, please contact DONGJIAN customer service. Our professional engineers are available to answer your questions and provide support within 12 hours.
Please refer to the contact information provided on the product packaging or the official DONGJIAN website for the most up-to-date support details.