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> [E-link](#) /

> E-link Mini 4K HDMI Extender (LNK-109M) User Manual

## E-link LNK-109M

# E-link Mini 4K HDMI Extender (LNK-109M) User Manual

Model: LNK-109M

## 1. INTRODUCTION

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The E-link Mini 4K HDMI Extender (Model LNK-109M) is designed to transmit uncompressed 4K HDMI signals over a single-core multimode fiber optic cable. This device allows for extended transmission distances up to 300 meters (984 feet) without signal degradation, making it ideal for various professional and home entertainment applications.

### Key Features:

- Supports Ultra HD 4K resolution at 60Hz, backward compatible with lower resolutions.
- Uncompressed signal transmission up to 300m (984ft) over OM4 multi-mode fiber with no delay or loss.
- Supports EDID (Extended Display Identification Data) for screen adaptation and HDCP (High-bandwidth Digital Content Protection) for video encryption.
- Compact and miniature design for easy installation and space-saving.
- Constructed from durable aluminum material for high temperature resistance.

# Ultra Small Size

Easy to Install & Save Space



Image: The E-link Mini 4K HDMI Extender units, highlighting their ultra-small size and dimensions (57mm x 16mm x 14mm).

# 4K\*2K@60Hz

Supports standard HDMI2.0a

Video support up to 4K\*2K@60Hz Resolution



Image: A television screen demonstrating support for 4K@60Hz resolution, indicating the extender's high-definition capability.

## 2. PACKAGE CONTENTS

Please check the package contents upon unboxing to ensure all items are present and undamaged. If any items are missing or damaged, please contact your vendor.

- 1 x HDMI Transmitter Unit (Orange)
- 1 x HDMI Receiver Unit (Green)
- 1 x Instruction Manual
- 2 x USB Power Cables

Your browser does not support the video tag.

Video: This video demonstrates the product's features, how to use it, and the items included in the package, such as the transmitter and receiver units, instruction manual, and USB power cables.

## 3. SPECIFICATIONS

<b>Model Number</b>	LNK-109M
<b>Resolution Support</b>	Up to 4K@60Hz (backward compatible)
<b>Transmission Distance</b>	Up to 300m (984ft) over OM4 Multi-mode Fiber
<b>HDMI Version</b>	HDMI 2.0
<b>HDCP Support</b>	Yes
<b>EDID Support</b>	Yes
<b>Product Dimensions (L x W x H)</b>	2.24 x 0.6 x 0.55 inches (57 x 16 x 14 mm)
<b>Item Weight</b>	4 ounces
<b>Material</b>	Aluminum
<b>Connector Type</b>	HDMI
<b>Color</b>	Black (Units are Orange and Green)

## 4. SETUP & INSTALLATION

Follow these steps to set up your E-link Mini 4K HDMI Extender:

- 1. Connect the Transmitter:** Plug the orange HDMI transmitter unit into the HDMI output port of your source device (e.g., laptop, DVR, Blu-ray player).
- 2. Connect the Receiver:** Plug the green HDMI receiver unit into the HDMI input port of your display device (e.g., TV, monitor, projector).
- 3. Connect Fiber Optic Cables:** Use two single-core multimode fiber optic cables to connect the transmitter unit to the receiver unit. Ensure the connections are secure.
- 4. Power Connection:** Connect the provided USB power cables to both the transmitter and receiver units, and then plug them into a suitable USB power source (e.g., USB port on your device, USB wall adapter).
- 5. Verify Connection:** Once all connections are made, power on your source and display devices. The extender should automatically establish the connection.

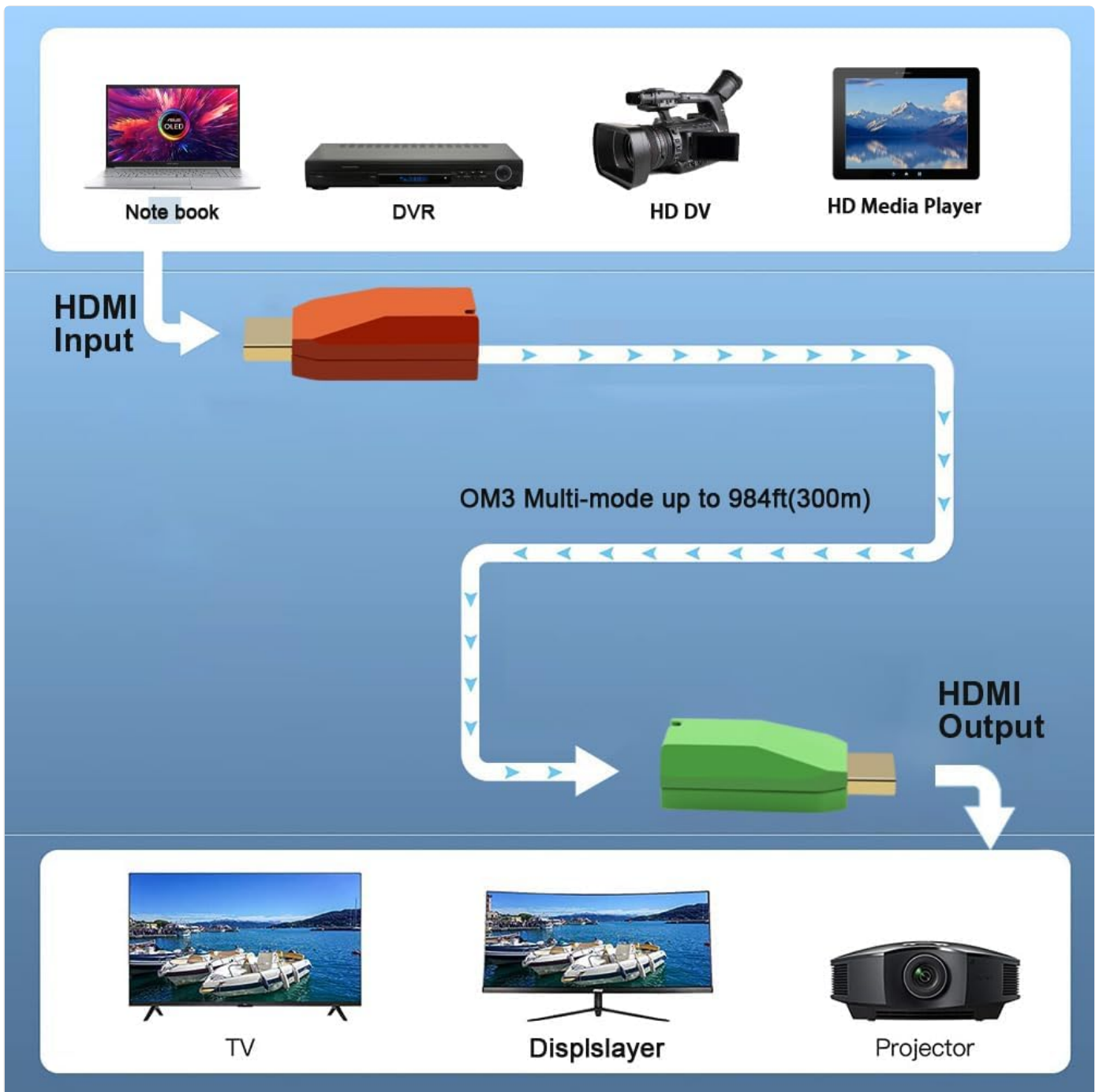


Image: A clear diagram illustrating the connection flow from a source device (e.g., notebook) via the orange HDMI input unit, through an OM3 multi-mode fiber cable up to 300m, to the green HDMI output unit, and finally to a display device (e.g., TV, display, projector).



*Image: An illustration showcasing the wide range of compatible devices, including notebooks, DVRs, Blu-ray players, HD DV cameras, displays, TVs, and projectors, demonstrating the extender's versatility.*

## 5. OPERATION

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The E-link Mini 4K HDMI Extender operates automatically once properly connected and powered. No additional software or drivers are required.

- Ensure your source device is outputting an HDMI signal.
- Select the correct HDMI input on your display device.
- The extender will transmit the video and audio signal from the source to the display.

The extender supports EDID, which allows the source device to automatically detect and adapt to the display's capabilities, ensuring optimal resolution and refresh rate.

## 6. MAINTENANCE

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

- Keep the units clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the units to extreme temperatures, humidity, or direct sunlight.
- Handle fiber optic cables with care. Avoid bending them sharply or applying excessive force, as this can damage the internal fibers.
- Ensure proper ventilation around the units to prevent overheating.
- Disconnect power when the device is not in use for extended periods.

## 7. TROUBLESHOOTING

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If you encounter issues with your E-link Mini 4K HDMI Extender, refer to the following troubleshooting steps:

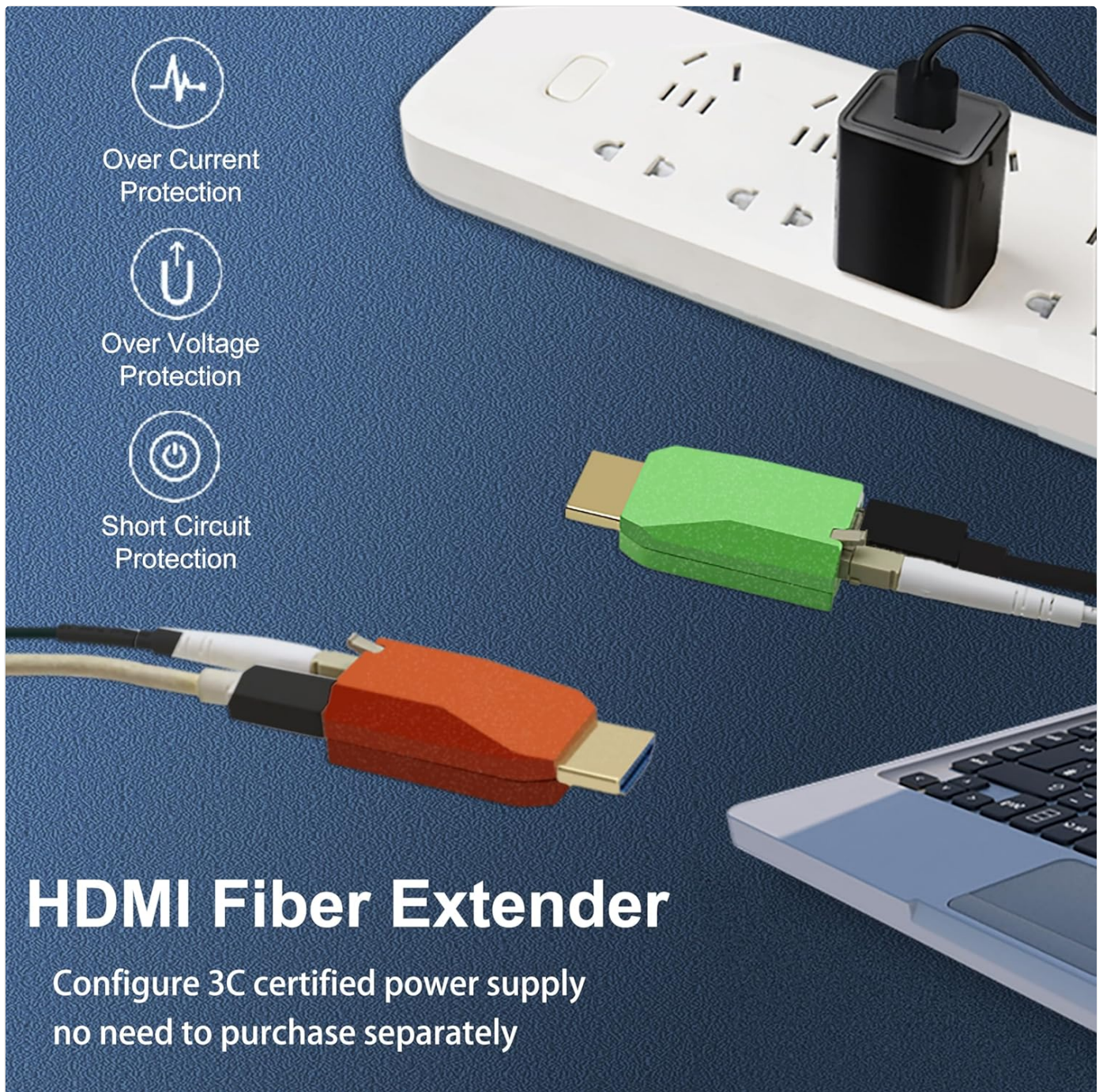
- **No Video/Audio Signal:**
  - Ensure both the transmitter and receiver units are properly powered via their USB cables.
  - Check all HDMI and fiber optic cable connections. Ensure they are securely plugged in.
  - Verify that the correct HDMI input is selected on your display device.
  - Test the source device and display device directly with a short HDMI cable to confirm they are functioning correctly.
  - Ensure the fiber optic cables are not damaged or excessively bent.
- **Poor Image Quality or Flickering:**
  - Check the quality of your fiber optic cables. Using high-quality OM4 multimode fiber is recommended for optimal performance over long distances.
  - Ensure the resolution and refresh rate settings on your source device are compatible with your display and within the extender's supported specifications (up to 4K@60Hz).
  - Verify that the power supply is stable for both units.
- **Intermittent Signal:**
  - Loose connections are a common cause. Re-seat all cables.
  - Check for any potential electromagnetic interference (EMI) if the cables are routed near other electronic devices.

## 8. SAFETY INFORMATION

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Please read and follow these safety precautions to prevent damage to the device and ensure user safety:

- Do not disassemble or modify the device. Unauthorized modifications can lead to electric shock, fire, or damage to the product.
- Use only the provided USB power cables or certified power supplies.
- Protect the device from water, moisture, and extreme temperatures.
- Avoid dropping or subjecting the device to strong impacts.
- Ensure proper ventilation to prevent overheating.
- The device is designed with built-in protections against overcurrent, overvoltage, and short circuits.



# HDMI Fiber Extender

Configure 3C certified power supply  
no need to purchase separately

*Image: The HDMI Fiber Extender units displayed alongside icons indicating built-in over current, over voltage, and short circuit protection, ensuring safe operation.*

## 9. WARRANTY AND SUPPORT

E-link products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or contact your authorized E-link dealer or customer support directly. Please retain your proof of purchase for warranty purposes.