FeinTech HX240

FeinTech HX240 HDMI 2.1 Extender

User Manual

1. INTRODUCTION

The FeinTech HX240 HDMI 2.1 Extender is designed to transmit HDMI 2.1 signals, including 4K 120Hz HDR, over long distances using a standard network cable (CAT6/7). This device is ideal for home theater, gaming, and office applications where high-resolution audio and video signals need to be extended without visible loss of quality or latency. It supports resolutions up to 4K 120Hz HDR over 30 meters and 4K 60Hz over 50 meters. The system includes a transmitter and a receiver unit, along with IR pass-through functionality for remote control of connected devices.

2. SAFETY INFORMATION

- Read all instructions carefully before operating the device.
- Do not expose the device to moisture, rain, or extreme temperatures.
- Use only the provided power adapters. Using unauthorized power sources may damage the device and void the warranty.
- Do not disassemble or attempt to repair the device. Refer all servicing to qualified personnel.
- Ensure proper ventilation around the units to prevent overheating.
- Keep the device away from strong magnetic fields.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x FeinTech HX240 Transmitter Unit
- 1x FeinTech HX240 Receiver Unit
- 1x IR Receiver Cable
- 1x IR Transmitter Cable
- 2x Power Adapters (DC 12V)
- 1x User Manual (this document)

Image: Contents of the FeinTech HX240 package, showing the transmitter and receiver units, two power adapters, and two IR cables.

4. PRODUCT OVERVIEW

The FeinTech HX240 system consists of two main units: a Transmitter (TX) and a Receiver (RX).

4.1. Transmitter Unit (TX)

The Transmitter unit connects to your HDMI source device (e.g., gaming console, PC, Blu-ray player). It features an HDMI input, an RJ45 output for the network cable, a DC 12V power input, and an IR OUT port for connecting the IR transmitter cable.

4.2. Receiver Unit (RX)

The Receiver unit connects to your HDMI display device (e.g., TV, projector, monitor). It features an HDMI output, an RJ45 input for the network cable, a DC 12V power input, and an IR IN port for connecting the IR receiver cable.

Image: The FeinTech HX240 HDMI Extender units, showing the Transmitter (left) and Receiver (right) with their respective labels and ports.

Image: Top-down view of the FeinTech HX240 Transmitter and Receiver units, highlighting the port layouts including HDMI, RJ45, Power, and IR ports.

5. SETUP AND INSTALLATION

Follow these steps to set up your FeinTech HX240 HDMI Extender:

1. **Connect the HDMI Source:** Connect an HDMI cable from your source device (e.g., PC, game console) to the **HDMI IN** port on the Transmitter (TX) unit.

2. **Connect the HDMI Display:** Connect an HDMI cable from your display device (e.g., TV, projector) to the **HDMI OUT** port on the Receiver (RX) unit.

3. **Connect the Network Cable:** Use a single high-quality CAT6 or CAT7 network cable to connect the **RJ45 OUT** port on the Transmitter (TX) unit to the **RJ45 IN** port on the Receiver (RX) unit. Ensure the cable is properly terminated and meets the required specifications for the desired distance and resolution.

4. **Connect IR Cables (Optional):**
   - To control the source device from the display location: Connect the IR Receiver cable to the **IR IN** port on the Receiver (RX) unit and place its eye near your display. Connect the IR Transmitter cable to the **IR OUT** port on the Transmitter (TX) unit and place its emitter eye near the IR sensor of your source device.

- To control the display device from the source location: Connect the IR Receiver cable to the **IR IN** port on the Transmitter (TX) unit and place its eye near your source device. Connect the IR Transmitter cable to the **IR OUT** port on the Receiver (RX) unit and place its emitter eye near the IR sensor of your display device.

5. **Apply Power:** Connect the two provided DC 12V power adapters to the **DC 12V** input ports on both the Transmitter (TX) and Receiver (RX) units. Plug the power adapters into electrical outlets.

6. **Power On:** Power on your HDMI source device and display device. The extender units are plug-and-play and should establish a connection automatically.

Image: A diagram illustrating the connection setup for the FeinTech HX240 HDMI Extender. A gaming console is connected to the Transmitter, which then connects via an Ethernet cable (CAT5e, CAT6, or CAT7) to the Receiver. The Receiver is connected to a 4K TV. IR cables are also shown connected for remote control pass-through.

6. OPERATING INSTRUCTIONS

The FeinTech HX240 HDMI Extender operates on a plug-and-play principle, requiring no special software or drivers. Once all connections are made and power is supplied, the units will automatically detect the signal and begin transmission.

6.1. Signal Transmission

The extender will transmit the HDMI signal from the source to the display. Ensure your source device is outputting a compatible resolution and refresh rate for your display and the extender's capabilities (up to 4K 120Hz HDR).

6.2. IR Pass-Through

The IR pass-through function allows you to control your source device from the display location or your display device from the source location using your existing remote control. Point your remote at the IR receiver eye, and the signal will be transmitted through the network cable to the IR emitter at the other end, controlling the respective device.

Image: The FeinTech HX240 Extender units shown in a gaming environment, illustrating their use for extending signals from a gaming console to a large TV.

Image: The FeinTech HX240 Extender units depicted in an office setting, demonstrating their utility for connecting a laptop to a large display in a conference room.

7. MAINTENANCE

The FeinTech HX240 Extender requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation openings on the units are not blocked. Proper airflow prevents overheating.
- **Storage:** If storing the device for an extended period, disconnect it from power and store it in a cool, dry place.

8. TROUBLESHOOTING

If you encounter issues with your FeinTech HX240 Extender, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No video or audio signal	Loose cable connections Incorrect power supply Incompatible resolution/refresh rate Faulty network cable	Check all HDMI and network cable connections. Ensure both TX and RX units are powered on. Verify source output resolution is compatible with display and extender. Test with a different, certified CAT6/7 cable.
Poor video quality (flickering, distortion)	Low quality or damaged network cable Cable length exceeds maximum Interference	Use a high-quality CAT6/7 cable. Ensure cable length is within specified limits (30m for 4K@120Hz, 50m for 4K@60Hz). Relocate units away from strong electromagnetic sources.
IR remote control not working	IR cables incorrectly connected IR emitter/receiver not positioned correctly Obstruction	Ensure IR receiver is connected to IR IN and IR emitter to IR OUT. Position the IR emitter directly over the IR sensor of the device to be controlled. Ensure no objects are blocking the IR signal path.
Units not powering on	Power adapters not connected Faulty power outlet	Verify power adapters are securely connected to units and outlets. Test power outlets with another device.

9. SPECIFICATIONS

Feature	Description
Model Number	HX240
HDMI Version	HDMI 2.1
Supported Resolutions	480i, 720p, 1080p, 2160p (up to 4K 120Hz)
Color Formats	YUV/RGB
HDR Support	SDR, HDR10
Audio Formats	PCM 2.0-7.1, Dolby Digital, Dolby Digital Plus (with Atmos), Dolby TrueHD, Dolby MAT, DTS, DTS-HD
Max Data Transfer Rate	32 Gbps
Transmission Distance (CAT6/7)	30m for 4K 120Hz HDR 50m for 4K 60Hz
IR Pass-through	Yes
Power Supply	DC 12V (2x included)
Dimensions (per unit)	Approx. 24.3 x 19.6 x 6 cm (packaged)

Feature	Description
Weight	Approx. 640 grams (packaged)

10. WARRANTY AND SUPPORT

FeinTech products are designed for reliability and performance. This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official FeinTech website.

If you require technical assistance, troubleshooting, or have questions regarding your FeinTech HX240 Extender, please contact FeinTech customer support through their official channels. Contact information can typically be found on the product packaging or the FeinTech website.

Related Documents - HX240

[FeinTech HX240 HDMI Extender: Instruction Manual for 4K 120Hz Latency-Free Transmission](#)
Detailed instruction manual for the FeinTech HX240 HDMI Extender, covering setup, features, safety, and technical specifications for high-resolution, low-latency audio-video signal transmission over network cables.

[FeinTech AX340 HDMI 2.1 eARC Pass Switch 4x1 - User Manual and Specifications](#)
Comprehensive user manual and technical specifications for the FeinTech AX340 HDMI 2.1 eARC Pass Switch 4x1. Learn about its features, installation, operation, safety, and connectivity for 8K Ultra-HD and eARC soundbars.

[FeinTech AX341 HDMI 2.1 eARC Splitter Switch: 8K HDR, VRR, Auto-Downscaling, Audio Output](#)
User manual and technical guide for the FeinTech AX341 HDMI 2.1 eARC Splitter Switch, covering installation, operation, features like 8K HDR, VRR, eARC audio, and troubleshooting.

	[FeinTech VAX04101 HDMI eARC Pass Switch 4x1: User Manual & Setup Guide](#) Comprehensive user manual and setup guide for the FeinTech VAX04101 HDMI eARC Pass Switch 4x1. Learn about installation, connections, audio formats, and troubleshooting for 4K HDR home theater systems.
	[FeinTech VAX04101 HDMI eARC Pass Switch 4x1 - Manual and Technical Information](#) This document provides comprehensive instructions and technical information for the FeinTech VAX04101 HDMI eARC Pass Switch 4x1. Learn about its features, installation, operation, troubleshooting, and specifications.
	[FeinTech VAX04201 HDMI eARC Pass Matrix Switch 4x2 Bedienungsanleitung](#) Umfassende Bedienungsanleitung und technische Informationen für den FeinTech VAX04201 HDMI eARC Pass Matrix Switch 4x2, einschließlich Funktionen, Installation, Bedienung, Fehlerbehebung und Spezifikationen.