

## FERRISA YYG-E-1

# FERRISA 4x2 HDMI Matrix Switch User Manual

Model: YYG-E-1

## 1. INTRODUCTION

The FERRISA 4x2 HDMI Matrix Switch is a versatile device designed to connect up to four HD source devices to two HDMI display terminals simultaneously. It offers advanced features such as optical fiber and stereo headphone audio output, supporting Ultra HD 4K, 3D 1080P, and HD audio. With smart EDID management and an IR remote control, this matrix switch provides an ideal solution for various applications including home theaters, offices, schools, conference rooms, shopping malls, hotels, and museums.

## 2. SAFETY INFORMATION

- Do not expose this unit to water, moisture, or excessive humidity.
- Do not install in areas with poor ventilation.
- Do not place heavy objects on the unit.
- Do not disassemble or attempt to repair the unit yourself. Refer all servicing to qualified personnel.
- Use only the provided power adapter.

## 3. PACKAGE CONTENTS

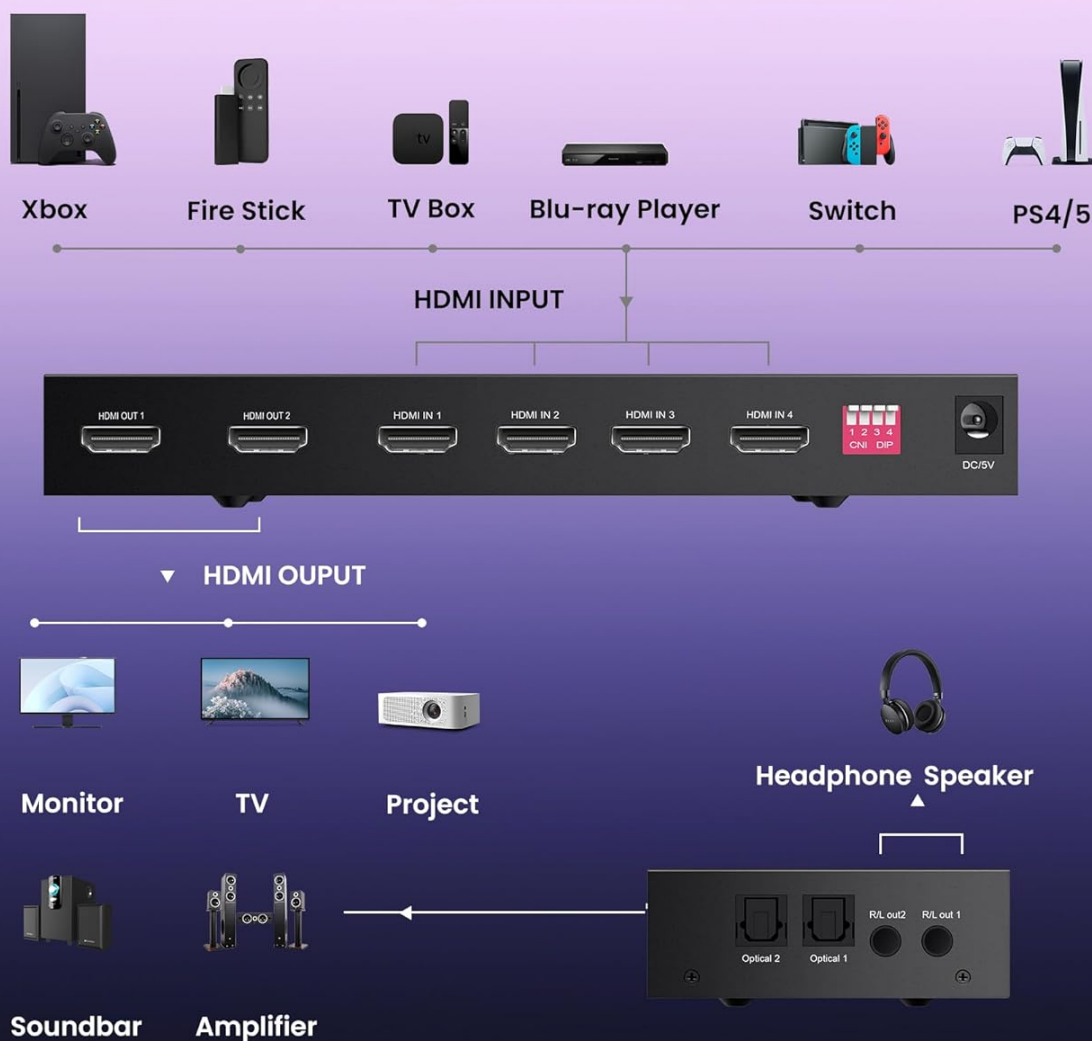
- 1 x FERRISA 4K HDMI Matrix 4 in 2 out
- 1 x IR Remote Control (AAA battery not included)
- 1 x Power Adapter
- 1 x User Manual

## 4. PRODUCT OVERVIEW



Front and back view of the FERRISA 4x2 HDMI Matrix Switch, along with its remote control.

# Plug and Play HDMI Audio Extract



Detailed diagram illustrating the various input and output ports, including HDMI inputs, HDMI outputs, optical audio outputs, and headphone/speaker outputs.

## Front Panel Features:

- **Power LED:** Indicates power status.
- **IR Receiver:** For remote control signals.
- **Output 1/2 Indicators:** Show which input is selected for each output.
- **Key1/Key2 Buttons:** Manual switching between inputs for Output 1 and Output 2 respectively.

## Rear Panel Features:

- **HDMI OUT 1/2:** Connect to HDMI displays (TVs, monitors, projectors).
- **HDMI IN 1-4:** Connect to HDMI source devices (gaming consoles, Blu-ray players, PCs, Fire Sticks).
- **Optical 1/2:** Optical audio outputs for each HDMI output.
- **R/L OUT 1/2:** Stereo headphone/speaker outputs for each HDMI output.
- **EDID Switch:** Dip switches for EDID management.
- **DC/5V:** Power input port.

## 5. SETUP

Follow these steps for initial setup of your FERRISA 4x2 HDMI Matrix Switch:

1. **Connect HDMI Sources:** Connect up to four HDMI source devices (e.g., Blu-ray player, game console, PC) to the HDMI IN 1-4 ports on the matrix switch using high-quality HDMI cables.
2. **Connect HDMI Displays:** Connect your two HDMI displays (e.g., TV, monitor, projector) to the HDMI OUT 1 and HDMI OUT 2 ports on the matrix switch.
3. **Connect Audio Devices (Optional):** If you wish to extract audio, connect your optical audio devices to the Optical 1/2 ports or stereo headphones/speakers to the R/L OUT 1/2 ports.
4. **Power On:** Connect the provided 5V DC power adapter to the DC/5V port on the matrix switch and then plug it into a power outlet. The Power LED will illuminate.
5. **Configure EDID (if necessary):** Refer to the EDID Function section for advanced display compatibility settings.



Example of Splitter Mode setup, where one source is displayed on two screens.



# Matrix Mode

Two outputs could display different image



Example of Matrix Mode setup, where two different sources are displayed on two different screens.

## 6. OPERATING INSTRUCTIONS

### Switching Inputs:

The FERRISA 4x2 HDMI Matrix Switch offers multiple ways to switch between input sources:

- **Manual Button Switching:** Use the 'Key1' button to cycle through inputs for HDMI OUT 1, and 'Key2' button for HDMI OUT 2.
- **IR Remote Control:** Use the provided IR remote control to directly select inputs for each output. The remote has dedicated buttons for Output 1 (IN1-IN4) and Output 2 (IN1-IN4).


### Audio Extraction:

The matrix switch can extract audio from any HDMI input source via its optical (SPDIF) or 3.5mm stereo headphone outputs. This allows you to send audio to a soundbar, amplifier, or headphones independently or simultaneously with the HDMI video output.

### EDID Function:

The EDID (Extended Display Identification Data) management feature ensures optimal compatibility between the source and display

devices. Use the DIP switches on the rear panel to select the desired EDID mode. If the resolution of your output device is inconsistent, you may need to manually adjust the EDID setting on the product.



## HDMI Matrix EDID Setting Mode

EDID SET		
Mode	Switch	Function
Mode 1	(0000)	Copy the EDID of HDMI OUT 1
Mode 2	(0001)	Copy the EDID of HDMI OUT 2
Mode 3	(0010)	3D 1080P 2.0 CH LPCM
Mode 4	(0011)	3D 1080P 5.1 CH (LPCM/Dolby/DTS)
Mode 5	(0100)	2D 1080P 2.0 CH (LPCM)
Mode 6	(0101)	2D 1080P 5.1 CH (LPCM/Dolby/DTS)
Mode 7	(0110)	4k 2.0 CH (LPCM)
Mode 8	(0111)	3D 4k 5.1 CH (LPCM/Dolby/DTS)

EDID Setting Table: Refer to this table to configure the DIP switches for various display and audio formats. (Note: Dial switch to dial downward is 1, dial upward is 0)

Product Demonstration Video:

Your browser does not support the video tag.

Official FERRISA video demonstrating the features and usage of the 4x2 HDMI Matrix Switch. This video provides a visual guide to connecting devices, switching inputs, and understanding the product's capabilities.

7. MAINTENANCE

To ensure the longevity and optimal performance of your FERRISA 4x2 HDMI Matrix Switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosol sprays.
- **Ventilation:** Ensure the unit is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Cable Management:** Keep HDMI and power cables neatly organized to prevent strain on the ports and accidental disconnections.
- **Storage:** If storing the unit for an extended period, disconnect it from power and store it in a cool, dry place.

## 8. TROUBLESHOOTING

If you encounter issues with your FERRISA 4x2 HDMI Matrix Switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No video output	Loose HDMI cables, incorrect input selection, power issue, EDID incompatibility.	Check all HDMI cable connections. Ensure the correct input is selected for the active output. Verify power supply. Adjust EDID settings.
No audio output	Audio format not supported, loose audio cables, incorrect audio settings on source/display.	Ensure your audio format is correct and supported (LPCM/Dolby/DTS 5.1). Check optical/stereo audio cable connections. Adjust audio settings on source or display.
Intermittent signal	Poor quality HDMI cables, signal interference, power fluctuations.	Use high-quality, certified HDMI cables. Ensure proper grounding. Check power supply stability.
Remote control not working	Dead battery, IR sensor blocked, remote out of range.	Replace AAA battery in the remote. Ensure no obstructions between remote and IR sensor. Operate within effective range.

## 9. SPECIFICATIONS







- **Model:** YYG-E-1
- **HDMI Compliance:** HDMI 1.4b
- **HDCP Compliance:** HDCP 1.4
- **Video Resolution Support:** Up to 4K x 2K, 1080P, Ultra HD, 3D
- **Color Depth:** 8/10/12 bit deep color
- **Data Rate:** 3.4Gbps x3 (up to 340Mhz TMDS clock)
- **Audio Support:** LPCM/Dolby/DTS 5.1 channel
- **Input Ports:** 4 x HDMI
- **Output Ports:** 2 x HDMI, 2 x Optical (SPDIF), 2 x R/L (3.5mm Stereo)
- **Control:** Manual buttons, IR Remote Control
- **Power Supply:** DC 5V
- **Dimensions:** 8.98 x 7.05 x 2.32 inches
- **Item Weight:** 1.19 pounds
- **Material:** Metal casing (aluminum)

## 10. WARRANTY & SUPPORT

FERRISA products are designed for reliability and performance. For warranty information and technical support, please refer to the documentation included with your purchase or visit the official FERRISA website. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, you may contact FERRISA customer support through their official channels. Please provide your product model (YYG-E-1) and a detailed description of the issue for efficient service.

### Related Documents - YYG-E-1

<p><b>USER MANUAL</b></p> <hr/> <p>4K HDMI Matrix 4x2</p> <p>Enjoy the vivid world!</p>	<p><a href="#">FERRISA 4K HDMI Matrix 4x2 User Manual</a></p> <p>User manual for the FERRISA 4x2 HDMI Matrix, detailing its features, specifications, connections, operation, and troubleshooting for 4K HDMI signal distribution.</p>
<p>4x2 HDMI 2.0 Matrix Switcher with Audio Extractor/Scale / ARC/ EDID function</p>  <p>User Manual</p> <p>VER 1.2</p>	<p><a href="#">OREI UHDS-402A 4x2 HDMI 2.0 Matrix Switcher User Manual</a></p> <p>User manual for the OREI UHDS-402A 4x2 HDMI 2.0 Matrix Switcher with Audio Extractor, Scale, ARC, and EDID functions. Details features, specifications, operation, and troubleshooting.</p>
<p> <b>VigilLink</b></p> <p>VL-MX88VW-1</p> <p>8x8 HDMI 2.0 Matrix with Seamless switching &amp; videowall (8Gbps)</p>  <p>User Manual</p> <p>VER 1.1</p>	<p><a href="#">VigilLink VL-MX88VW-1: 8x8 HDMI 2.0 Matrix Switcher User Manual &amp; Guide</a></p> <p>Comprehensive user manual for the VigilLink VL-MX88VW-1 8x8 HDMI 2.0 Matrix Switcher. Learn about features, specifications, operation, PC tool control, and web control for seamless switching and videowall applications.</p>
<p> <b>FeinTech</b></p> <p>AX310</p> <p>HDMI 2.1 Audio Extractor (eARC)</p>  <p>deutsch - english - espanol - italiano - русский</p>	<p><a href="#">FeinTech AX310 HDMI 2.1 Audio Extractor (eARC) - User Manual</a></p> <p>Comprehensive user manual for the FeinTech AX310 HDMI 2.1 Audio Extractor, detailing its functions, installation, operation, EDID management, troubleshooting, and specifications for 8K Ultra-HD audio extraction.</p>
<p>18Gbps 8x8 HDMI Matrix with ARC Function</p>  <p>User Manual</p> <p>VER 1.0</p>	<p><a href="#">18Gbps 8x8 HDMI Matrix with ARC Function User Manual</a></p> <p>User manual for the 18Gbps 8x8 HDMI Matrix with ARC Function (Model HDP-MXB88DA). This guide details features, specifications, operation, and control methods including front panel, IR remote, RS-232, and Web GUI for seamless AV distribution.</p>