ICUIXIAN HDMI 1 in 8 out

ICUIXIAN 4K 1x8 HDMI Splitter Instruction Manual

Model: HDMI 1 in 8 out | Brand: ICUIXIAN

1. INTRODUCTION

The ICUIXIAN 4K 1x8 HDMI Splitter is designed to distribute a single HDMI input signal to eight identical HDMI outputs simultaneously. This device is ideal for duplicating video and audio content to multiple displays in various settings such as offices, conference rooms, classrooms, and home entertainment systems. It supports high-resolution video up to 4Kx2K@30Hz and 3D video formats, ensuring a clear and vibrant display across all connected screens.

2. PACKAGE CONTENTS

Please check the package carefully to ensure all items are present:

- 1x ICUIXIAN 4K 1x8 HDMI Splitter
- 1x 5V Power Adapter
- 1x User Manual

3. PRODUCT OVERVIEW

The ICUIXIAN 4K 1x8 HDMI Splitter features a durable metal casing and clearly labeled ports for easy identification and connection.

Front Panel

- **ON/OFF Switch:** To power the device on or off.
- **Power Indicator:** Illuminates when the device is powered on.
- **Output Indicators (1-8):** Blue LEDs that illuminate when a valid HDMI signal is detected on the corresponding output port.
- **Reset Button:** For resetting the device.

Rear Panel

- **DC 5V Input:** Connect the provided power adapter here.
- **HDMI IN:** Connect your HDMI source device (e.g., PS4, set-top box, computer) here.
- **HDMI OUT 1-8:** Connect your HDMI display devices (e.g., HDTV, projector, monitor) here.

COMPATIBLE WITH HDMI SOURCES

Laptop, Xbox, Sony Playstation, Fire Stick, Blu-Ray/DVD player,Satellite Receiver, Roku, Chromecast, PC, Projectors and many more.

Figure 1: Front and Rear Panel Layout of the ICUIXIAN 4K 1x8 HDMI Splitter, showing input, outputs, power, and indicators.

4. SETUP INSTRUCTIONS

Follow these steps to set up your HDMI splitter:

1. **Connect HDMI Source:** Use a high-quality HDMI cable to connect your source device (e.g., laptop, gaming console) to the **HDMI IN** port on the splitter.
2. **Connect HDMI Displays:** Use up to eight high-quality HDMI cables to connect your display devices (e.g., TVs, monitors, projectors) to the **HDMI OUT 1-8** ports on the splitter.
3. **Connect Power:** Plug the provided 5V power adapter into the **DC 5V** input port on the splitter, then plug the adapter into a power outlet.
4. **Power On:** Flip the ON/OFF switch to the 'ON' position. The power indicator and relevant output indicators should light up.
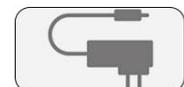

Product parameters

Name	HDMI quarter distributor
Bandwidth	300MHZ
Chip	High performance digital conversion chip
Shell	Metal
Picture quality	Can support 3840X2160/30HZ
Colour	black
Electric current	1000mA
Audio Format	DTS-HD/Doiby-trueHD/DTS/Doiby-AC3/DSD

Packing list

THDMI 1x8 Splitter

AC Adapter

Instructions

Figure 2: Connection diagram illustrating how to connect the HDMI source and multiple displays to the splitter.

5. OPERATING INSTRUCTIONS

The ICUIXIAN 4K 1x8 HDMI Splitter operates in a mirror/copy mode, meaning it duplicates the single input signal to all connected output displays. It does not support extended desktop mode where each display shows different content.

Resolution Handling

The splitter supports resolutions up to 4Kx2K@30Hz. If you connect displays with different maximum resolutions, the splitter will output the highest common resolution supported by all connected displays. For example, if you have a 4K display and a 1080p display connected, the output to both will be 1080p to ensure compatibility.
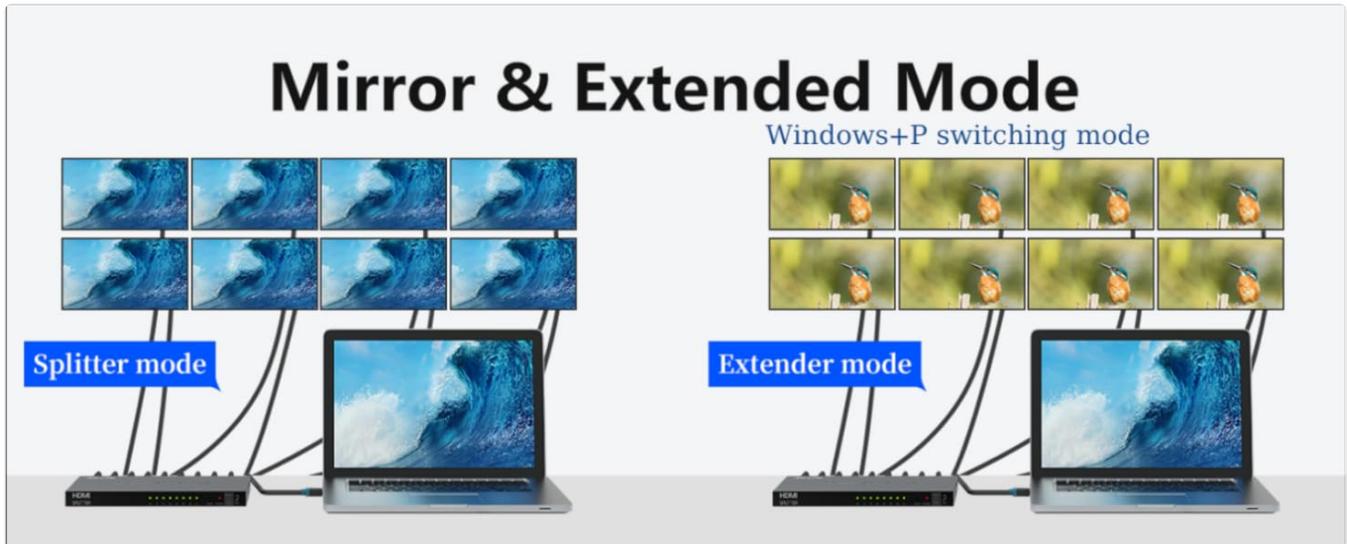

Figure 3: Diagram illustrating the mirror/copy display mode, where all connected screens show the same content.

EDID Management

The device features EDID (Extended Display Identification Data) management capabilities, typically controlled via DIP switches on the unit. These switches allow you to configure the EDID settings to ensure optimal compatibility and resolution output for your specific setup. Refer to the detailed EDID Management Table in your included user manual for specific switch configurations and their corresponding output modes (e.g., 1080p/60Hz, 7.1ch audio).

Figure 4: Example of an EDID Management Table, showing DIP switch settings for various resolutions and audio formats.

6. IMPORTANT CONSIDERATIONS

- **Cable Quality:** Use high-quality HDMI cables (AWG26 standard cable recommended) to ensure stable signal transmission, especially for longer distances and higher resolutions.
- **Cable Length:** For 1080p resolution, input HDMI cables up to 35ft and output up to 65ft are supported. For 4K resolution, input HDMI cables up to 15ft and output up to 35ft are recommended for optimal performance.
- **Resolution Matching:** For best results, ensure all connected output devices are set to the same resolution. The splitter will automatically downscale to the lowest common resolution if displays have different capabilities.
- **Heat Dissipation:** The metal casing helps with heat dissipation. Ensure adequate airflow around the unit, especially during prolonged use.

7. TROUBLESHOOTING

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

- **No Signal on Displays:**

  - Ensure the power adapter is securely connected and the splitter is powered on.
  - Verify all HDMI cables are securely connected to both the source, splitter, and displays.
  - Check if the input source device is powered on and outputting a signal.
  - Try connecting the HDMI source directly to a single display to confirm the source and cable are working.
  - Adjust the EDID settings using the DIP switches on the splitter to a compatible resolution (e.g., 1080p).

- **Poor Picture Quality/Flickering:**

  - Use shorter, higher-quality HDMI cables.
  - Ensure the resolution of your source and displays is compatible with the splitter's capabilities (4Kx2K@30Hz max).
  - Check for any interference from other electronic devices.

- **Audio Issues:**

  - Verify audio settings on your source device.
  - Ensure your displays support the audio format being transmitted.
  - Adjust EDID settings if applicable to ensure proper audio channel detection.

8. SPECIFICATIONS

Feature	Description
Product Dimensions	10 x 1 x 4 inches
Item Weight	2.05 pounds
Input Ports	1x HDMI
Output Ports	8x HDMI
Supported Resolutions	4Kx2K@30Hz, 1080p, 720p, 3D
Audio Formats	DTS-HD, Dolby-Truehd, DTS, Dolby-AC3, DSD
Deep Color	8/10/12-bit
Bandwidth	300MHz
Shell Material	Metal
Electric Current	1000mA
HDCP Compliance	HDMI1.4b, with HDCP

9. MAINTENANCE

To ensure the longevity and optimal performance of your HDMI splitter:

- Keep the device in a cool, dry place away from direct sunlight and heat sources.
- Avoid exposing the device to moisture or extreme temperatures.
- Clean the device with a soft, dry cloth. Do not use liquid or aerosol cleaners.

- Ensure proper ventilation to prevent overheating.

10. Warranty and Support

Your ICUIXIAN 4K 1x8 HDMI Splitter comes with a manufacturer's warranty. Please refer to the warranty card included in your package for details on warranty coverage and how to register your product.
For any questions, technical support, or assistance, please contact ICUIXIAN Official support channels as indicated in your user manual or product packaging.

11. Product Video Overview

Watch this video for a product introduction and overview of the HDMI distributor:

Video: HDMI distributor 1 in 8 out product introduction. This video provides a visual guide to the product's features and basic functionality.