

## Y0S3QZ1 HDM42J2

# Y0S3QZ1 HDMI 2.0 Matrix Switch Splitter 4x2 4K@60Hz HDR ARC HiFi Audio Extractor User Manual

Model: HDM42J2

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## 1. INTRODUCTION

The Y0S3QZ1 HDMI 2.0 Matrix Switch Splitter 4x2 is designed to distribute four HDMI input sources to two HDMI displays simultaneously. It supports 4K@60Hz resolution, High Dynamic Range (HDR), and Audio Return Channel (ARC) functionality. This device also features HiFi audio extraction through SPDIF, Coaxial, and 3.5mm audio outputs, making it suitable for various home theater and professional AV applications. This manual provides comprehensive instructions for proper installation and operation.

## 2. PACKAGE CONTENTS

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

- 1x HDMI 2.0 Matrix Switch Splitter (Model: HDM42J2)
- 1x Remote Control
- 1x Power Adapter
- 1x User Manual



This image displays the complete package contents of the Y0S3QZ1 HDMI 2.0 Matrix Switch Splitter. It includes the main matrix unit, a white remote control, a black power adapter with a cable, and a white user manual.

### 3. PRODUCT FEATURES

- Supports HDMI 2.0b and HDCP 2.2.
- 4 HDMI inputs and 2 HDMI outputs.
- Supports resolutions up to 4K@60Hz (YUV 4:4:4).
- Supports HDR (High Dynamic Range).
- Supports ARC (Audio Return Channel) on HDMI Output A.
- Audio extraction via SPDIF, Coaxial, and 3.5mm stereo audio ports.
- Supports various audio formats including Dolby Digital, DTS, LPCM.
- EDID management for optimal display compatibility.
- Control via front panel buttons or included IR remote control.

## 4. PRODUCT DIAGRAM

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This section provides an overview of the ports and indicators on the HDMI Matrix Switch Splitter.

### Front Panel

- **Power LED:** Indicates power status.
- **Input Select Buttons (IN1-IN4):** Selects the input source for Output A or B.
- **Output Select Buttons (OUT A, OUT B):** Switches between inputs for the respective output.
- **EDID Button:** Manages EDID settings.

### Rear Panel

- **HDMI IN 1-4:** Connect HDMI source devices (e.g., Blu-ray player, game console).
- **HDMI OUT A:** Connect to Display A (supports ARC).
- **HDMI OUT B:** Connect to Display B.
- **SPDIF OUT:** Optical digital audio output.
- **COAX OUT:** Coaxial digital audio output.
- **3.5mm Audio OUT:** Analog stereo audio output.
- **DC 5V:** Power adapter input.

## 5. REMOTE CONTROL

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The included IR remote control allows for convenient operation of the matrix switch. Ensure the remote has batteries installed and is pointed towards the IR receiver on the front panel of the device.

- **Power Button:** Turns the device on or off.
- **IN1-IN4 (Output A):** Selects input for HDMI Output A.
- **IN1-IN4 (Output B):** Selects input for HDMI Output B.
- **ARC Button:** Activates/deactivates ARC function for HDMI Output A.



This image shows the remote control included with the HDMI Matrix Switch Splitter. It features buttons for power, input selection for two outputs (A and B), and an ARC function button.

## 6. SETUP

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Follow these steps to set up your HDMI Matrix Switch Splitter:

1. **Power Off Devices:** Ensure all source devices (e.g., Blu-ray player, game console) and display devices (TVs, monitors) are powered off before making connections.
2. **Connect HDMI Sources:** Connect your HDMI source devices to the HDMI IN 1-4 ports on the matrix switch using high-quality HDMI 2.0 cables.
3. **Connect HDMI Displays:** Connect your HDMI display devices to the HDMI OUT A and HDMI OUT B ports on the matrix switch using high-quality HDMI 2.0 cables.
4. **Connect Audio System (Optional):** If using external audio, connect your amplifier or soundbar to the SPDIF OUT, COAX OUT, or 3.5mm Audio OUT ports.
5. **Connect Power Adapter:** Plug the included power adapter into the DC 5V port on the matrix switch, then plug the adapter into a power outlet.
6. **Power On Devices:** Power on the matrix switch, then power on your display devices, and finally your source devices.

The matrix switch will automatically detect the input signals. You can then select the desired input for each output using the front panel buttons or the remote control.

## 7. OPERATING INSTRUCTIONS

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### Switching Inputs

- **Using Front Panel Buttons:**
  - Press the "OUTPUT A" button to cycle through inputs for Display A.
  - Press the "OUTPUT B" button to cycle through inputs for Display B.
- **Using Remote Control:**
  - Press the corresponding IN1-IN4 button under "OUTPUT A" to select the input for Display A.
  - Press the corresponding IN1-IN4 button under "OUTPUT B" to select the input for Display B.

### Audio Return Channel (ARC)

The ARC function allows audio from your TV (connected to HDMI OUT A) to be sent back to the matrix switch and then output through the SPDIF, Coaxial, or 3.5mm audio ports. This is useful for playing TV's internal apps audio through your sound system.

- Ensure your TV supports ARC and that the ARC function is enabled in your TV's settings.
- Connect your TV to HDMI OUT A.
- Press the "ARC" button on the remote control to activate or deactivate the ARC function. The ARC LED indicator on the front panel will illuminate when active.

## 8. AUDIO EXTRACTION

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The matrix switch can extract audio from the selected HDMI input and output it through the dedicated audio ports (SPDIF, Coaxial, 3.5mm). This allows you to connect to external audio receivers, soundbars, or headphones.

- **SPDIF/Coaxial Output:** Supports Dolby Digital, DTS, and LPCM 2.0 audio formats.
- **3.5mm Audio Output:** Provides analog stereo audio. This output will only carry LPCM 2.0 audio. If the source audio

is multi-channel (e.g., Dolby Digital, DTS), ensure your source device or the matrix switch's EDID settings are configured to output LPCM 2.0 for this port.

## 9. EDID MANAGEMENT

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EDID (Extended Display Identification Data) is crucial for ensuring compatibility between source devices and displays. The matrix switch offers EDID management to optimize video and audio performance.

The EDID settings can typically be adjusted via the EDID button on the front panel or remote control. Common EDID modes include:

- **COPY EDID:** The matrix copies the EDID from the connected display (usually Output A) to ensure maximum compatibility.
- **FIXED EDID:** The matrix uses a built-in EDID (e.g., 4K@60Hz, 1080p, 2.0CH audio) to ensure stable output regardless of the connected display's capabilities.
- **MIXED EDID:** The matrix attempts to find a common resolution and audio format supported by all connected displays.

Refer to the specific EDID indicators on the device (if available) or cycle through modes to find the best setting for your setup. If you encounter display issues, try adjusting the EDID mode.

## 10. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Power:** Disconnect the power adapter if the device will not be used for an extended period.
- **Environment:** Keep the device away from direct sunlight, high temperatures, humidity, and dust.
- **Cables:** Regularly check HDMI and power cables for any damage. Replace damaged cables immediately.

## 11. TROUBLESHOOTING

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If you experience issues with your HDMI Matrix Switch Splitter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No video output on display.	<ul style="list-style-type: none"><li>• Loose HDMI cable connection.</li><li>• Incorrect input selected.</li><li>• Power issue.</li><li>• HDCP incompatibility.</li><li>• EDID conflict.</li></ul>	<ul style="list-style-type: none"><li>• Ensure all HDMI cables are securely connected.</li><li>• Select the correct input source for the output.</li><li>• Verify the power adapter is connected and the device is powered on.</li><li>• Try different HDMI cables (ensure they are HDMI 2.0 compliant).</li><li>• Adjust EDID settings on the matrix switch.</li><li>• Restart all connected devices.</li></ul>

Problem	Possible Cause	Solution
No audio output.	<ul style="list-style-type: none"> <li>• Audio format incompatibility.</li> <li>• Loose audio cable connection.</li> <li>• ARC not enabled (if using ARC).</li> <li>• TV audio settings.</li> </ul>	<ul style="list-style-type: none"> <li>• Check if the audio format from the source is supported by the output device. For 3.5mm output, ensure LPCM 2.0.</li> <li>• Verify audio cables are securely connected.</li> <li>• Activate ARC on the remote and ensure TV ARC is enabled.</li> <li>• Adjust TV audio output settings (e.g., external speaker, PCM).</li> </ul>
Remote control not working.	<ul style="list-style-type: none"> <li>• Dead batteries.</li> <li>• Obstruction between remote and device.</li> <li>• Remote not pointed correctly.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace batteries.</li> <li>• Ensure a clear line of sight to the IR receiver on the matrix switch.</li> <li>• Point the remote directly at the device.</li> </ul>

## 12. SPECIFICATIONS

<b>HDMI Version</b>	HDMI 2.0b
<b>HDCP Version</b>	HDCP 2.2
<b>Input Ports</b>	4 x HDMI
<b>Output Ports</b>	2 x HDMI, 1 x SPDIF, 1 x Coaxial, 1 x 3.5mm Audio
<b>Max Resolution</b>	4K@60Hz (YUV 4:4:4)
<b>Color Depth</b>	8/10/12-bit Deep Color
<b>HDR Support</b>	Yes
<b>ARC Support</b>	Yes (on HDMI OUT A)
<b>Audio Formats (Digital)</b>	Dolby Digital, DTS, LPCM 2.0
<b>Audio Formats (Analog)</b>	LPCM 2.0 (3.5mm output)
<b>Max Bandwidth</b>	18Gbps
<b>Power Supply</b>	DC 5V
<b>Dimensions</b>	Approximately 1.18 x 0.79 x 0.39 inches (30 x 20 x 10 mm)
<b>Weight</b>	Approximately 1.76 ounces (50g)

## 13. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact your retailer.

For technical support or customer service inquiries, please contact the vendor or retailer from whom you purchased the product. Please have your model number (HDM42J2) and purchase information ready when contacting support.

