

## XOLORspace HDSP0013M1

# XOLORspace HDSP0013M1 4K HDR HDMI Splitter 1x2 User Manual

Model: HDSP0013M1

## 1. INTRODUCTION

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The XOLORspace HDSP0013M1 is a high-performance 1-input, 2-output HDMI splitter designed to distribute a single HDMI source to two displays simultaneously. This device supports 4K@60Hz HDR video and features an automatic downscaler, allowing one output to display 4K content while the other displays 1080p content, catering to mixed display environments. It is compliant with HDMI 2.0b and HDCP 2.2 standards, ensuring compatibility with modern audio and video equipment.

## 2. FEATURES

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- **HDMI Input:** 1 port
- **HDMI Outputs:** 2 ports
- **Max Resolution Support:** Up to 4K@60Hz YUV 4:4:4 HDR and Dolby Vision passthrough.
- **HDMI Standard:** HDMI 2.0b
- **HDCP Compliance:** HDCP 2.2
- **Automatic Downscaling:** Supports automatic 4K@60Hz to 1080p@60Hz downscaling for independent outputs. This allows one display to receive 4K HDR while another receives 1080p. *Note: Does not support Dolby Vision downscaling to 1080p.*
- **Audio Passthrough:** Supports DTS-HD/Dolby-trueHD/LPCM7.1/DTS/Dolby-AC3/DSD audio formats.
- **Audio EDID Management:** Features EDID settings for audio (Min/Max) to optimize compatibility.
- **Bandwidth:** 600 MHz
- **Data Rate:** 18 Gbps

## 3. PACKAGE CONTENTS

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Please ensure all items are present in the package:

- XOLORspace HDSP0013M1 HDMI Splitter

- 5V DC Power Adapter
- User Manual (This document)

## 4. PRODUCT DIAGRAM

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Familiarize yourself with the ports and controls on the XOLORspace HDSP0013M1 HDMI Splitter.



**Figure 1:** Front and Back View of the HDSP0013M1 Splitter. Shows the HDMI IN port, two HDMI OUT ports, and the DC 5V power input.



**Figure 2:** Top View of the HDSP0013M1 Splitter. Displays the ON/OFF switch, Power LED, IN LED, OUT1/OUT2 LEDs, 2.0/1.4/1.3 LEDs, and Min/Max Audio EDID switches.

## 5. SETUP INSTRUCTIONS

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Follow these steps to connect your XOLORspace HDSP0013M1 HDMI Splitter:

1. **Connect HDMI Source:** Using a high-quality HDMI cable, connect your HDMI source device (e.g., Blu-ray player, game console, set-top box) to the **HDMI IN** port on the splitter.
2. **Connect Display 1:** Using a high-quality HDMI cable, connect your primary display (e.g., 4K TV) to the **HDMI OUT1** port on the splitter.
3. **Connect Display 2:** Using a high-quality HDMI cable, connect your secondary display (e.g., 1080p TV or projector) to the **HDMI OUT2** port on the splitter.
4. **Connect Power:** Plug the provided 5V DC power adapter into the **DC 5V** port on the splitter, then plug the adapter into a power outlet.
5. **Power On:** Turn on the splitter using the ON/OFF switch, then power on your HDMI source device and connected displays. The Power LED and relevant IN/OUT LEDs on the splitter should illuminate.

## 6. OPERATING INSTRUCTIONS

### 6.1. Automatic Downscaling Functionality

The HDSP0013M1 features an automatic downscaling function. If your input source is 4K@60Hz HDR and one of your connected displays is a 1080p display (HDCP 1.3/1.4 compatible), the splitter will automatically downscale the signal for that specific output to 1080p@60Hz, while maintaining 4K@60Hz HDR for the other compatible display. This allows for simultaneous viewing on mixed resolution displays.



**Figure 3:** Automatic Downscaling Example. A 4K 60Hz HDR input is split, with one output remaining 4K 60Hz HDR for a compatible TV, and the other output downscaled to 1080p 60Hz for an older TV.

*Important Note:* This downscaling feature does not support Dolby Vision content when downscaling to 1080p. Also, the splitter does not perform frequency downscaling; for example, a 4K@30Hz input will be downscaled to 1080p@30Hz, not 1080p@60Hz.

### 6.2. Audio EDID Management

The splitter provides EDID management options for audio to ensure compatibility with your audio receiver or sound system. Use the 'Min' or 'Max' switch on the device to adjust the audio EDID settings:

- **Min:** Typically selects the lowest common audio format supported by all connected displays/receivers. This can help resolve audio compatibility issues.
- **Max:** Attempts to select the highest audio format supported.

Adjust this setting if you experience audio dropouts or no audio output.

### 6.3. LED Indicators

The LEDs on the top panel provide status information:

- **Power LED:** Illuminates when the device is powered on.
- **IN LED:** Illuminates when an active HDMI signal is detected on the input port.
- **OUT1/OUT2 LEDs:** Illuminate when an active HDMI signal is being sent to the respective output port.
- **2.0/1.4/1.3 LEDs:** Indicate the detected HDCP version of the connected displays.

## 7. IMPORTANT CONSIDERATIONS

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- **HDMI Cable Quality:** Signal flickering or instability is often caused by HDMI cables. For optimal performance, especially with 4K@60Hz HDR signals and cable lengths exceeding 3 meters, use high-quality HDMI 2.0b and HDCP 2.2 compliant cables (AWG26 or better, 100% oxygen-free pure copper).
- **Cable Length:** For 1080p signals, input and output HDMI cable distances can be up to 10 meters using standard AWG24 pure copper HDMI cables. For 4Kx2K signals, input and output HDMI cable distances should be limited to 5 meters using AWG24 18Gbps HDMI cables.
- **HDCP Compatibility:** Ensure all connected devices (source and displays) are HDCP compliant for proper signal transmission.

## 8. SPECIFICATIONS

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<b>Model Number</b>	HDSP0013M1
<b>HDMI Version</b>	HDMI 2.0b
<b>HDCP Version</b>	HDCP 2.2
<b>Max Resolution</b>	4K@60Hz YUV 4:4:4
<b>Bandwidth</b>	18 Gbps
<b>Input Ports</b>	1 x HDMI
<b>Output Ports</b>	2 x HDMI
<b>Supported Audio Formats</b>	DTS-HD/Dolby-trueHD/LPCM7.1/DTS/Dolby-AC3/DSD
<b>Power Supply</b>	DC 5V
<b>Dimensions (L x W x H)</b>	14.9 x 12.1 x 5.6 cm
<b>Weight</b>	306 grams
<b>UPC</b>	786467707781

## 9. TROUBLESHOOTING

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If you encounter issues, please refer to the following common problems and solutions:

- **No Picture or Flickering Picture:**

- Ensure all HDMI cables are securely connected to the correct ports.
- Verify that the power adapter is properly connected and the splitter's Power LED is on.
- Try using shorter, higher-quality HDMI 2.0b certified cables, especially for 4K signals.
- Test with a different HDMI source or display to isolate the problem.
- Check if the source device's output resolution is compatible with the connected displays.

- **No Audio:**

- Check the audio settings on your source device and displays/receivers.
- Adjust the 'Min'/Max' Audio EDID switch on the splitter to see if it resolves the issue.
- Ensure your audio receiver or sound system supports the audio format being sent by the source.

- **Incorrect Resolution or Color Issues:**

- Confirm that your displays support the resolution and refresh rate being output by the source.
- Remember that Dolby Vision content is not downscaled to 1080p.
- Ensure all components (source, splitter, displays) are HDCP compliant.

## 10. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or aerosols.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Avoid:** Do not expose the device to water, moisture, or excessive physical shock.

## 11. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your proof of purchase for any warranty claims.