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Blackmagic Design CONVMBHS24K6G

Blackmagic Design Mini HDMI-SDI Converter 6G User Manual

Model: CONVMBHS24K6G

1. INTRODUCTION AND OVERVIEW

The Blackmagic Design Mini HDMI-SDI Converter 6G is a professional video conversion device designed to transform HDMI video signals into SDI video. This converter supports various formats including Standard Definition (SD), High Definition (HD), and Ultra High Definition (Ultra HD) up to 6G-SDI. It is an ideal solution for integrating consumer HDMI cameras and devices into broadcast and professional video workflows.

This manual provides essential information for setting up, operating, and maintaining your Mini HDMI-SDI Converter 6G, ensuring optimal performance and longevity.



Figure 1: Front view of the Blackmagic Design Mini HDMI-SDI Converter 6G, illustrating its compact design and connection ports.

2. KEY FEATURES

- **HDMI to SDI Conversion:** Converts HDMI input to SDI output, supporting SD, HD, and Ultra HD formats up to 6G-SDI.
- **Audio Embedding:** Embeds audio from the incoming HDMI signal, or from external AES/EBU or balanced analog audio inputs, into the SDI output.
- **Automatic Format Switching:** Automatically detects and switches between SD, HD, and Ultra HD video standards.
- **High-Quality Video Processing:** Features unsurpassed 10-bit video processing for professional broadcast quality.
- **Low-Jitter SDI Connections:** Ensures signal integrity over long cable runs.
- **Robust and Compact Design:** Engineered for reliability in various environments, from studio racks to outdoor events.
- **Integrated Mini Switches:** Allows for quick configuration changes directly on the unit, with a diagram provided on the back for reference.

3. SETUP INSTRUCTIONS

1. **Connect HDMI Source:** Connect your HDMI video source (e.g., camera, computer, media player) to the HDMI input port on the converter using a high-quality HDMI cable.
2. **Connect SDI Destination:** Connect the SDI output port(s) of the converter to your SDI monitoring, recording, or distribution equipment using appropriate SDI cables. The converter provides two SDI outputs.
3. **Connect Audio (Optional):** If you wish to embed external audio, connect your AES/EBU or balanced analog audio sources to the respective audio input jacks on the converter. Refer to the unit's labeling for correct left and right channel connections.
4. **Connect Power:** Plug the included 12V universal power supply into the converter's power input. Connect the power supply to a suitable electrical outlet. The converter will power on automatically.
5. **Configure Settings (if necessary):** If specific settings are required for your workflow, refer to the dip switch diagram on the back of the unit. Use a small tool to adjust the switches as needed.

4. OPERATING INSTRUCTIONS

The Blackmagic Design Mini HDMI-SDI Converter 6G is designed for straightforward operation. Once all connections are made and power is supplied, the converter will automatically detect the incoming HDMI video format and convert it to the corresponding SDI format.

- **Automatic Format Detection:** The converter automatically senses the input video format (SD, HD, or Ultra HD) and outputs the corresponding SDI signal. No manual configuration is typically required for standard conversions.
- **Audio Embedding:** Audio from the HDMI input is automatically embedded into the SDI output. If external AES/EBU or analog audio is connected, the converter will embed this audio instead, based on the dip switch settings.
- **Dip Switch Configuration:** For advanced settings, such as selecting audio input sources or other operational parameters, consult the dip switch diagram located on the back of the converter. Adjusting these switches allows customization of the converter's behavior.

5. MAINTENANCE

To ensure the longevity and reliable performance of your Blackmagic Design Mini HDMI-SDI Converter 6G, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the converter. Avoid using liquid cleaners or solvents, as they may damage the finish or internal components.
- **Ventilation:** Ensure the converter is placed in a location with adequate airflow to prevent overheating. Do not block any ventilation openings.
- **Environmental Conditions:** Operate the converter within its specified temperature and humidity ranges. Avoid extreme temperatures, direct sunlight, and high moisture environments.
- **Cable Management:** Keep cables neatly organized and avoid excessive bending or tension, which can damage connectors or internal wiring.

6. TROUBLESHOOTING

If you encounter issues with your Mini HDMI-SDI Converter 6G, consider the following troubleshooting steps:

- **No Video Output:**
 - Verify that the HDMI source is active and outputting a signal.
 - Check all HDMI and SDI cable connections to ensure they are secure.
 - Confirm the converter is receiving power (check power LED if available).
 - Ensure your SDI destination device supports the output format from the converter.
- **No Audio Output:**
 - Check the audio settings on your HDMI source.
 - If using external audio, ensure the cables are correctly connected and the audio source is active.
 - Verify the dip switch settings on the converter are configured to embed the desired audio source.
- **Intermittent Signal:**
 - Inspect HDMI and SDI cables for damage or loose connections.
 - Ensure the power supply is stable and securely connected.
 - Check for potential electromagnetic interference from other equipment.
- **Incorrect Format/Resolution:**
 - While the converter auto-switches, ensure the HDMI source is outputting a supported format.
 - Consult the dip switch diagram for any settings that might influence format handling.

If problems persist, refer to the Blackmagic Design support website or contact their customer service for further assistance.

7. SPECIFICATIONS

Feature	Specification
Model Number	CONVMBHS24K6G
Product Dimensions (L x W x H)	4.49 x 3.62 x 0.91 inches (11.4 x 9.2 x 2.3 cm)

Feature	Specification
Item Weight	8.6 ounces (244 grams)
Color	Black
Connector Type	HDMI, SDI
Compatible Devices	Cameras, Projectors, and other HDMI/SDI equipment
Manufacturer	Blackmagic Design
First Available Date	December 1, 2017

8. WHAT'S IN THE BOX

Your Blackmagic Design Mini HDMI-SDI Converter 6G package includes:

- Blackmagic Design Mini HDMI-SDI Converter 6G
- 12V Universal Power Supply with international plug adapters

9. WARRANTY AND SUPPORT

For detailed warranty information, product registration, and technical support, please visit the official Blackmagic Design website. Warranty terms and conditions may vary by region and product.

You can find additional resources and contact support at: [Blackmagic Design Support](#)

Related Documents - CONVMBHS24K6G

	<p>Blackmagic Converters Installation and Operation Manual</p> <p>Comprehensive guide to installing and operating Blackmagic Converters, covering Mini and Micro Converter models, setup procedures, software updates, and detailed product specifications for professional video conversion.</p>
	<p>Comprehensive Guide to Church Livestreaming Equipment by Resi</p> <p>A detailed guide to selecting the best livestreaming equipment for churches, covering cameras, encoders, audio gear, video transmission cables, and platforms, with recommendations from Resi.</p>

	<p>Blackmagic Videohub Installation and Operation Manual</p> <p>This manual provides comprehensive instructions for installing, configuring, and operating the Blackmagic Videohub family of professional video routing switchers and control panels, including Universal Videohub, Smart Videohub CleanSwitch, Master Control Pro, Smart Control Pro, MultiView 16, and GPI and Tally Interface. It covers setup, network configuration, software control, and developer information.</p>
	<p>PolarFire 12G-SDI Design Demo Guide DG0889</p> <p>A guide detailing the setup and operation of the PolarFire 12G-SDI design demo, featuring dual camera modules, SDI transmission and reception, and HDMI output.</p>
	<p>Decimator 12G-CROSS HDMI/SDI 4K Cross Converter Operating Manual</p> <p>Comprehensive operating manual for the Decimator 12G-CROSS, detailing its features, setup, and controls for HDMI/SDI 4K cross conversion with scaling and frame rate conversion.</p>
	<p>Blackmagic Studio Converter: Setup, Features, and Connections Guide</p> <p>Comprehensive guide to the Blackmagic Studio Converter, covering setup, connections to cameras and ATEM switchers, front and rear panel features, menu settings, and talkback/tally configurations.</p>

Documents - Blackmagic Design – CONVMBHS24K6G



[\[pdf\] User Manual Instructions Guide](#)

Blackmagic Design CONVMBHS24K6G instruction manual from Ivojo Multimedia Ltd Instruction Manual the SD HD and UHD HDMI with analogue or AES audio to SDI 6G converter 1 x input 2 Mirrored outputs operating instructions user guide blackmagic design convmbhs24k6givojo co uk books convmbhs24k6g ||| Installation and Operation Manual Blackmagic Converters September 2020 English, , Franais, Deutsch, Espaol, , , Italiano, Portugus and Trke. Languages To go directly to your preferred language, simply click on the hyperlinks listed in the contents below. English 3 100 Franais 198 Deutsc...

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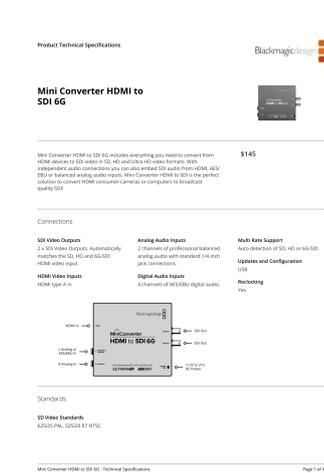


[pdf] Specifications

Mini Converters Tech Specs Blackmagic Design Converter HDMI to SDI 6G m markertek Connections Video Outputs 2 x Automatically matches the SD HD and video input Inputs type A in BMD CONVMBHS24K6G Specifications Attachments

Product Technical Specifications Mini Converter HDMI to SDI 6G Mini Converter HDMI to SDI 6G includes everything you need to convert from HDMI devices to SDI video in SD, HD and Ultra HD video formats. With independent audio connections you can also embed SD audio from HDMI, AES/ EBU or balanced a...

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[pdf] Specifications

Mini Converters Tech Specs Blackmagic Design Converter HDMI to SDI 6G MarkertekMini is the perfect solution convert consumer cameras or computers broadcast quality SDI! \$145 Product Technical BMD CONVMBHS24K6G Specificationsmarkertek Attachments Specifications BMD srsltid AfmBOoqXBk 4FFOKi59BEIpJ67NJ SkvpxDzEdKGRgo Z4n1Ra0dkDiH SpecificationsBMD Z4n1Ra0dkDiHmarkertek AfmBOorkjwiUJdJkTwfIjWApf7hYi53jYdi07yNiuYE7drAPY2PGAh7G

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