

Blackmagic Design CONVMUDCSTD/HD

Blackmagic Design Mini Converter UpDownCross HD User Manual

Model: CONVMUDCSTD/HD

INTRODUCTION

The Blackmagic Design Mini Converter UpDownCross HD is a versatile video converter designed to transform any SD or HD video format to any other SD or HD video format. This device is essential for integrating various video equipment with differing format requirements, ensuring compatibility and seamless signal flow in professional video workflows.

It features both SDI and HDMI inputs and outputs, along with a reference input for built-in re-sync capabilities. The converter utilizes high-quality Teranex conversion algorithms and includes automatic audio delay for precise synchronization. This manual provides instructions for setting up, operating, and maintaining your Mini Converter UpDownCross HD.

SETUP

1. Unpacking and Inspection

Carefully remove the Mini Converter from its packaging. Inspect the device for any signs of damage during transit. Ensure all components, including the universal power supply, are present.

2. Power Connection

Connect the provided +12V universal power supply to the 'POWER +6 to 36V' input on the converter. Use the appropriate international socket adapter for your region. The converter operates within a voltage range of 6 to 36 VDC and has a power consumption of 5W.

3. Video and Audio Connections

Identify the input and output ports on the converter. Connect your source device (e.g., camera, computer) to either the **SDI IN** or **HDMI IN** port. Connect your display or recording device to the corresponding **SDI OUT** or **HDMI OUT** port. The **SDI LOOP** output provides a direct pass-through of the SDI input signal.

For precise synchronization in complex setups, connect a reference signal to the **REF IN** port.

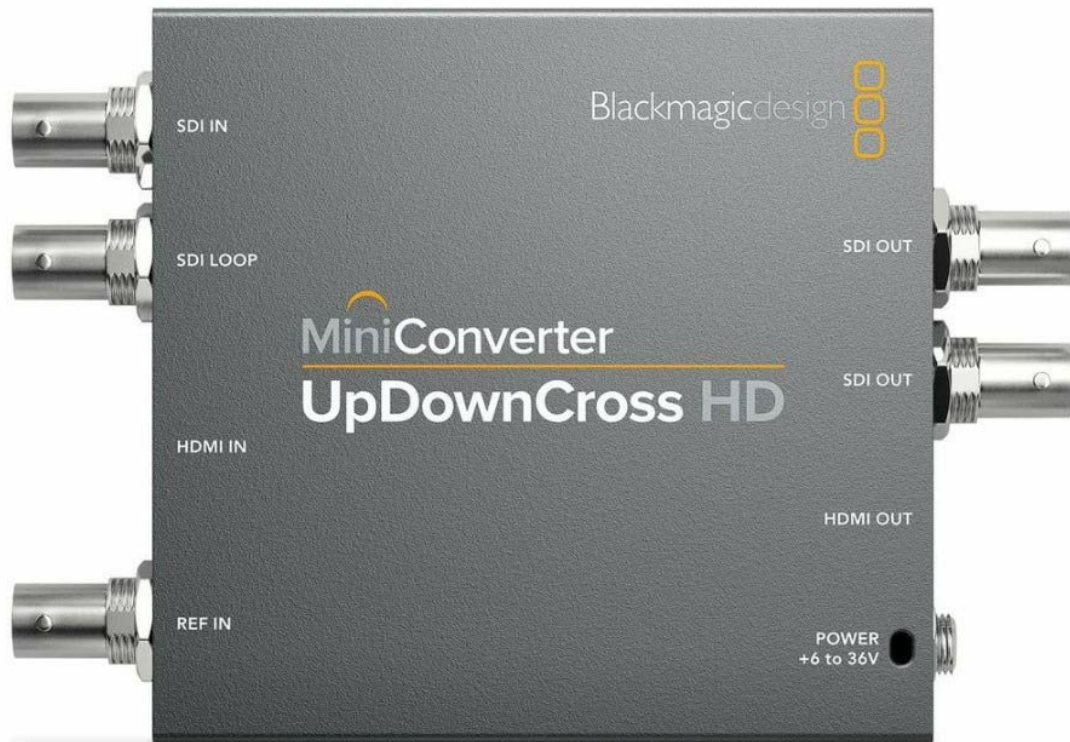


Image: Front view of the Mini Converter, illustrating the SDI IN, SDI LOOP, HDMI IN, REF IN, SDI OUT, HDMI OUT, and Power connections.



Image: Angled view of the Mini Converter, providing a clear perspective of all input and output ports.

4. Dip Switch Configuration

The Mini Converter UpDownCross HD uses a series of dip switches to configure its conversion settings. These switches are located on the side of the unit. Refer to the diagram printed on the converter or the detailed manual for specific settings. Each switch corresponds to a particular function or output format. Ensure the power is disconnected before adjusting dip switches.

- **Output Format Selection:** Use switches to select the desired output resolution and frame rate (e.g., 1080p29.97, 1080i50, 720p60).
- **Processing Mode:** Switches may control options like Level A or Level B SDI output, or enable/disable processing.
- **Input Detection:** The converter typically auto-detects the input format, but specific switches might fine-tune this behavior.

After setting the dip switches, reconnect the power. The converter will apply the new settings.



Image: Detailed view of the dip switch configuration diagram on the Mini Converter, showing various settings for output formats and processing modes.

OPERATING

Video Conversion

Once properly connected and configured via the dip switches, the Mini Converter will automatically convert the incoming video signal to the specified output format. The high-quality Teranex conversion algorithms ensure a clean and accurate transformation of your video signals.

Software Upgrades

The Mini Converter includes an internal software upgrade option. To update the firmware, connect the converter to a computer via its USB port and use the Blackmagic Design updater application. This ensures your converter always has the latest features and performance enhancements.

Operating Systems

The updater application for the Mini Converter is compatible with multiple operating systems, including Mac 10.14 Mojave, Mac 10.15 Catalina, Windows 8.1, and Windows 10.

MAINTENANCE

To ensure optimal performance and longevity of your Mini Converter, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. 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.
- **Storage:** When not in use for extended periods, store the converter in a cool, dry place, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

If you encounter issues with your Mini Converter, consider the following troubleshooting steps:

- **No Video Output:**
 - Verify all video cables (SDI, HDMI) are securely connected to both the converter and your source/destination devices.
 - Check the power connection and ensure the converter is receiving power.
 - Review the dip switch settings to confirm the output format matches the capabilities of your display or recording device.
 - Ensure the input signal is within the supported range of the converter.
- **Incorrect Video Format/Resolution:**
 - Double-check the dip switch settings for the desired output format. Make sure they are set correctly according to the diagram.
 - Confirm the input signal's format and resolution.
- **Intermittent Signal:**
 - Inspect cables for damage or loose connections.
 - Ensure the power supply is stable and within the specified voltage range.
 - Check for potential interference from other electronic devices.
- **Audio Issues:**
 - Verify that audio is present in the input signal.
 - Ensure the output device is configured to receive embedded audio.

If these steps do not resolve the issue, please refer to the support section for further assistance.

SPECIFICATIONS

Brand	Blackmagic Design
Model	CONVMUDCSTD/HD (BM-CONVMUDCSTD/HD)
Interface	HDMI, SDI
Video Conversion	SD/HD Up, Down, Cross Conversion
Power Supply	+12V Universal Power Supply (included)

Voltage Range	6 to 36 VDC
Power Consumption	5W
Item Weight	247 Grams
Material	Stainless Steel
Compatible Devices	Monitor, various video equipment
Operating Systems for Updater	Mac 10.14 Mojave, Mac 10.15 Catalina, Windows 8.1, Windows 10

WARRANTY INFORMATION

The Blackmagic Design Mini Converter UpDownCross HD comes with a **2-Year Warranty**. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the official Blackmagic Design warranty policy available on their website.

SUPPORT

For technical assistance, product inquiries, or to report initial defects, please contact Blackmagic Design Technical Support directly.

- **Email:** support-jp@blackmagicdesign.com (Please note this email is for Japan support, refer to the official Blackmagic Design website for your regional support contact.)
- **Phone:** 03-5465-2102 (Japan support line. Please visit the official Blackmagic Design website for your regional phone support.)
- **Website:** Visit the official Blackmagic Design website for comprehensive support resources, FAQs, and the latest software updates.