

Decimator DMON-4S

Decimator DMON-4S Quad (3G/HD/SD)-SDI to HDMI Multiviewer and Converter

Model: DMON-4S | Brand: Decimator

1. INTRODUCTION

The Decimator DMON-4S is a versatile Quad (3G/HD/SD)-SDI to HDMI Multiviewer and Converter designed for professional video applications. This device offers flexible configuration options, functioning as a Quad Split for SDI to HDMI conversion, a direct SDI to HDMI converter, or a 1 to 4 distribution amplifier. Its intuitive LCD and button control system allows for easy adjustment of settings without requiring a computer.



Figure 1: Overview of the Decimator DMON-4S unit.

2. KEY FEATURES

- **Superior Multiviewing:** Monitor up to four 3G/HD/SD-SDI sources simultaneously on a single HDMI display.
- **Versatile Format Support:** Accepts a wide range of SDI input formats (3G/HD/SD) and outputs in various HDMI formats up to 1080p60.
- **Easy Customization:** Intuitive LCD and button menu for quick adjustments of output formats, quad-split layouts, aspect ratios, and borders.
- **Robust Signal Processing:** Features input equalization for reliable signal transmission over long cable runs (e.g., beyond 100M using Belden 1694A cable).
- **Flexible Connectivity:** Equipped with four mini HDMI Type C outputs and optional SDI active loop outs for inputs 1 and/or 3.

3. SETUP INSTRUCTIONS

1. **Power Connection:** Connect the provided power adapter to the +5V to +32V DC input on the side of the DMON-4S unit. Ensure the power source is stable.
2. **SDI Input Connection:** Connect your 3G/HD/SD-SDI video sources to the SDI INPUT 1, 2, 3, and 4 ports. SDI INPUT 2 and 4 also offer active loop outputs for signal pass-through.
3. **HDMI Output Connection:** Connect your HDMI displays to the HDMI OUTPUT 1, 2, 3, and 4 ports. Note that these are mini HDMI Type C outputs. You may need appropriate mini HDMI to standard HDMI cables or adapters (one mini HDMI to HDMI adapter is typically supplied).
4. **USB Connection (Optional):** For firmware updates or advanced configuration via a computer, connect a USB cable from the DMON-4S to your computer.



Figure 2: SDI Input and Power Connection Ports.



Figure 3: HDMI Output and USB Connection Ports.

4. OPERATING INSTRUCTIONS

The DMON-4S features an LCD screen and four control buttons (Up, Down, Back, Enter) for navigation and configuration.

4.1. Menu Navigation

- Use the **Up** and **Down** buttons to scroll through menu options.
- Press the **Enter** button to select an option or confirm a setting.
- Press the **Back** button to return to the previous menu or cancel an action.

4.2. Configuration Modes

The DMON-4S can be configured for various operational modes:

- **Quad Split Multiviewer:** Display all four SDI inputs simultaneously on a single HDMI output. Navigate the menu to select 'Quad Split' mode and customize the layout, borders, and aspect ratios.
- **Individual SDI to HDMI Conversion:** Each SDI input can be converted to a dedicated HDMI output. Select the desired input and output pairing in the menu.
- **1 to 4 Distribution Amplifier:** Distribute a single SDI input to multiple HDMI outputs.
- **Mixed Modes:** Combine different functionalities, such as three SDI to HDMI converters with one Quad-Split output, or two SDI to HDMI converters with loop-through.

4.3. Format Conversion

The device supports conversion between various video formats (e.g., 1080p to 1080i) without loss of video quality. Access the 'Output Format' settings in the menu to select the desired resolution and frame rate for each HDMI output.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid liquid cleaners or solvents.
- **Ventilation:** Ensure the device has adequate ventilation to prevent overheating. Do not block ventilation openings.
- **Storage:** Store the DMON-4S in a cool, dry environment when not in use.
- **Cable Management:** Regularly inspect all connected cables for damage and ensure they are securely fastened.

6. TROUBLESHOOTING

- **No Video Output:**
 - Verify the power adapter is correctly connected and the unit is powered on.
 - Check all SDI input and HDMI output cable connections.
 - Ensure the input and output video formats are compatible with your display and source. Adjust settings via the LCD menu if necessary.
 - Confirm the correct operating mode (e.g., Quad Split, individual conversion) is selected.
- **Incorrect Display/Aspect Ratio:**
 - Access the menu to adjust aspect ratio and scaling settings for the selected output mode.
- **Unit Not Responding:**
 - Disconnect and reconnect the power supply to perform a soft reset.

7. SPECIFICATIONS

Feature	Detail
Model Number	DMON-4S
Product Dimensions	8 x 6 x 6 inches
Item Weight	1.75 pounds
Manufacturer	Decimator
Input Connectors	4x 3G/HD/SD-SDI (BNC)
Output Connectors	4x Mini HDMI Type C, 2x SDI Active Loop Out (BNC)
Supported HDMI Output Formats	Up to 1080p60
Power Input	+5V to +32V DC
Additional Ports	USB for configuration/firmware

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Decimator customer support directly. Refer to the official Decimator website or product packaging for the most current contact details and warranty terms.