Decimator DD-16S

Decimator DMON-16S 16-Channel Multi-Viewer Instruction Manual

Model: DD-16S | Brand: Decimator

INTRODUCTION

The Decimator DMON-16S is a sophisticated 16-Channel Multi-Viewer designed for professional video environments. This device offers comprehensive monitoring capabilities for 3G/HD/SD-SDI signals, providing both SDI and HDMI outputs. It features extensive customization options for layouts, on-screen displays, and audio metering, making it an indispensable tool for broadcast, post-production, and live event applications.

This manual provides detailed instructions for the setup, operation, and maintenance of your DMON-16S unit, ensuring optimal performance and longevity.

KEY FEATURES

- **High Resolution Output:** Supports up to 1080p at 60Hz via HDMI output for crystal-clear video quality.
- **Low Latency:** Minimal delay with high-speed 3G-SDI inputs and outputs, ideal for real-time monitoring.
- **Easy Setup:** Intuitive LCD/button menu for quick configuration of HDMI output, multi-viewer layouts, and input routing.
- **Stable Connection:** SDI input equalization supports cable runs over 100M (Belden 1694A) for robust signal integrity.
- **Wide Compatibility:** Accepts a broad range of SDI and HDMI formats, including 3G/HD/SD-SDI.
- **Customizable Layouts:** Offers custom layouts with various standard options, 16-character UMD overlays, 8-channel audio metering, Safe Action/Title overlays, and Tally system.

PRODUCT OVERVIEW

The image below illustrates the various ports and controls on the Decimator DMON-16S unit.

Figure 1: Decimator DMON-16S Front and Side View

SDI Inputs (1-16): Located on the right side, these BNC connectors accept 3G/HD/SD-SDI signals.

SDI Output: Located on the bottom left side, this BNC connector provides the multi-viewer output.

HDMI Output: Located on the left side, this port provides the HDMI multi-viewer output.

USB Port: Located on the left side, used for firmware updates and configuration via PC software.

DC Power Input (+5V to +32V DC): Located on the bottom left, for connecting the power adapter.

LCD Screen: Small display on the top surface for menu navigation and status.

Navigation Buttons (ENTER, BACK, Up/Down): Located on the top surface, used to navigate the on-screen menu.

SETUP

1. **Power Connection:** Connect the provided power adapter to the +5V to +32V DC input port on the DMON-16S. Ensure the power source meets the specified voltage range.

2. **SDI Input Connections:** Connect your SDI video sources to the SDI INPUT 1 through SDI INPUT 16 ports using appropriate BNC cables.

3. **Output Connections:**
   - For HDMI display, connect an HDMI cable from the HDMI OUTPUT port to your monitor or display device.
   - For SDI monitoring, connect an SDI cable from the SDI OUTPUT port to your SDI monitor or other SDI equipment.

4. **USB Connection (Optional):** For advanced configuration or firmware updates, connect a USB cable from the USB port on the DMON-16S to your computer. Install the necessary Decimator software from the manufacturer's website.

5. **Initial Power-Up:** Once all connections are secure, apply power to the unit. The LCD screen will illuminate, and the multi-viewer output will appear on your connected display.

OPERATING INSTRUCTIONS

Menu Navigation

The DMON-16S features an intuitive menu system accessible via the LCD screen and navigation buttons (ENTER, BACK, Up/Down arrows). Use the Up/Down arrows to scroll through menu options, ENTER to select an option or confirm a setting, and BACK to return to the previous menu or exit a setting.

Multi-Viewer Configuration

The DMON-16S allows for extensive customization of its multi-viewer display. Key configurable elements include:

- **Layouts:** Select from a variety of standard multi-viewer layouts or create custom arrangements to suit your monitoring needs.
- **UMD Overlays:** Each of the 16 windows supports a 16-character User-Defined Metadata (UMD) overlay. These can be individually enabled, positioned, and sized.
- **Audio Metering:** An 8-channel audio metering overlay is available per window. Adjust its position, size, and enable/disable as required.
- **Safe Action and Safe Title Overlays:** Enable these overlays per window to ensure critical content is within broadcast-safe areas. Individual adjustments are available.
- **Centre Cross Overlay:** A center cross can be enabled per window for precise framing.
- **Audio ID Overlay and Tally System:** The unit includes an Audio ID overlay and a flexible tally system. Tallies can be applied to Tally Boxes (default), Outside Safe Action Area, or Border, with support for up to 4 tallies per window.

Refer to the on-screen menu for detailed options and adjustments for each feature.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosols directly on the device.
- **Ventilation:** Ensure that the ventilation openings are not blocked to prevent overheating.
- **Storage:** When not in use for extended periods, store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Firmware Updates:** Periodically check the Decimator website for firmware updates to ensure your unit has the latest features and bug fixes. Updates are typically performed via the USB port.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Unit not turning on	Power adapter not connected or faulty; incorrect voltage.	Verify power adapter connection and ensure it's plugged into a working outlet. Check power adapter specifications against unit requirements (+5V to +32V DC).
No video output on display	Incorrect input/output connections; display not set to correct input; faulty cables.	Check all SDI input and HDMI/SDI output cable connections. Ensure your display is set to the correct input source (e.g., HDMI 1, SDI). Try different cables.
Input signal not detected	Source device not active; incorrect SDI format; cable length too long.	Ensure the source device is powered on and outputting a signal. Verify the SDI format is supported by the DMON-16S (3G/HD/SD-SDI). Check SDI cable length and quality.
On-screen display (OSD) issues	Incorrect menu settings; temporary software glitch.	Navigate through the menu to reset OSD settings. Power cycle the unit.

If you encounter issues not listed here or if the problem persists after attempting the solutions, please contact Decimator technical support.

SPECIFICATIONS

- **Product Dimensions:** 10 x 6.1 x 2.6 inches
- **Item Weight:** 2.95 pounds
- **Item Model Number:** DD-16S
- **Manufacturer:** Decimator
- **SDI Inputs:** 16 x 3G/HD/SD-SDI
- **Outputs:** 1 x HDMI, 1 x 3G/HD/SD-SDI
- **Power Input:** +5V to +32V DC
- **Features:** Custom layouts, UMD overlays, Audio metering, Safe Action/Title, Tally system

WARRANTY AND SUPPORT

Decimator products are designed for reliability and performance. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official Decimator Design website. Warranty information typically covers manufacturing defects for a specified period from the date of purchase.

For technical support, troubleshooting assistance, or inquiries regarding repairs, please contact Decimator Design customer service. Contact details can usually be found on their official website or in the product packaging.

Related Documents - DD-16S

	Decimator DMON-4S Quad SDI to HDMI Multi-Viewer and Converter Operating Manual Operating manual for the Decimator DMON-4S, a portable Quad (3G/HD/SD)-SDI to HDMI Multi-Viewer and Converter. This document details the device's features, menu navigation, control options, and service warranty.
	PowMr POW-LIO48 Series User Manual: Installation, Operation, and Maintenance User manual for the PowMr POW-LIO48100-16S and POW-LIO48200-16S residential energy storage lithium iron phosphate battery series. Covers installation, operation, safety, and technical specifications.
	Ariston DEOS 16s Dehumidifier User Manual Comprehensive user manual for the Ariston DEOS 16s dehumidifier, covering safe operation, maintenance, troubleshooting, and technical specifications. Learn how to use, clean, and maintain your appliance for optimal performance.
	Attogene 16s Internal Amplification Control (NA2030) - PCR Kit Detailed information on the Attogene 16s Internal Amplification Control kit (Catalog Number NA2030), including its background, test principle, applications, assay setup, qPCR protocol, and storage instructions for molecular biology research.
	Attogene Universal 16s PCR Barcoding Kit (NA2029) - Research Guide Attogene's Universal 16s PCR Barcoding Kit (NA2029) is designed for amplifying the 16s rRNA gene region in liquid gDNA samples for research purposes, including water, wastewater, and algal cultures. This guide details its principle, applications, setup, and protocols.
	PowMr POW-LIO48 Series User Manual: Residential Lithium Battery Installation & Operation Comprehensive user manual for PowMr POW-LIO48100-16S and POW-LIO48200-16S wall-mounted lithium iron phosphate batteries. Covers installation, operation, safety, and technical specifications for residential energy storage systems.