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Blackmagic Design BM-HDL-AUDMON1RU12GG3

Blackmagic Design Audio Monitor 12G G3 User Manual

Audio and Video Monitoring Solution

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Blackmagic Design Audio Monitor 12G G3. This robust, rack-mounted audio and video monitoring solution is designed for professional broadcast and post-production environments, offering comprehensive monitoring capabilities in a compact 1U form factor. Please read this manual thoroughly before operating the device to ensure proper usage and to maximize its performance.

2. Safety Information

Always observe the following safety precautions to prevent damage to the unit and ensure user safety:

- **Power Source:** Connect the unit only to the specified power supply. Ensure the power cable is not damaged or pinched.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Moisture:** Do not expose the unit to rain, moisture, or liquids.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to open or repair the unit yourself.
- **Placement:** Install the unit in a stable environment, away from extreme temperatures, direct sunlight, and strong vibrations.

3. Package Contents

Verify that all items are present in the package:

- Blackmagic Design Audio Monitor 12G G3 unit
- AC Power Cable
- Instruction Manual (this document)

If any items are missing or damaged, contact your reseller or Blackmagic Design support immediately.

4. Product Overview

4.1 Front Panel



Figure 1: Front panel of the Audio Monitor 12G G3. This view displays the integrated audio level meters, a small video display, headphone jack, and control knob for navigation and adjustments.

The front panel provides immediate access to audio and video monitoring features. Key components include:

- **Audio Level Meters:** Large, precise ballistics meters for visual monitoring of audio levels.
- **Integrated Display:** Shows video input and menu information.
- **Headphone Jack:** For private audio monitoring.
- **Control Knob:** Used for navigating menus and adjusting settings.
- **Input Selection Buttons:** To switch between various audio and video inputs.

4.2 Rear Panel



Figure 2: Rear panel of the Audio Monitor 12G G3. This view shows the power input, 10G Ethernet SMPTE-2110 IP port, HDMI output, 12G-SDI input/output, balanced analog XLR inputs, and HiFi (RCA) analog audio inputs.

The rear panel houses all necessary input and output connections:

- **AC Power Input:** Standard IEC power connector.
- **10G Ethernet SMPTE-2110 IP:** For direct monitoring of IP broadcast systems.
- **HDMI Video Output:** For external video monitoring.
- **12G-SDI Input/Output:** Supports SD, HD, and Ultra HD video signals.
- **Balanced Analog XLR Inputs:** For professional audio sources.
- **HiFi (RCA) Analog Audio Inputs:** For consumer-level audio sources.
- **AES/EBU Input:** For digital audio sources.

5. Setup

5.1 Rack Mounting

The Audio Monitor 12G G3 is designed for standard 1U rack installation. Secure the unit into a 19-inch equipment rack using appropriate rack screws (not included). Ensure sufficient space for ventilation at the front and rear of the unit.

5.2 Power Connection

1. Connect the supplied AC power cable to the IEC power input on the rear panel of the Audio Monitor 12G G3.
2. Plug the other end of the power cable into a grounded electrical outlet.
3. The unit will power on automatically once connected to power.

6. Connections

Connect your audio and video sources to the appropriate inputs on the rear panel:

- **12G-SDI Input:** Connect your SDI video source (SD, HD, or Ultra HD) to the 12G-SDI input.
- **10G Ethernet SMPTE-2110 IP:** For IP-based workflows, connect a 10G Ethernet cable from your network switch to this port.
- **Balanced Analog XLR Inputs:** Use XLR cables to connect professional analog audio sources.
- **HiFi (RCA) Analog Audio Inputs:** Use RCA cables for consumer-level analog audio sources.
- **AES/EBU Input:** Connect digital audio sources using an AES/EBU cable.
- **HDMI Video Output:** Connect an HDMI cable from this output to an external display for video monitoring.
- **Headphone Output:** Plug in headphones to the 1/4-inch jack on the front panel for personal audio monitoring.

7. Operating Instructions

7.1 Power On/Off

The unit powers on automatically when connected to an AC power source. To power off, disconnect the AC power cable.

7.2 Input Selection

Use the input selection buttons on the front panel to cycle through available audio and video inputs (e.g., SDI, IP, Analog XLR, HiFi, AES/EBU). The selected input will be indicated on the integrated display.

7.3 Audio Monitoring

- **Visual Monitoring:** Observe the audio level meters on the front panel for precise ballistics monitoring of your audio signals.
- **Auditory Monitoring:** Connect headphones to the front panel jack or use the built-in speakers for listening to the selected audio source.
- **Volume Control:** Adjust the monitoring volume using the control knob on the front panel.

7.4 Video Monitoring

When an SDI or IP video source is selected, the integrated display on the front panel will show the video feed. For larger video monitoring, connect an external display to the HDMI video output on the rear panel.

7.5 Menu Navigation

The control knob allows you to navigate through the unit's settings and menus displayed on the integrated screen. Press the knob to select an option and rotate it to scroll or adjust values.

8. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid or aerosol cleaners.
- **Firmware Updates:** Periodically check the Blackmagic Design website for firmware updates to ensure optimal performance and access to new features. Follow the instructions provided with the firmware update package.

9. Troubleshooting

If you encounter issues with your Audio Monitor 12G G3, refer to the following common problems and solutions:

- **No Power:**
  - Ensure the AC power cable is securely connected to both the unit and a live electrical outlet.
  - Check the power outlet with another device to confirm it is functional.
- **No Audio Output:**
  - Verify that the correct input source is selected on the front panel.
  - Check all audio cable connections.
  - Ensure the volume is not muted or set too low.
  - Confirm the audio source is active and producing sound.
- **No Video Display:**
  - Ensure the correct video input source is selected.
  - Check the 12G-SDI or Ethernet IP cable connections.
  - If using an external HDMI display, ensure the HDMI cable is connected and the display is set to the correct input.
  - Verify that the video source is active and outputting a signal.

For further assistance, visit the Blackmagic Design support website or contact their customer service.

10. Specifications

Feature	Detail
Product Dimensions	21 x 10.5 x 3.6 inches
Item Weight	7.37 pounds
ASIN	B0D2PWVNPG
Item Model Number	BM-HDL-AUDMON1RU12GG3
Date First Available	August 6, 2024
Manufacturer	Blackmagic Design
Input Interfaces	12G-SDI, 10G Ethernet SMPTE-2110 IP, Balanced Analog XLR, HiFi (RCA) Analog, AES/EBU
Output Interfaces	HDMI Video Output, Headphone Output
Form Factor	1U Rackmount

11. Warranty and Support

Blackmagic Design products come with a limited manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Blackmagic Design website. For technical support, product registration, and access to the latest drivers and software, please visit www.blackmagicdesign.com/support.

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