Aja KONA HDMI4R-R0

Aja KONA HDMI 4-Channel Capture Card User Manual

Model: KONA HDMI4R-R0

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Aja KONA HDMI 4-Channel Capture Card (Model: KONA HDMI4R-R0). Please read this manual thoroughly before using the product to ensure proper setup and optimal performance. Retain this manual for future reference.

2. PRODUCT OVERVIEW

The Aja KONA HDMI is a high-performance PCIe capture card designed for professional video workflows. It features four HDMI inputs, enabling multi-channel HD or dual-channel UltraHD video capture. This card is ideal for applications requiring reliable, low-latency video and image capture on compatible Mac OS systems.

Figure 2.1: Aja KONA HDMI 4-Channel Capture Card. This image displays the overall structure of the PCIe card, including the cooling fan and heatsink, which are crucial for maintaining optimal operating temperatures during intensive video capture tasks.

3. KEY FEATURES

- **4K/UltraHD Capture:** Supports high-resolution video capture for demanding professional applications.
- **Multi-Channel HD:** Capable of capturing multiple HD video streams simultaneously.
- **Low Latency:** Designed for minimal delay between input and captured output, crucial for live production and monitoring.
- **Easy Setup:** Streamlined installation process for quick integration into existing systems.
- **Stable Streaming:** Ensures consistent and reliable video stream delivery.
- **HDMI Connectivity:** Utilizes HDMI for versatile input compatibility with various cameras and video sources.

4. SYSTEM REQUIREMENTS

To ensure proper functionality of the KONA HDMI capture card, your system must meet the following minimum

requirements:

- **Operating System:** Mac OS X (specific version may vary, refer to Aja's official website for the latest compatibility).
- **Hardware:** Mac computer with an available compatible PCIe slot.
- **Compatible Devices:** Cameras or other video sources with HDMI output.

5. SETUP INSTRUCTIONS

Follow these steps to install your Aja KONA HDMI capture card:

1. **Power Off and Disconnect:** Completely shut down your Mac computer and disconnect all power cables and peripherals.
2. **Open Computer Case:** Carefully open your computer's chassis to access the internal components. Refer to your computer's manual for specific instructions on opening the case.
3. **Locate PCIe Slot:** Identify an available PCIe slot compatible with the KONA HDMI card.
4. **Install the Card:** Gently insert the KONA HDMI card into the PCIe slot, ensuring it is seated firmly. Secure the card with the retaining bracket screw, if applicable.
5. **Close Case and Reconnect:** Close the computer case and reconnect all power cables and peripherals.
6. **Install Drivers:** Power on your computer. Download and install the latest drivers and software from the official Aja website (www.aja.com/support). Follow the on-screen instructions for driver installation.
7. **Connect HDMI Sources:** Connect your HDMI video sources to the HDMI input ports on the KONA HDMI card.

Figure 5.1: HDMI Input Ports. This image highlights the four distinct HDMI input ports (HDMI 1, HDMI 2, HDMI 3, HDMI 4) on the capture card, where external video sources are connected.

6. OPERATING INSTRUCTIONS

Once the KONA HDMI card is installed and drivers are in place, you can begin capturing video:

1. **Launch Capture Software:** Open your preferred video capture or editing software that supports Aja hardware (e.g., Adobe Premiere Pro, Final Cut Pro, OBS Studio).
2. **Select KONA HDMI:** Within your software's settings, select the Aja KONA HDMI as your video input device.
3. **Configure Input Settings:** Adjust resolution, frame rate, and audio settings to match your source material and desired output. The KONA HDMI supports various resolutions up to 4K/UltraHD.
4. **Start Capture:** Initiate the capture process within your software. Monitor the input to ensure proper signal detection and quality.

5. **Multi-Channel/Dual-Channel Use:** For multi-channel HD or dual-channel UltraHD capture, configure your software to utilize the multiple HDMI inputs as required. Refer to your software's documentation for specific multi-input setup procedures.

7. MAINTENANCE

The Aja KONA HDMI card is designed for reliable operation with minimal maintenance. However, consider the following to ensure longevity:

- **Keep Drivers Updated:** Regularly check the Aja website for the latest driver and firmware updates to ensure compatibility and optimal performance.

- **Ensure Proper Ventilation:** Ensure your computer case has adequate airflow to prevent overheating, especially during prolonged capture sessions. The card's integrated fan and heatsink require clear space to function effectively.

- **Cleanliness:** Periodically inspect the card for dust accumulation, particularly on the fan and heatsink. Use compressed air to gently clean dust from the components while the computer is powered off and disconnected.

8. TROUBLESHOOTING

If you encounter issues with your KONA HDMI card, refer to the following common problems and solutions:

- **No Signal Detected:**
    - Verify that the HDMI cables are securely connected to both the source and the KONA HDMI card.
    - Ensure the video source is powered on and outputting a signal.
    - Check your capture software settings to confirm the KONA HDMI is selected as the input device and the correct input port is chosen.
    - Confirm that the input resolution and frame rate from your source are supported by the KONA HDMI card.

- **Poor Video Quality/Dropped Frames:**
    - Ensure your computer meets or exceeds the recommended system requirements, especially regarding CPU, RAM, and storage speed.
    - Update your KONA HDMI drivers and firmware to the latest versions.
    - Check for other applications consuming significant system resources.
    - Verify the quality of your HDMI cables; try a different cable if necessary.

- **Card Not Recognized by System:**
    - Ensure the card is properly seated in the PCIe slot. Power off, reseat the card, and power on again.
    - Verify that the correct drivers for your operating system are installed.
    - Check your computer's Device Manager (or System Information on Mac) to see if the card is listed.

For further assistance, please refer to the Aja support website or contact their technical support.

9. SPECIFICATIONS

Feature	Detail

Feature	Detail
Brand	Aja
Model Name	KONA HDMI4R-R0
Model Number	4178729
Hardware Interface	PCIe
Video Capture Resolution	Up to 4K/UltraHD, 1080p
Operating System	Mac OS X
Recommended Uses	Video Recording, Image Capture
Special Features	4K/UltraHD Capture, Low Latency, Easy Setup, Stable Streaming
AV Output	HDMI (4 inputs)
Compatible Devices	Camera, other HDMI video sources
Minimum System Requirements	Mac computer with a compatible PCIe slot
Item Dimensions	9 x 6 x 3 inches
UPC	812321031003
GTIN	812321031003

10. WARRANTY AND SUPPORT

Aja products are backed by a manufacturer's warranty. For detailed information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official Aja website.

For technical support, driver downloads, and additional resources, please visit the Aja support page:

www.aja.com/support