Blackmagic Design OB03535

Blackmagic Design DeckLink IP/SDI HD Instruction Manual

Model: OB03535

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Blackmagic Design DeckLink IP/SDI HD capture and playback card. Please read these instructions carefully before using the device to ensure proper functionality and to prevent damage.

2. PRODUCT OVERVIEW

The Blackmagic Design DeckLink IP/SDI HD is a high-performance capture and playback solution designed for professional video workflows. It features dual channels for 2110 IP connectivity via RJ45 Ethernet, alongside two configurable 3G-SDI connections and a reference output. This card supports high-quality video formats including Apple ProRes, DNxHD, and 10-bit uncompressed video, with support for 525i, 625i, 720p, 1080i, and 1080p video standards up to 1080p60.
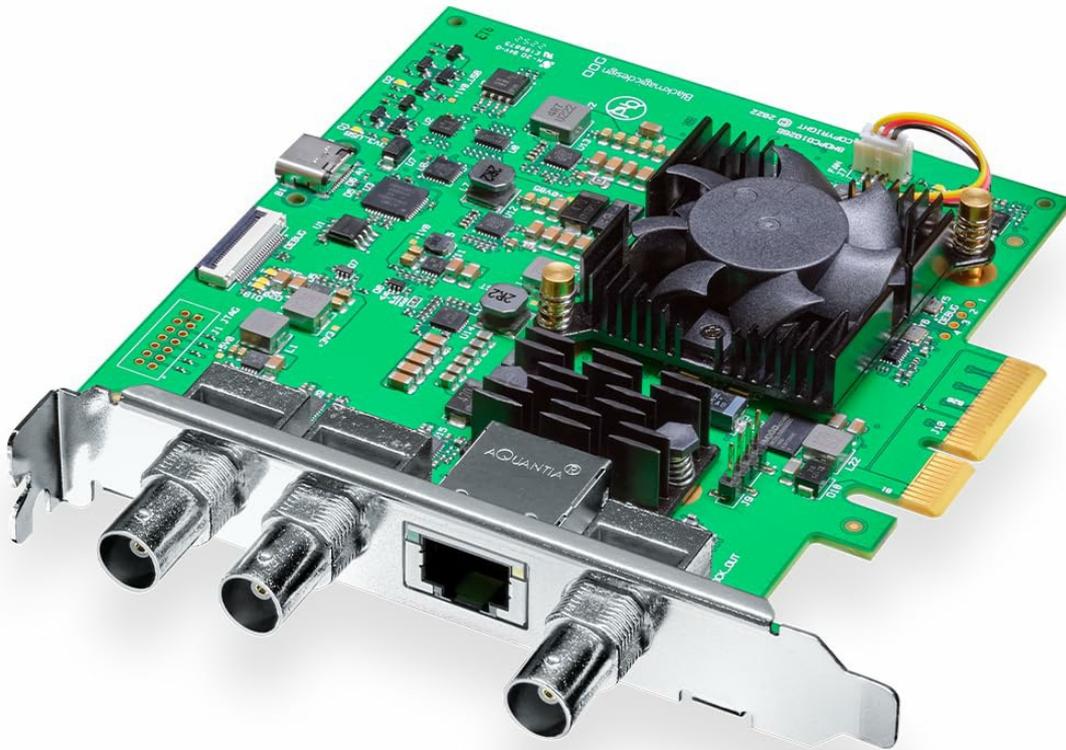
Figure 1: Blackmagic Design DeckLink IP/SDI HD card. This image shows the capture card with its various input/output ports, including SDI and Ethernet connections.

3. SETUP

3.1. Hardware Installation

1. **Power Off:** Ensure your computer is completely powered off and disconnected from the main power supply.

2. **Open Case:** Open your computer case to access the PCIe slots.

3. **Insert Card:** Carefully insert the DeckLink IP/SDI HD card into an available PCIe slot. Ensure it is seated firmly.

4. **Secure Card:** Secure the card with the retaining screw or clip provided by your computer case.

5. **Close Case:** Close your computer case and reconnect the power supply.

3.2. Software Installation

After hardware installation, you must install the Blackmagic Design Desktop Video software. This software includes drivers and utilities necessary for the DeckLink card to function.

- **Download:** Visit the official Blackmagic Design support website (www.blackmagicdesign.com/support/) and download the latest Desktop Video software for your operating system (Windows, macOS, or Linux).
- **Install:** Run the installer and follow the on-screen prompts. You may be required to restart your computer after installation.
- **Configuration:** Use the Blackmagic Desktop Video Setup utility to configure your card's settings, including video formats and audio routing.

3.3. Connecting Devices

Connect your video sources and destinations to the DeckLink IP/SDI HD card using appropriate cables.

- **3G-SDI:** Connect SDI devices to the two configurable 3G-SDI ports. These ports can be set for input or output via the Desktop Video Setup utility.
- **2110 IP:** Connect to your 2110 IP network via the RJ45 Ethernet ports. Ensure your network infrastructure is configured for ST 2110.
- **Reference:** Connect a video reference signal (e.g., black burst or tri-sync) to the reference input for synchronization with other studio equipment.

4. OPERATING INSTRUCTIONS

The DeckLink IP/SDI HD operates in conjunction with professional video software applications. The Desktop Video software provides the necessary drivers and a control panel for basic settings.

4.1. Video Capture

1. **Select Input:** In your video software (e.g., DaVinci Resolve, Adobe Premiere Pro), select the DeckLink IP/SDI HD as your video input device.
2. **Configure Settings:** Match the video format, resolution, and frame rate in your software to the incoming signal and the settings configured in the Desktop Video Setup utility.
3. **Start Capture:** Initiate capture within your chosen video application.

4.2. Video Playback

1. **Select Output:** In your video software, select the DeckLink IP/SDI HD as your video output device.
2. **Configure Settings:** Ensure the output format, resolution, and frame rate in your software match the capabilities of your monitoring device and the settings in Desktop Video Setup.
3. **Start Playback:** Begin playback from your video application.

4.3. Supported Video Standards

The DeckLink IP/SDI HD supports a range of video standards:

- 525i (NTSC)
- 625i (PAL)
- 720p (up to 720p60)
- 1080i (up to 1080i60)
- 1080p (up to 1080p60)

It also supports popular video formats such as Apple ProRes, DNxHD, and 10-bit uncompressed video.

5. MAINTENANCE

The DeckLink IP/SDI HD card requires minimal maintenance. Keep the computer environment clean and dust-free to ensure optimal performance and longevity of the card.

- **Cleaning:** Periodically clean the interior of your computer case to prevent dust buildup on the card's components. Use compressed air for this purpose.
- **Software Updates:** Regularly check the Blackmagic Design support website for updated Desktop Video software. Keeping your drivers current ensures compatibility and access to the latest features and bug fixes.

6. TROUBLESHOOTING

If you encounter issues with your DeckLink IP/SDI HD, consider the following troubleshooting steps:

- **No Video Input/Output:**
  - Verify all cables are securely connected.
  - Check that the correct input/output is selected in your video software and the Desktop Video Setup utility.
  - Ensure the video format and frame rate settings match between your source/destination and the DeckLink card.
  - Confirm the source device is outputting a signal.

- **Software Not Detecting Card:**
  - Ensure the Desktop Video software is installed correctly and is the latest version.
  - Restart your computer.
  - Check Device Manager (Windows) or System Information (macOS) to see if the card is recognized by the operating system.
  - Re-seat the card in its PCIe slot.

- **IP Connectivity Issues:**
  - Verify network cable connections.
  - Ensure your network is properly configured for ST 2110.
  - Check IP settings in the Desktop Video Setup utility.

For further assistance, refer to the Blackmagic Design support website or contact their technical support.

7. SPECIFICATIONS

Brand	Blackmagic Design
Model Number	OB03535
Hardware Interface	Ethernet, 3G-SDI
Video Capture Resolution	Up to 1080p60
Operating System Support	Windows, macOS, Linux
Item Weight	6.4 ounces (181 grams)
Product Dimensions (LxWxH)	7 x 5.5 x 1.25 inches (17.8 x 14 x 3.2 cm)
Connectivity	2x 2110 IP via RJ45 Ethernet, 2x configurable 3G-SDI, Reference Out
Supported Video Formats	Apple ProRes, DNxHD, 10-bit uncompressed

8. Warranty and Support

For detailed warranty information, please refer to the documentation included with your product or visit the official Blackmagic Design website. Blackmagic Design provides comprehensive technical support and resources.

- **Official Support Website:** www.blackmagicdesign.com/support/
- **Product Registration:** Register your product on the Blackmagic Design website to receive updates and support.