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Blackmagic Design HyperDeck Studio 4K Pro (HYPERD/ST/DG4P)

Blackmagic Design HyperDeck Studio 4K Pro Recorder Instruction Manual

MODEL: HYPERDECK STUDIO 4K PRO (HYPERD/ST/DG4P)

BRAND: BLACKMAGIC DESIGN

1. Introduction

The Blackmagic Design HyperDeck Studio 4K Pro is a professional file-based video recorder and player designed for Ultra HD workflows. This 1 RU unit integrates advanced processing capabilities for high-resolution video production. It offers extensive connectivity and media support, making it suitable for various broadcast and post-production environments.

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your HyperDeck Studio 4K Pro recorder. Please read it thoroughly to ensure optimal performance and longevity of your device.

2. Key Features

- **Ultra HD Processing:** Designed for working in Ultra HD with advanced video processing.
- **Dual Media Slots:** Features 2 x 2.5" SSD slots and 2 x SD card slots for versatile recording media.
- **Flexible Codec Support:** Records compressed in ProRes / DNxHD, Uncompressed, H.264 (SD/HD), and H.265 (Ultra HD) 10-Bit 4:2:2 formats.
- **Comprehensive Connectivity:** Includes 12G-SDI (input, loop-out, 2 outputs), HDMI 2.0 (input, output), 10G Ethernet, USB Type-C recording output, XLR Timecode, and RS-422 Device Control.
- **Integrated Controls:** Front-panel buttons, built-in speaker, jog wheel, and a 2.2-inch LCD for intuitive operation and monitoring.
- **Redundant Power:** Equipped with 2 redundant AC power supplies for enhanced reliability.

3. Setup

3.1. Power Connection

Connect the provided 6 ft power cord to one of the redundant AC power inputs on the rear panel of the HyperDeck Studio 4K Pro. Plug the other end into a compatible power outlet. For critical applications, connect a second power cord to the alternate AC input for redundancy.



Figure 1: Included 6 ft power cord and cable ties.

3.2. Media Insertion

The HyperDeck Studio 4K Pro supports both 2.5" SSDs and SD cards. Locate the media slots on the front panel.

- **SSD:** Gently slide a 2.5" SSD into one of the two SSD slots until it clicks into place.
- **SD Card:** Insert a compatible SD card (SD or UHS-II) into one of the two SD card slots until it locks.



Figure 2: Front panel with SSD and SD card slots.

3.3. Video and Audio Connections

Connect your video and audio sources to the rear panel of the HyperDeck Studio 4K Pro using appropriate cables.

- **SDI Input:** Connect your 12G-SDI video source to the 'SDI IN' BNC connector.
- **HDMI Input:** Connect your HDMI 2.0 video source to the 'HDMI IN' port.
- **SDI Outputs:** Use the two 12G-SDI outputs for program output or fill and key. The 'SDI LOOP OUT' provides a pass-through of the SDI input.
- **HDMI Output:** Connect to a monitor or other HDMI device via the 'HDMI OUT' port.
- **Audio:** SDI and HDMI connections embed audio.
- **Network:** Connect an Ethernet cable to the 10G Ethernet port for network control and file transfers.

- **Timecode/Reference:** Use XLR and BNC connectors for Timecode and Reference signals for synchronization.



Figure 3: Rear panel connections including SDI, HDMI, Ethernet, and power inputs.

4. Operating the Recorder

4.1. Basic Controls

The front panel features dedicated buttons for common operations:

- **REC:** Press to start recording.
- **PLAY:** Press to start playback.
- **STOP:** Press to stop recording or playback.
- **SKIP/REW/FFWD:** Navigate through clips.
- **INPUT:** Select the input source.
- **MENU/SET:** Access and confirm menu settings.
- **JOG/SCR:** Use the jog wheel for precise frame-by-frame navigation.



Figure 4: Front panel controls and LCD display.

4.2. Recording

Ensure compatible media (SSD or SD card) is inserted and formatted. Select your desired input source and recording format via the menu. Press the **REC** button to begin recording. The built-in LCD will display recording status and time remaining.

4.3. Playback

Navigate to your desired clip using the skip buttons or jog wheel. Press the **PLAY** button to start playback. The video will be output through the selected SDI or HDMI output.

5. Maintenance

5.1. Cleaning

Regularly clean the exterior of the HyperDeck Studio 4K Pro with a soft, dry cloth. Avoid using liquid cleaners or solvents, as these can damage the finish or internal components. Ensure all media slots are free of dust and debris.

5.2. Firmware Updates

Periodically check the Blackmagic Design website for firmware updates. Keeping your device's firmware up-to-date ensures access to the latest features, performance improvements, and bug fixes. Follow the instructions provided by Blackmagic Design for safe firmware installation.

6. Troubleshooting

- **No Power:** Ensure the power cord is securely connected to both the unit and a live power outlet. Verify that the power outlet is functioning.
- **No Video Input:** Check all SDI and HDMI cable connections. Confirm that your source device is outputting a compatible video signal and format.
- **Recording Issues:** Verify that media (SSD/SD card) is inserted correctly, has sufficient free space, and is formatted to a compatible file system. Check the selected recording codec and resolution settings.
- **Playback Issues:** Ensure the media containing the recorded clips is properly inserted. Check the selected output format matches your monitoring device.
- **Network Connectivity Problems:** Confirm the Ethernet cable is connected. Check network settings on the device and your network infrastructure.

7. Specifications

Feature	Detail
Item Model Number	HYPERRD/ST/DG4P
Connectivity Technology	Ethernet, HDMI
Compatible Devices	Television
Number of Channels	2
Media Format Digital Video	SD Card, SSD
Inputs	1 x BNC, 12G-SDI; 1 x HDMI 2.0; 16 x Channels SDI Embedded Audio; 16 x Channels HDMI Embedded Audio; 1 x XLR, Timecode; 1 x BNC, Reference; 1 x RJ45, 10 Gb/s; 1 x RS-422 Device Control.
Outputs	1 x BNC SDI, Loop-Out; 2 x BNC, 12G-SDI; 1 x SDI, Monitor Output; 1 x HDMI 2.0; 8 x Channels SDI Embedded Audio; 8 x Channels HDMI Embedded Audio; 1 x USB Type-C Out; 1 x XLR, Timecode; 1 x BNC, Reference; 1 x RS-422 Device Control.

8. Warranty and Support

For detailed warranty information and technical support, please refer to the official Blackmagic Design website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Related Documents - HyperDeck Studio 4K Pro (HYPERRD/ST/DG4P)

	<p>Blackmagic Design HyperDeck Shuttle 4K Pro: Technische Daten und Spezifikationen</p> <p>Umfassende technische Daten und Spezifikationen für den Blackmagic Design HyperDeck Shuttle 4K Pro, einen fortschrittlichen 4K-Rekorder und Player mit 7-Zoll-Touchscreen, 12G-SDI, 10G-Ethernet und Unterstützung für ProRes, H.264/H.265.</p>
	<p>Blackmagic HyperDeck Shuttle Installation and Operation Manual</p> <p>This manual provides comprehensive installation and operation instructions for the Blackmagic HyperDeck Shuttle HD, HyperDeck Shuttle 4K Pro, and HyperDeck Shuttle 4K Pro 2TB. Learn about setup, recording, playback, settings, and advanced features.</p>
	<p>Blackmagic Cloud Store Operation Manual</p> <p>Comprehensive operation manual for the Blackmagic Cloud Store series, detailing setup, features, and troubleshooting for high-speed, high-capacity network storage solutions used in professional media workflows.</p>
	<p>Blackmagic Studio Converter: Setup, Features, and Connections Guide</p> <p>Comprehensive guide to the Blackmagic Studio Converter, covering setup, connections to cameras and ATEM switchers, front and rear panel features, menu settings, and talkback/tally configurations.</p>
	<p>Manual de Instalación y Funcionamiento Blackmagic URSA Broadcast</p> <p>Guía completa de instalación y operación para la cámara Blackmagic URSA Broadcast y sus accesorios, cubriendo configuración, grabación, controles y ajustes para profesionales de video.</p>
	<p>Blackmagic Design Desktop Video Installation and Operation Manual</p> <p>Comprehensive guide to installing and operating Blackmagic Design's Desktop Video hardware, including DeckLink, UltraStudio, and Intensity, with instructions for software setup and integration with professional video editing applications.</p>