Datavideo HRS-30

Datavideo HRS-30 Portable Recorder Monitor User Manual

Model: HRS-30

1. INTRODUCTION

The Datavideo HRS-30 is a versatile portable recorder and integrated 10.1-inch monitor designed for professional field recording and playback applications. This device supports both HD and SD video equipment, accepting signals via HD/SD-SDI inputs. It is compatible with various video formats including 1080i, 720p, 576i, and 480i.

The HRS-30 offers flexible recording formats, including MPEG-II Long-GOP or intra-frame (i-frame) with 4:2:2 color sampling. Recorded files are stored in the MXF/OP1A format, ensuring compatibility with a wide range of Non-Linear Editing (NLE) systems and playout solutions. Storage is facilitated by a removable caddy, compatible with standard 2.5-inch HDD and SSD drives.

Figure 1.1: Front view of the Datavideo HRS-30 Portable Recorder Monitor, showing the integrated screen and control interface.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the HRS-30. Failure to follow these instructions may result in electric shock, fire, or damage to the unit.

- **Power Source:** Use only the specified power adapter and ensure the voltage matches the unit's requirements.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Water and Moisture:** Do not expose the unit to rain, moisture, or immerse it in water.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Placement:** Place the unit on a stable, level surface. Avoid placing it in direct sunlight or near heat sources.

3. PACKAGE CONTENTS

Verify that all items are present in the package. If any items are missing or damaged, contact your dealer immediately.

- Datavideo HRS-30 Portable Recorder Monitor Unit
- Power Adapter
- Removable Caddy for 2.5" HDD/SSD
- User Manual (this document)
- Additional accessories as specified by your retailer

4. SETUP

Follow these steps to set up your HRS-30 unit for operation.

4.1 Installing Storage Media

1. Ensure the HRS-30 is powered off.
2. Locate the removable caddy slot on the unit.
3. Insert a compatible 2.5-inch HDD or SSD into the removable caddy.
4. Slide the caddy with the installed drive into the HRS-30's caddy slot until it clicks securely into place.

4.2 Connecting Power

1. Connect the power adapter to the DC IN 12V port on the rear of the HRS-30.
2. Plug the power adapter into a suitable electrical outlet.
3. Press the POWER switch on the rear panel to turn on the unit.

4.3 Video and Audio Connections

The HRS-30 supports various input and output connections. Refer to the rear panel diagram for port locations.

Figure 4.1: Rear panel connections of the Datavideo HRS-30, including SDI, HDMI, Timecode, and Power inputs/outputs.

- **SDI Input:** Connect your HD/SD-SDI video source to the SDI IN port. The unit also features an SDI LOOP THRU for connecting to another device.
- **HDMI Output:** Connect an external monitor or display to the HDMI OUT port for video monitoring.
- **Timecode:** Use the TIME CODE IN/OUT ports for external timecode synchronization.
- **BB/EXT.SYNC:** Connect Black Burst or external sync signals to the BB/EXT.SYNC IN/OUT ports.

- **Service Port:** For firmware upgrades and maintenance.

5. OPERATING INSTRUCTIONS

This section details the basic operation of the HRS-30 for recording and playback.

5.1 Powering On and Initial Screen

1. Ensure all necessary connections are made and the storage caddy is installed.
2. Flip the POWER switch on the rear panel to the 'ON' position.
3. The integrated 10.1-inch monitor will display the boot-up sequence, followed by the live video input or the last recorded clip.

5.2 Recording Video

The HRS-30 records video from HD/SD-SDI sources in various formats.

1. **Select Input:** Use the control panel buttons to select the desired SDI input source.
2. **Monitor Input:** Verify the incoming video signal on the integrated monitor.
3. **Start Recording:** Press the **REC** button on the control panel to begin recording. The recording indicator will illuminate.
4. **Stop Recording:** Press the **STOP** button to end the recording. The recording indicator will turn off.

The HRS-30 supports recording in MPEG-II Long-GOP or intra-frame (i-frame) with 4:2:2 color sampling, producing MXF/OP1A files.

5.3 Playback

To review recorded content:

1. **Access Playback Mode:** Use the navigation buttons to enter playback mode.
2. **Select Clip:** Browse through your recorded clips using the navigation controls.
3. **Start Playback:** Press the **PLAY** button to start playback of the selected clip.
4. **Control Playback:** Use the **PAUSE**, **FFW** (Fast Forward), and **REW** (Rewind) buttons to control playback.

5.4 Menu Navigation

The HRS-30 features an on-screen menu system for configuring settings such as video format, recording quality, audio settings, and system preferences. Use the MENU button and directional arrows to navigate, and the ENTER button to confirm selections.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your HRS-30.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. For the screen, use a specialized screen cleaning solution and a microfiber cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the HRS-30 in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Firmware Updates:** Periodically check the Datavideo website for firmware updates to ensure your unit has the latest features and bug fixes. Follow the instructions provided with the firmware update carefully.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with the HRS-30.

Problem	Possible Cause	Solution
Unit does not power on	No power, faulty adapter, power switch off	Check power cable connection, verify power outlet, ensure power switch is ON.
No video on screen	Incorrect input selected, no signal from source, faulty cable	Select correct input, check video source, replace SDI/HDMI cable.
Cannot record	No storage media, full storage, media error	Ensure caddy with drive is installed, check available storage space, format or replace drive if necessary.
Playback issues	Corrupt file, incompatible format	Try playing another clip. Ensure recorded files are not corrupted.

8. SPECIFICATIONS

Detailed technical specifications for the Datavideo HRS-30.

- **Model:** HRS-30
- **Visible Screen Diagonal:** 10 inches / 26 cm
- **Product Dimensions:** 10.83 x 10.24 x 3.94 inches (27.5 x 26 x 10 cm)
- **Item Weight:** 7.92 pounds (3.6 kg)
- **Video Inputs:** HD/SD-SDI
- **Video Outputs:** HDMI, SDI Loop Thru
- **Supported Video Formats:** 1080i, 720p, 576i, 480i
- **Recording Formats:** MPEG-II Long-GOP, Intra-frame (i-frame) with 4:2:2 color sampling
- **File Format:** MXF/OP1A
- **Storage Media:** Removable caddy for 2.5" HDD & SSD drives
- **Manufacturer:** Datavideo
- **Date First Available:** March 23, 2016

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Datavideo website or contact your authorized Datavideo dealer. Keep your purchase receipt as proof of purchase for warranty claims.

Related Documents - HRS-30

	Datavideo HDR-60 HD/SD Digital Video Recorder Instruction Manual This document provides comprehensive instructions for operating the Datavideo HDR-60 HD/SD Digital Video Recorder, covering setup, recording, playback, file management, system configuration, and technical specifications.
	Datavideo DAC-91 SDI Audio Embedder: Instruction Manual and Specifications Comprehensive guide to the Datavideo DAC-91 SDI Audio Embedder, detailing its features, setup, firmware updates, and technical specifications for professional video and broadcast applications.
	Datavideo HDR-70 HD/SD Digital Video Recorder Instruction Manual Comprehensive instruction manual for the Datavideo HDR-70 HD/SD Digital Video Recorder, covering setup, operation, recording, playback, system configuration, firmware updates, and technical specifications.
	Datavideo HDR-60 HD/SD Digital Video Recorder Instruction Manual This instruction manual provides comprehensive details on the Datavideo HDR-60 HD/SD Digital Video Recorder, covering its features, connections, setup, recording, playback, and technical specifications for professional video production workflows.
	Datavideo HDR-70 HD/SD-SDI Digital Video Recorder Operation Manual Comprehensive operation manual for the Datavideo HDR-70, a professional HD/SD-SDI digital video recorder. Learn about its features, setup, recording, playback, and system configurations.
	Datavideo NVS-33 H.264 Video Streaming Encoder and MP4 Recorder Overview of the Datavideo NVS-33, an H.264 video streaming encoder and MP4 recorder. Featuring HD-SDI and HDMI inputs, it supports RTMP, RTSP, and HLS protocols for simultaneous streaming and recording to SD cards. Ideal for broadcast and AV markets.