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AVIDEONE HW7S

AVIDEONE 7" On-Camera Field Monitor User Manual

Model: HW7S

Comprehensive instructions for setup, operation, and maintenance of your AVIDEONE HW7S Field Monitor.

1. Product Overview

The AVIDEONE HW7S is a high-brightness 7-inch on-camera field monitor designed for professional videography and photography. It features a 1920x1200 IPS display, 2000 Nits brightness for outdoor visibility, and extensive connectivity options including 4K HDMI and 3G-SDI ports. The monitor supports advanced color processing features like HDR and 3D-LUT, and offers intuitive touch screen control for various camera assist functions.



Figure 1.1: AVIDEONE HW7S 7-inch On-Camera Field Monitor and included accessories.

2. Key Features

- **2000nit Ultra-Bright Display:** 7-inch IPS screen with 1920x1200 Full HD resolution and 2000 Nits brightness for clear outdoor viewing.
- **Versatile Connectivity:** Equipped with 4K HDMI 2.0 (up to 2160p60Hz) and 3G-SDI (up to 1080p60) ports, supporting signal loop output.
- **Advanced Color Processing:** Supports Color calibration (BT709 default), HDR (ST2084 300/1000/10000, HLG), and 3D-LUT with 17 default logs and 6 user-definable logs via U disk.
- **Intuitive Touch Screen:** High-quality industrial LCD with 50000H lifetime, enabling easy access to menus and camera assist functions via touch commands.
- **Flexible Power System:** Compatible with NP-F series camera batteries and supports DC IN 7-24V power supply for both indoor and outdoor use.
- **Camera Control:** Allows control of certain camera functions (Focus, Zoom, Iris, Record) via a LANC cable connection.



Figure 2.1: Visual representation of the monitor's key features.

3. Package Contents

Verify that all items listed below are included in your package:

- AVIDEONE HW7S 7" On-Camera Field Monitor
- HDMI A-D cable x 1
- Mini Shoe mount x 1
- USB drive disk x 1
- LANC Cable x 1
- 12V Power Adapter x 1
- User Guide x 1 (This manual)

4. Setup Guide

4.1 Powering the Monitor

The HW7S monitor offers two power options:

- **NP-F Series Battery:** Insert a compatible NP-F series battery into the battery plate on the rear of the monitor. The monitor supports dual battery slots for extended operation.
- **DC Power Adapter:** Connect the included 12V power adapter to the DC IN port (7-24V) on the monitor and plug it into a power outlet.



Figure 4.1: Flexible battery system and power output capability.

4.2 Connecting Video Sources

Connect your camera or video source to the monitor using either the HDMI or 3G-SDI ports:

- **HDMI Connection:** Use the provided HDMI A-D cable to connect your camera's HDMI output to the HDMI IN port on the monitor. The monitor supports up to 4K (2160p60Hz) HDMI input.
- **3G-SDI Connection:** Connect your camera's SDI output to the SDI IN port on the monitor. The monitor supports up to 1080p60 3G-SDI input.

Both HDMI and 3G-SDI ports also support loop output, allowing you to send the signal to another monitor or device simultaneously.

4.3 Mounting the Monitor

Attach the monitor to your camera rig or stand using the included Mini Shoe mount or other compatible mounting accessories. The monitor features multiple mounting points for versatile positioning.

5. Operating Instructions

5.1 Touch Screen Operation

The HW7S monitor features a responsive touch screen for easy navigation and control. Simply tap or swipe on the screen to access menus and adjust settings.

- **Accessing Menus:** Swipe down from the top of the screen to reveal the main function menu.
- **Adjusting Settings:** Tap on icons or sliders to modify volume, backlight, display options, zoom, and zoom position.
- *Note: The touch function can be toggled on/off via the POWER button.*



Figure 5.1: Touch control interface for quick adjustments.

5.2 Camera Control via LANC Cable

For compatible Sony video cameras, the LANC cable enables direct control of certain camera functions from the monitor. Connect the LANC cable from the monitor's dedicated port to your camera's LANC port.

- **Accessing Camera Control UI:** Tap the "camera" icon on the right side of the monitor's menu.
- **Available Controls:**

- **Focus:** Control the focus of the video camera.
- **Zoom:** Control the zoom in and out of the video camera lens.
- **Iris:** Control the aperture size of the video camera.
- **Record:** Control the record function (start/stop) of the video camera.

- *Note: Some cameras may not support all control functions via LANC.*



Figure 5.2: Camera control functionality via LANC cable.

5.3 Color Processing and Assist Functions

The HW7S monitor provides professional tools to ensure accurate color and exposure:

- **HDR Support:** Supports ST2084 300/1000/10000 and HLG, allowing for clearer display of details in both highlights and shadows.
- **3D-LUT:** Built-in with 17 default logs and supports importing up to 6 user 3D LUTs via the included USB drive. This allows for real-time preview of your desired color grade.
- **Camera Assist Functions:** Access various tools to aid in critical focus and exposure, including:

- Waveform
- Histogram
- False Color
- Peaking Focus
- Anamorphic De-squeeze (1.33X, 1.5X, 1.8X, 2X)
- Exposure
- Vector Scope
- Pixel Zoom
- Level Meter
- Check Field
- Image Flip
- Marker
- Freeze
- Timecode



Figure 5.3: Overview of camera assist functions.



Figure 5.4: HDR display comparison.



Figure 5.5: 3D LUT functionality for color grading preview.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the monitor's exterior. For the screen, use a microfiber cloth specifically designed for electronics displays. Avoid harsh chemicals or abrasive materials.
- **Storage:** When not in use, store the monitor in a cool, dry place, away from direct sunlight and extreme temperatures. Use a protective case to prevent scratches and damage.
- **Battery Care:** If using NP-F batteries, follow the manufacturer's guidelines for charging and storage to maximize battery life. Remove batteries if the monitor will not be used for an extended period.

7. Troubleshooting

This section addresses common issues you might encounter with your AVIDEONE HW7S monitor.

Problem	Possible Cause	Solution
Monitor does not power on.	Battery is depleted or not inserted correctly. DC power adapter is not connected or faulty.	Ensure battery is fully charged and correctly seated. Verify DC power adapter connection and try a different power outlet.
No video signal displayed.	Incorrect input source selected. HDMI/SDI cable is loose or damaged. Camera output settings are incorrect.	Check the monitor's input settings to ensure the correct source (HDMI/SDI) is selected. Securely connect the video cable. Try a different cable if available. Verify your camera's video output settings (resolution, frame rate) are compatible with the monitor.
Touch screen is unresponsive.	Touch function is disabled. Temporary software glitch.	Press the POWER button to toggle the touch function on/off. Restart the monitor.
Camera control via LANC not working.	LANC cable is not connected properly. Camera is not compatible or settings are incorrect.	Ensure the LANC cable is securely connected to both the monitor and the camera. Consult your camera's manual for LANC compatibility and settings.

Frequently Asked Questions (FAQs)

- **Q: What live streaming software can be used with this monitor?**
  A: The monitor is compatible with various live streaming software such as Wirecast, vMix, OBS Studio, and XSplit.
- **Q: Can I live stream to multiple platforms simultaneously?**
  A: Yes, the monitor is compatible with vMix/OBS and other live video streaming software that supports simultaneous streaming to platforms like Facebook and YouTube.

8. Specifications

Feature	Detail
Model Number	HW7S
Screen Size	7 Inches
Resolution	1920 x 1200 Pixels (UXGA Wide)
Image Brightness	2000 Nits
Aspect Ratio	16:9
Screen Surface Description	Glossy
Input Ports	4K HDMI 2.0, 3G-SDI
Output Ports	HDMI Loop Out, 3G-SDI Loop Out
Power Input	DC IN 7-24V, NP-F Series Battery
Item Weight	2.44 pounds
Package Dimensions	8.19 x 5.87 x 3.58 inches
Manufacturer	AVIDEONE
Date First Available	December 19, 2022

9. Warranty and Support

AVIDEONE offers a one-year warranty for the HW7S On-Camera Field Monitor. This warranty covers defects in materials and workmanship under normal use.

For any questions, technical assistance, or warranty claims, please contact AVIDEONE customer support. You can find more information and support resources by visiting the official AVIDEONE store on Amazon: AVIDEONE Store.

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