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## Portkeys HS7T

# Portkeys HS7T II 7-Inch DSLR Camera Field Monitor User Manual

Model: HS7T | Brand: Portkeys

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## 1. INTRODUCTION

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The Portkeys HS7T II is a high-brightness 7-inch DSLR camera field monitor designed for professional videography and filmmaking. It features a 1920x1200 resolution display with 1200 Nits brightness, ensuring clear visibility even in daylight conditions. The monitor supports 4K HDMI and 3G-SDI inputs and outputs without delay, offering robust connectivity. Built with a durable CNC metal frame and tempered glass panel, it is engineered for reliability in various production environments. Advanced monitoring tools such as 3D LUT, Histogram, Peaking, False Color, and Audio Levels Meters are integrated to assist with precise image control.



Figure 1: Portkeys HS7T II 7-inch field monitor with high brightness display.

## 2. WHAT'S IN THE BOX

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

- 1 × HS7T Monitor
- 1 × D-TAP B ANTO - 4 PIN Aerial Cable
- 1 × Cleaning Cloth
- 1 × USB drive
- 1 × Black gift box

## 3. SETUP

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### 3.1 Powering the Monitor

The HS7T II monitor offers flexible power options to suit various shooting scenarios:

- **V-Mount Batteries:** Connect a V-mount battery via the provided D-TAP B ANTO - 4 PIN Aerial Cable.
- **NP-F Series Batteries:** The monitor features dual swappable battery plates compatible with NP-F series batteries for extended operation.
- **Dummy Battery Support:** Utilize a dummy battery to power your camera directly from the monitor, simplifying your power setup.



Figure 2: Dual battery plates for uninterrupted power supply.

### 3.2 Connecting Video Sources

The monitor supports both HDMI and 3G-SDI connections:

- **HDMI Input/Output:** Connect your camera or other video source using a 4K HDMI cable to the HDMI IN port. The HDMI OUT port allows for signal pass-through to another display.
- **3G-SDI Input/Output:** For professional setups, use the 3G-SDI IN port for camera connection and 3G-SDI OUT for signal pass-through.



Figure 3: Rear panel with HDMI and 3G-SDI input/output ports.

### 3.3 Mounting the Monitor

The HS7T II features a NATO sliding mounting bracket for secure and flexible attachment to camera rigs or stands.



Figure 4: NATO sliding mounting bracket for versatile attachment.

## 4. OPERATION

### 4.1 Basic Navigation

Use the **MENU**, **EXIT**, and **INPUT** buttons located on the top of the monitor to navigate through settings and switch between input sources. Customizable function buttons (F1-F4) allow quick access to frequently used features.

## 4.2 Display Features

- **High Brightness:** The 1200 Nit screen ensures excellent visibility outdoors and in bright conditions.
- **High Resolution:** A 1920x1200 resolution provides sharp and detailed images for critical focus.
- **High Contrast:** A 1200:1 contrast ratio delivers rich blacks and vibrant colors.

## 4.3 Advanced Monitoring Tools

The HS7T II integrates a suite of professional monitoring tools:

- **3D LUT Support:** Store up to 20 sets of 3D LUT files for accurate color grading and previewing log footage.
- **Audio Levels Meters:** Monitor audio input levels to prevent clipping and ensure optimal sound recording.
- **Histogram:** Visualize the tonal distribution of your image to prevent overexposure or underexposure.
- **Aspect Ratio Guides:** Overlay various aspect ratio guides for precise framing.
- **Peaking:** A new peaking algorithm enhances focus assist, making focus more precise.
- **DSLR Scaling & Zooming:** Adjust image scaling and zoom for detailed inspection of your footage.
- **False Color:** Use false color to evaluate exposure levels across your image.
- **Pixel to Pixel:** View the image at its native resolution for critical focus and detail checking.



Figure 5: Enhanced peaking feature for accurate focus.

## 4.4 Wireless Video Transmission Integration

The HS7T II is designed to integrate with wireless video transmission systems like Claymore. When connected, the monitor can function as a wireless receiver, streamlining your setup and reducing cable clutter. The monitor can also power compatible wireless transmitters.

**Your browser does not support the video tag.**

Video 1: Demonstrating the Portkeys HS7T II display and its integration with wireless video transmission. This video highlights the monitor's features and connectivity options in a practical setting.



Figure 6: Monitor compatible with wireless video transmission systems.

## 5. MAINTENANCE

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- **Cleaning:** Use the provided cleaning cloth or a soft, lint-free cloth to gently wipe the screen and body. Avoid abrasive materials or harsh chemicals.
- **Storage:** When not in use, store the monitor in a protective case to prevent scratches and damage.
- **Environmental Conditions:** Avoid exposing the monitor to extreme temperatures, high humidity, or direct sunlight for prolonged periods.
- **Physical Protection:** The CNC metal frame and tempered glass panel offer robust protection, but care should still be taken to avoid drops or impacts.



Figure 7: Rugged CNC metal construction with cooling holes for durability.

## 6. TROUBLESHOOTING

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If you encounter issues with your Portkeys HS7T II monitor, refer to the following common problems and solutions:

### 1. Monitor Does Not Power On:

- Ensure batteries are fully charged and correctly inserted.
- Verify that the D-TAP cable is securely connected to both the monitor and the power source.

- If using a dummy battery, confirm it is properly connected and the external power source is active.

## 2. No Video Signal:

- Check that the HDMI or SDI cable is securely connected to both the camera/source and the monitor.
- Confirm the camera's video output settings match the monitor's input capabilities (e.g., resolution, frame rate).
- Ensure the correct input source (HDMI or SDI) is selected on the monitor.

## 3. Dummy NP Battery Not Providing Power:

- Verify that the monitor itself is powered on and receiving sufficient power.
- Ensure the dummy battery is correctly seated in its slot.
- Test with a different dummy battery or external device if possible to isolate the issue.

## 4. Battery Slots Not Locking Securely:

- Ensure batteries are inserted correctly and fully engaged.
- If the issue persists, contact customer support for assistance.

## 5. Image Quality Issues (e.g., blue dot, screen pushes in):

- Inspect the screen for any physical damage.
- If these issues are present upon initial use, it may indicate a manufacturing defect. Refer to the warranty section for replacement or repair options.

# 7. SPECIFICATIONS

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Feature	Detail
Product Dimensions	7.5 x 4.9 x 0.8 inches
Item Weight	12.3 ounces
Model Number	HS7T
Screen Size	7 Inches
Resolution	1920 x 1200 Pixels (2K DCI 1080p)
Image Brightness	1200 Nits
Contrast Ratio	1200:1
Aspect Ratio	1.60:1
Voltage	24 Volts
Total USB Ports	1
Connectivity	HDMI, 3G-SDI
Screen Surface	Glossy
Manufacturer	Portkeys
First Available Date	August 24, 2018

## 8. WARRANTY AND SUPPORT

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The Portkeys HS7T II monitor comes with a **one-year warranty** from the date of purchase. This warranty covers manufacturing defects and issues arising from normal use. If you encounter any problems or require technical assistance, please contact Portkeys customer support. Free technical support is available to assist you with any operational or technical queries.

For support, please visit the official Portkeys website or refer to the contact information provided in your product packaging.