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Portkeys HD7T

Portkeys HD7T Camera Monitor User Manual

Model: HD7T | Brand: Portkeys

1. INTRODUCTION

The Portkeys HD7T is a 7-inch high-brightness touchscreen field monitor designed for professional videography and photography. It offers a 1000-nit display, 4K HDMI input, and a suite of professional monitoring tools to assist with precise exposure, focus, and color control during filming. Its lightweight and durable design makes it suitable for various shooting environments.



Figure 1.1: Front view of the Portkeys HD7T Camera Monitor, showcasing its touchscreen interface.

2. WHAT'S IN THE BOX

Verify that all components are present in the package before proceeding with setup.

- Camera Monitor
- Sunshade
- HDMI Cable (A to A)
- HDMI Cable (A to D/Micro)
- 360° Rotatable Ball Head Mount
- AV Cable
- Pair of Rubber Covers

Figure 2.1: Included accessories list.

3. KEY FEATURES

3.1 Bright 7-Inch Display with 1000 Nits

The HD7T features a 1280 × 800 HD panel with 1000 nits of high brightness, an 1000:1 contrast ratio, and a matte anti-glare screen. This design reduces reflections, improving visibility, especially for outdoor shooting in daylight. A sun hood is included to further enhance viewing clarity in bright environments.



Figure 3.1: The 1000-nit display with included sunshade for enhanced outdoor visibility.

Ultimate Experience

IPS HD Matte Screen



Rec.709

Professional Color
Gamut Coverage



1280×800

Resolution



1000: 1

Contrast Ratio



8BITS

Color Depth



Figure 3.2: IPS HD Matte Screen details, highlighting resolution and color accuracy.

3.2 4K HDMI Input & Audio Output

The monitor supports video resolutions up to 4K@30p via HDMI. It includes a 3.5mm headphone jack for real-time audio monitoring and an additional AV input, making it suitable for DSLR and mirrorless camera setups.

4K Monitoring

4K30P HDMI Input



Figure 3.3: HDMI input for 4K monitoring.

AV IN Port

AV IN



Figure 3.4: AV input port for broader compatibility.

3.3 Professional Monitoring Tools

Equipped with essential tools for precise exposure and focus control, including luma histogram, false color, focus peaking, zoom, and anamorphic de-squeeze (1.33x, 1.5x, 2.0x, and custom ratios). The monitor supports user-imported 3D LUTs for accurate color preview and creative look monitoring (note: LUT output is not supported).

Feature Collection

Various shooting assisting tools, powerful assistive system makes shooting more accurate

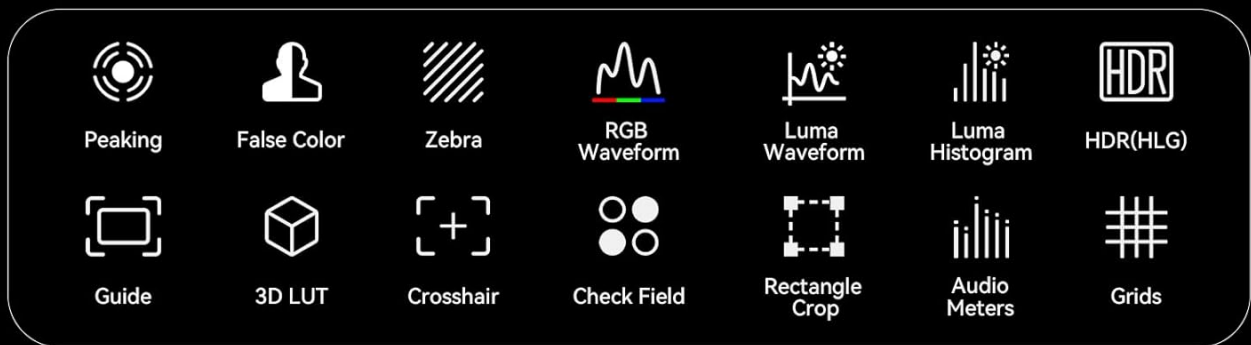
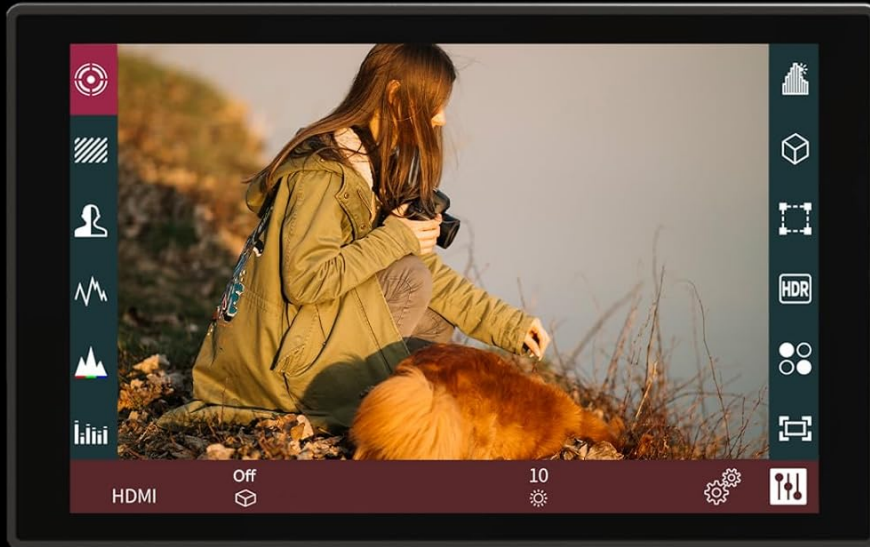


Figure 3.5: Overview of professional monitoring tools available on the HD7T.

3.4 Lightweight, Portable & Mount-Friendly

Weighing only 245g (8.64oz), the monitor features 1/4"-20 mounting threads on three sides, allowing for versatile rig, arm, or tripod setups. Its high-density engineering plastic structure ensures exceptional lightness while maintaining body strength, reducing weight by 30% compared to similar devices.

Matte Screen Design

Lightweight Design

Utilizes a high-density engineering plastic structure to achieve exceptional lightness while ensuring body strength, reducing weight by 30% compared to similar monitoring devices.

As Thin as
20.8mm

As Light as
245g



Figure 3.6: Lightweight design and dimensions of the HD7T.

3.5 Flexible Power Options & Durable Build

Compatible with NP-F batteries or 7.4~24V DC input for extended runtime flexibility. The rugged ABS+PC housing ensures durability in demanding production environments. (Note: Battery is not included).

4. SETUP

4.1 Powering the Monitor

1. **Battery Installation:** Insert a compatible NP-F series battery into the battery plate on the rear of the monitor. Ensure it clicks securely into place.
2. **DC Power:** Alternatively, connect a 7.4V to 24V DC power adapter to the DC input port.

4.2 Mounting the Monitor

1. Attach the included 360° rotatable ball head mount to one of the 1/4"-20 mounting threads on the monitor (top, bottom, or side).
2. Secure the ball head mount to your camera's hot shoe, a cage, or a tripod.

4.3 Connecting to a Camera

1. **HDMI Connection:** Use the appropriate HDMI cable (A to A or A to D/Micro) to connect your camera's HDMI output to the HDMI input port on the monitor.
2. **AV Connection:** For devices with AV output, connect the AV cable to the AV IN port on the monitor.
3. **Audio Monitoring:** Connect headphones to the 3.5mm audio output jack for real-time audio monitoring.

5. OPERATING THE MONITOR

5.1 Touchscreen Interface

The HD7T features a full touchscreen control with an intuitive user interface. Navigate menus and adjust settings by tapping and swiping on the screen. Key buttons are easily accessible for quick operation.

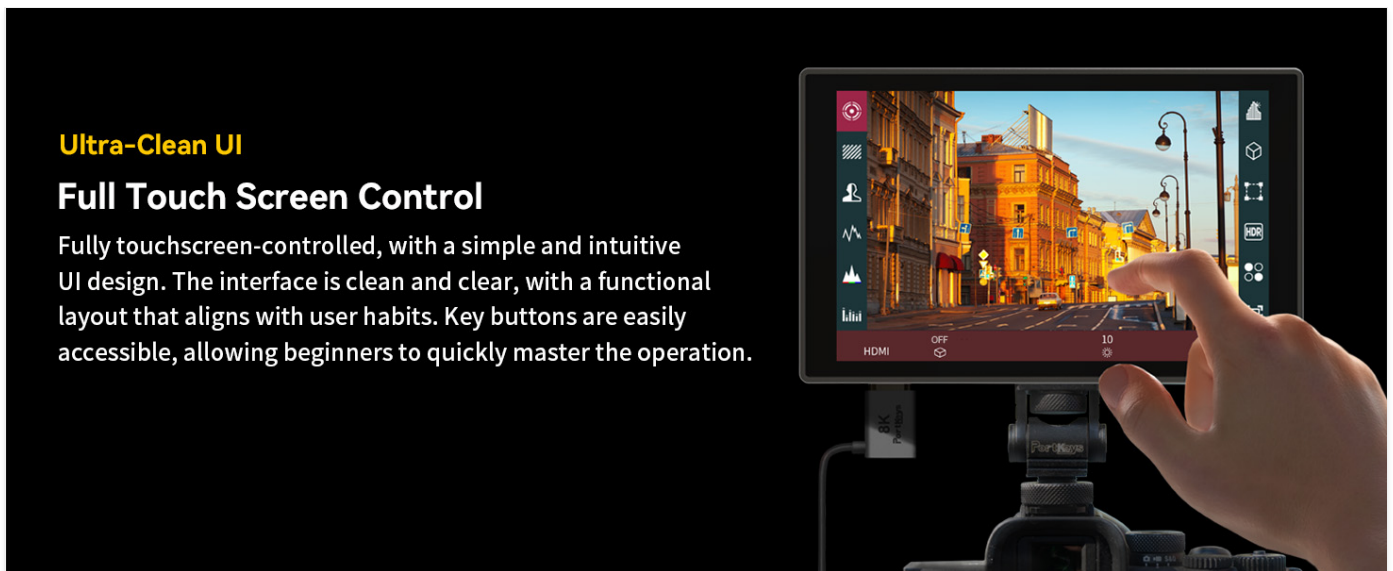


Figure 5.1: Ultra-Clean UI and full touchscreen control.

5.2 Using Monitoring Tools

Access various monitoring tools from the side menu on the touchscreen. Tap on an icon to activate or deactivate a tool. Common tools include:

- **Peaking:** Highlights in-focus areas.
- **False Color:** Displays exposure levels using a color overlay.
- **Zebra:** Indicates overexposed areas with stripe patterns.
- **RGB Waveform / Luma Waveform:** Visualizes video signal levels.
- **Luma Histogram:** Shows the distribution of brightness levels.
- **Zoom:** Magnifies a portion of the image for critical focus.
- **Anamorphic De-squeeze:** Corrects the aspect ratio for anamorphic lenses.

5.3 Importing and Using 3D LUTs

The HD7T supports user-imported 3D LUTs for real-time color grading preview. You can import up to 20 replaceable 3D LUT files via the USB-A interface.

1. Save your 3D LUT files (e.g., .cube format) to a USB drive.
2. Connect the USB drive to the USB-A port on the monitor.
3. Navigate to the LUT management section in the monitor's menu to import and select your desired LUTs.

Supports up to 20 replaceable 3D LUT files

Cinematic-Grade Color Grading



Figure 5.2: Cinematic-grade color grading with 3D LUTs.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Portkeys HD7T monitor.

- **Cleaning:** Use a soft, lint-free cloth to clean the screen and body. For stubborn smudges on the screen, use a specialized screen cleaning solution. Avoid abrasive materials or harsh chemicals.
- **Storage:** When not in use, store the monitor in a dry, dust-free environment, preferably in its original packaging or a protective case.
- **Battery Care:** If using NP-F batteries, ensure they are charged regularly and stored in a cool, dry place. Remove batteries if the monitor will not be used for an extended period.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Monitor does not power on	Low or depleted battery; incorrect DC power connection; battery not properly seated.	Charge or replace battery; ensure DC adapter is correctly connected and providing sufficient power; re-seat battery firmly.
No video signal displayed	Incorrect HDMI/AV cable connection; camera output settings incorrect; incompatible signal format; camera timeout setting.	Verify cable connections; check camera's video output settings (resolution, frame rate); ensure monitor input matches camera output; disable camera's auto-off or monitor timeout settings.
Touchscreen unresponsive	Temporary software glitch; screen protector interference.	Restart the monitor; ensure screen protector is correctly applied or remove it for testing.
Image appears distorted (anamorphic)	Anamorphic de-squeeze setting is incorrect or off.	Adjust the anamorphic de-squeeze ratio in the monitor settings to match your lens.

8. SPECIFICATIONS

Specification	Detail
Model Number	HD7T
Screen Size	7 Inches
Resolution	1280 x 800 Pixels (HD)
Aspect Ratio	16:9
Brightness	1000 Nits
Contrast Ratio	1000:1
Color Depth	8-bit
Input	4K HDMI (up to 4K@30p), AV IN
Output	3.5mm Headphone Jack
Power Input	NP-F Battery, 7.4~24V DC
Item Weight	1.34 pounds (approx. 245g for monitor only)
Package Dimensions	8.23 x 8.11 x 1.93 inches
Manufacturer	Portkeys

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Portkeys directly through their official channels. Details can typically be found on the manufacturer's website or the product packaging.

You can also visit the [Portkeys Official Store on Amazon](#) for additional product information and support resources.

