Portkeys PT6

Portkeys PT6 5.2 inch DSLR Camera Monitor Instruction Manual

Model: PT6 (EA-US-PK00010)

Introduction

The Portkeys PT6 is a 5.2-inch DSLR camera monitor designed for professional videography and live streaming. It features a 10-bit 1920x1080 touch screen display with 600 nits brightness and a 1000:1 contrast ratio, offering clear and accurate visual monitoring. This manual provides detailed instructions for setting up, operating, and maintaining your PT6 monitor to ensure optimal performance.

Safety Information

- Do not expose the monitor to water or excessive humidity.
- Avoid dropping or subjecting the monitor to strong impacts.
- Use only approved power sources and batteries.
- Keep the monitor away from direct sunlight and heat sources.
- Clean the screen with a soft, dry cloth. Do not use liquid cleaners.

Product Overview

The Portkeys PT6 monitor is equipped with various ports and controls for versatile use. Familiarize yourself with the layout before operation.



Figure 1: Portkeys PT6 Monitor Ports and Controls Diagram. This diagram illustrates the location of the HDMI input, audio headphone output, USB-A port, touch screen lock, battery lock, HDMI output, power switch, DC 7-24V power input, and cooling holes on the monitor.

Key Features:

- **Touch Screen:** 10-bit 5.2-inch 1920 x 1080 display with 600nit brightness and 1000:1 contrast ratio. Features full-screen touch control and a new UI menu for quick access.
- **3D LUT Output:** Supports 3D LUT monitoring and 3D LUT HDMI output capabilities. Includes 1 x 4K HDMI input and 1 x HDMI output.
- **Professional Monitoring Tools:** Integrated Waveform, Peaking, and ARRI False Color functions.
- **Various Power Supply:** Compatible with Sony NP-F970 / F960 / F750 / F550 and Canon E6 batteries. Supports 5V Type-C input, allowing power from a mobile phone charger or power bank (minimum 5V / 2A).
- **Display Adjustments:** Offers Anamorphic, Color Temperature, Contrast, Sharpness, Brightness, Tint, Backlight, and Display Flip adjustments.

Setup

1. Powering the Monitor

The PT6 monitor can be powered using compatible batteries or a 5V Type-C power source.

1. **Battery Installation:** Insert a compatible Sony NP-F series (NP-F970 / F960 / F750 / F550) or Canon E6 battery into the battery slot on the rear of the monitor. Ensure it clicks securely into place.
2. **Type-C Power:** Alternatively, connect a 5V/2A (minimum) Type-C power adapter or power bank to the Type-C port for continuous power.
3. **Power On:** Locate the power switch on the side of the monitor. Slide it to the 'ON' position. The screen will light up after a few seconds.

Your browser does not support the video tag.

Video 1: Portkeys PT6 Operation Logic. This video demonstrates the process of installing a battery, powering on the monitor, and navigating the touch screen interface.

2. Connecting to a Camera

Connect your camera to the PT6 monitor using an HDMI cable.

1. Ensure both the camera and monitor are powered off.
2. Connect one end of an HDMI cable to the HDMI output port on your camera.

3. Connect the other end of the HDMI cable to the HDMI input port on the Portkeys PT6 monitor.
4. Power on the camera, then power on the monitor. The camera's video feed should appear on the monitor screen.



Figure 2: Portkeys PT6 monitor connected to a DSLR camera. This image shows the monitor attached to a camera, ready for use.

Operating Instructions

1. Touch Screen Navigation

The PT6 features a full-screen touch interface for intuitive control.

- **Accessing Menu:** Tap the screen once to bring up the main menu interface.
- **Cycling Interfaces:** Swipe left or right on the screen to cycle between the shortcut function interface and the image setting interface.
- **Activating Functions:** Click an icon in the menu to turn on or off a specific function. The setting interface for that

function will appear at the bottom of the UI.

- **Custom Function Interface:** Swipe down from the left or right navigation bar to enter the custom function interface. Here you can add or remove functions by clicking the '+' icon.
- **Returning to Shortcut Interface:** Swipe up from the bottom of the screen to return to the shortcut function interface.

2. Monitoring Tools and Features

The PT6 offers a range of professional monitoring tools to assist with accurate image capture.

2.1. 3D LUT Output

Apply 3D LUTs for accurate color representation during monitoring and output via HDMI.



Figure 3: 3D LUT Output demonstration. This image illustrates the visual difference when a 3D LUT is applied, enhancing color accuracy and monitoring.

2.2. Peaking

Use the Peaking function to assist with focus accuracy. The PT6 allows for customized peaking ranges.

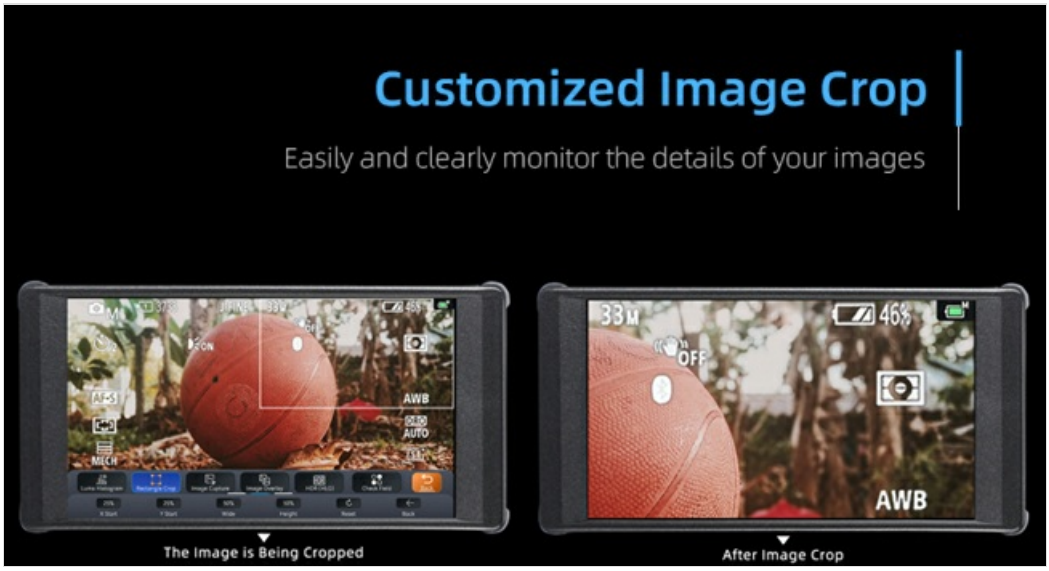


Figure 4: Customized Peaking Range. This image shows how to set peaking parameters and an example of regional peaking highlighting in-focus areas.

2.3. ARRI False Color

The ARRI False Color tool helps in evaluating exposure levels by displaying different exposure values as distinct colors.

2.4. Image Crop Function

Crop your image directly on the monitor to focus on specific details or adjust framing.

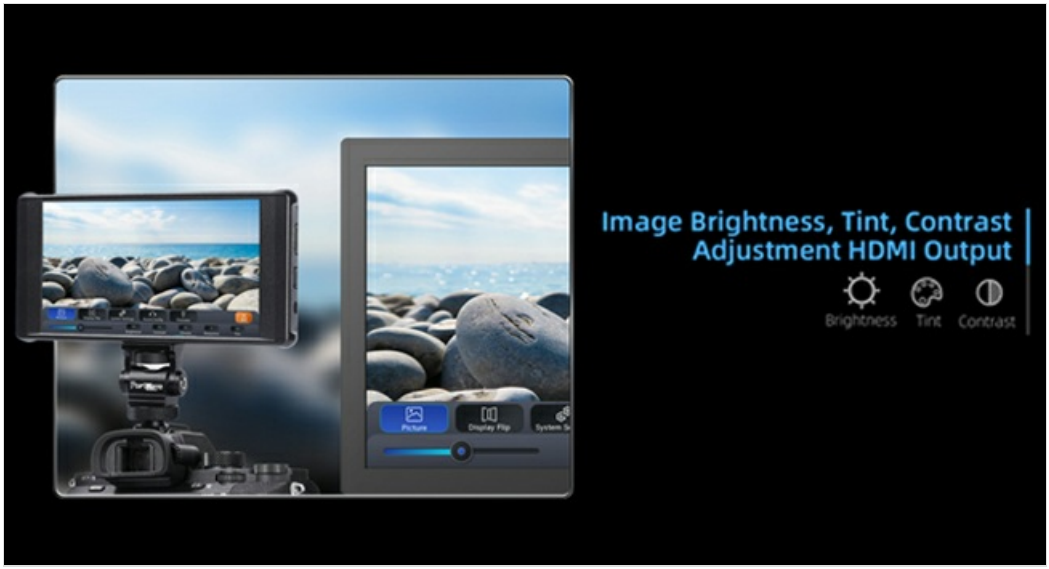


Figure 5: Customized Image Crop. This image shows an original frame and the same frame after applying the image crop function.

2.5. Anamorphic De-squeeze

Supports various anamorphic de-squeeze ratios for monitoring footage shot with anamorphic lenses.



Figure 6: Anamorphic Lens Calibration. This image displays a stretched image before calibration and the correctly de-squeezed image after calibration.

2.6. Other Display Adjustments

Adjust various display parameters to suit your viewing preferences and shooting environment.

- Color Temperature
- Contrast
- Sharpness
- Brightness
- Tint
- Backlight
- Display Flip

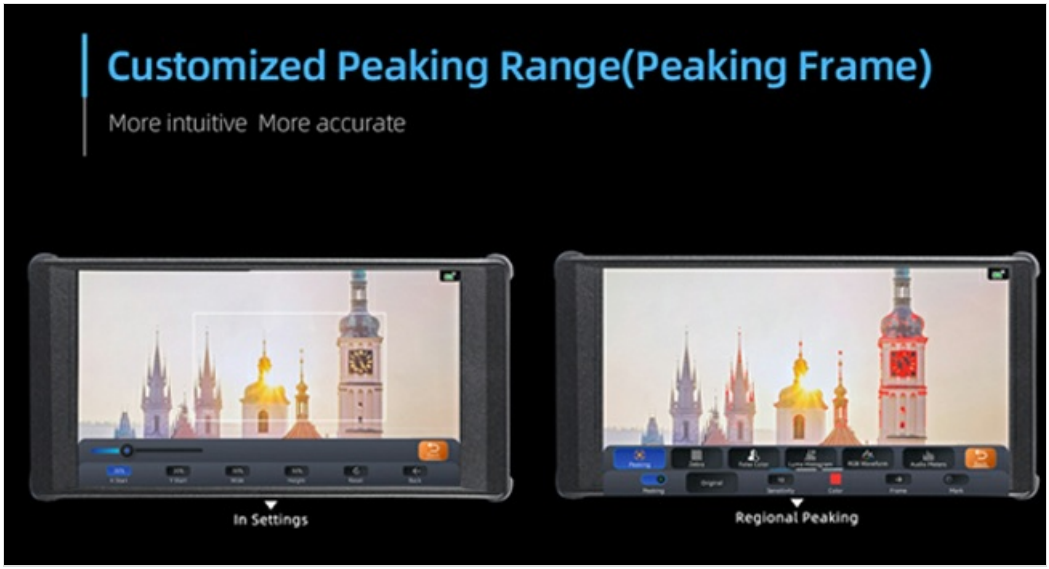


Figure 7: Image Brightness, Tint, and Contrast Adjustment. This image shows the monitor interface for adjusting these display parameters.

Maintenance

Firmware Updates

To ensure your Portkeys PT6 monitor operates with the latest features and improvements, regularly check for and apply firmware updates.

1. Download the latest firmware file from the official Portkeys website.
2. Unzip the downloaded file directly onto the main directory of a USB disk.
3. Connect the USB disk to the USB-A port on the monitor.
4. Follow the on-screen prompts to initiate and complete the firmware update process. Do not power off the monitor during the update.

Troubleshooting

Problem	Possible Cause	Solution
Monitor does not power on.	Battery is dead or incorrectly installed; power cable is loose or faulty.	Charge or replace the battery; ensure battery is correctly installed; check power cable connection; try Type-C power.
No image displayed from camera.	HDMI cable is loose or faulty; camera HDMI output is not active; incorrect input selected on monitor.	Check HDMI cable connections; ensure camera HDMI output is enabled; verify correct input source on monitor.
Touch screen unresponsive.	Touch screen lock is active; temporary software glitch.	Check if the touch screen lock is engaged (refer to Product Overview diagram); restart the monitor.
Image appears stretched or distorted.	Incorrect anamorphic de-squeeze setting.	Adjust the anamorphic de-squeeze ratio in the display settings to match your lens.

Specifications

Feature	Detail
Product Dimensions	7.48 x 4.72 x 1.97 inches
Item Weight	15.8 ounces
ASIN	B0CBV8YD9R
Item Model Number	EA-US-PK00010
Display Size	5.2 inches
Resolution	1920 x 1080
Brightness	600 nits
Contrast Ratio	1000:1
Color Depth	10 bit
HDMI Input	1 x 4K HDMI input
HDMI Output	1 x HDMI output (with 3D LUT support)
Power Input	DC 7-24V, 5V Type-C (min 2A)
Battery Compatibility	Sony NP-F series (NP-F970/F960/F750/F550), Canon E6
Monitoring Tools	Waveform, Peaking, ARRI False Color, 3D LUT, Image Crop, Anamorphic, etc.

Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the official Portkeys website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.
Official Website: www.portkeys.com

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