Portkeys PT5II

Portkeys PT5 II Touchscreen Camera Field Monitor User Manual

Model: PT5II

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Portkeys PT5 II Touchscreen Camera Field Monitor. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize its performance.

Image: The Portkeys PT5 II monitor shown with its various accessories, including cables and mounting hardware.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Portkeys PT5 II Camera Monitor
- HDMI Cable
- Mounting Bracket
- Sunshade
- User Manual (this document)

SETUP

1. Powering the Monitor

The PT5 II offers flexible power options:

- **Battery Power:** Compatible with Sony NP-F series batteries (e.g., NP-F970/F960/F750/F550) or Canon LP-E6 batteries. Insert the battery into the designated slot on the rear of the monitor.
- **DC Input:** Connect a compatible DC power adapter (7-24V) to the DC IN port.
- **USB Power:** The monitor supports 5V USB input (at least 5V/2A) via the USB-A port. This can be used with a mobile phone charger or power bank.

Flexible Power Options for All Setups

Compatible with Sony NP-F and Canon LP-E6 Batteries

Image: The back of the Portkeys PT5 II monitor, highlighting the battery compartment, DC 7-24V input, and USB-A port for power and LUT loading.
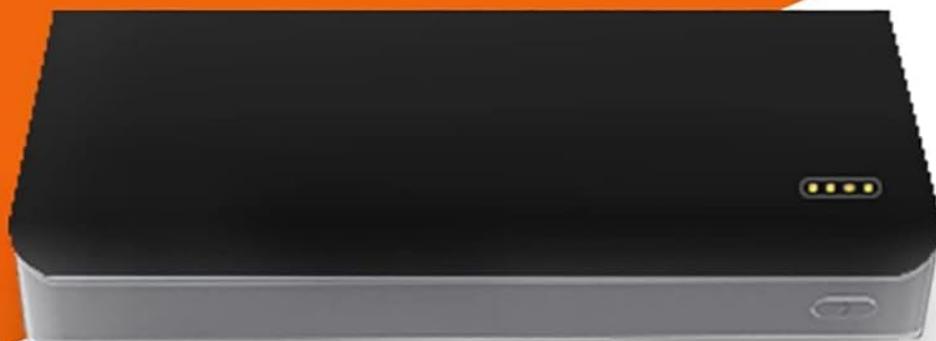
Compatible with Sony NP-F and Canon E6 batteries

CanonE6

Snoy NP-F

Supports 5V USB Input

which can be powered by mobile phone charger or power bank.
(At least 5V/2A)

Cooling system layout

USB port 5V1A
output power supply

Image: An illustration demonstrating compatibility with Sony NP-F and Canon LP-E6 batteries, along with the 5V USB input option.

2. Connecting to a Camera

Connect your camera's HDMI output to the monitor's HDMI Input port using a compatible HDMI cable. The monitor

also features an HDMI Output for looping through the signal to another device.

Image: The Portkeys PT5 II monitor mounted on a camera, illustrating the 4K HDMI input/output connection.

Image: A detailed side view of the monitor, indicating the HDMI Input, Audio Headphone Output, and HDMI Output ports, along with a 1/4" threaded insert for mounting.

OPERATING INSTRUCTIONS

The Portkeys PT5 II features a touchscreen interface for intuitive control. Swipe gestures and taps are used to navigate menus and activate functions.

Key Features and Functions:

- **Luma and RGB Waveform:** Access high-precision oscilloscope functions including Luma Waveform, RGB Waveform, and Luma Histogram. These tools assist in checking image exposure and color balance before and after applying 3D LUTs. The position and transparency of the scope can be adjusted.
- **3D LUT:** Load custom 3D Look-Up Tables to preview different color grades in real-time.
- **Anamorphic:** Supports various anamorphic de-squeeze ratios (1.00X, 1.33X, 1.42X, 1.50X, 1.60X, 1.66X, 1.85X, 2.00X, 2.35X) and user-defined ratios.
- **New Peaking:** Enhanced focus peaking for precise focus assistance.
- **Zebra:** Highlights overexposed areas to prevent clipping.
- **False Color:** Displays exposure levels using a spectrum of colors.

- **Grids & Guides:** Customizable framing guides and crosshairs.

- **Audio Meters:** Visual representation of audio input levels.

- **Image Flip:** Flips the image horizontally or vertically for various mounting orientations.

- **Menu Transparency Adjustment:** Adjust the transparency of the on-screen display (OSD) menu.

- **Color Temperature:** Adjust the white balance of the display.

- **Contrast, Brightness, Chroma, Sharpness, Tint:** Standard image adjustment controls.

- **Zooming:** Magnify parts of the image for critical focus.

- **Backlight:** Adjust the screen's backlight intensity.

- **Battery Voltage Checking:** Monitor the current battery voltage.

Wide Color Gamut

Color gamut range NTSC 95%
Better color expression,
More realistic and natural image

Wide color gamut   ◀▶   Normal color gamut
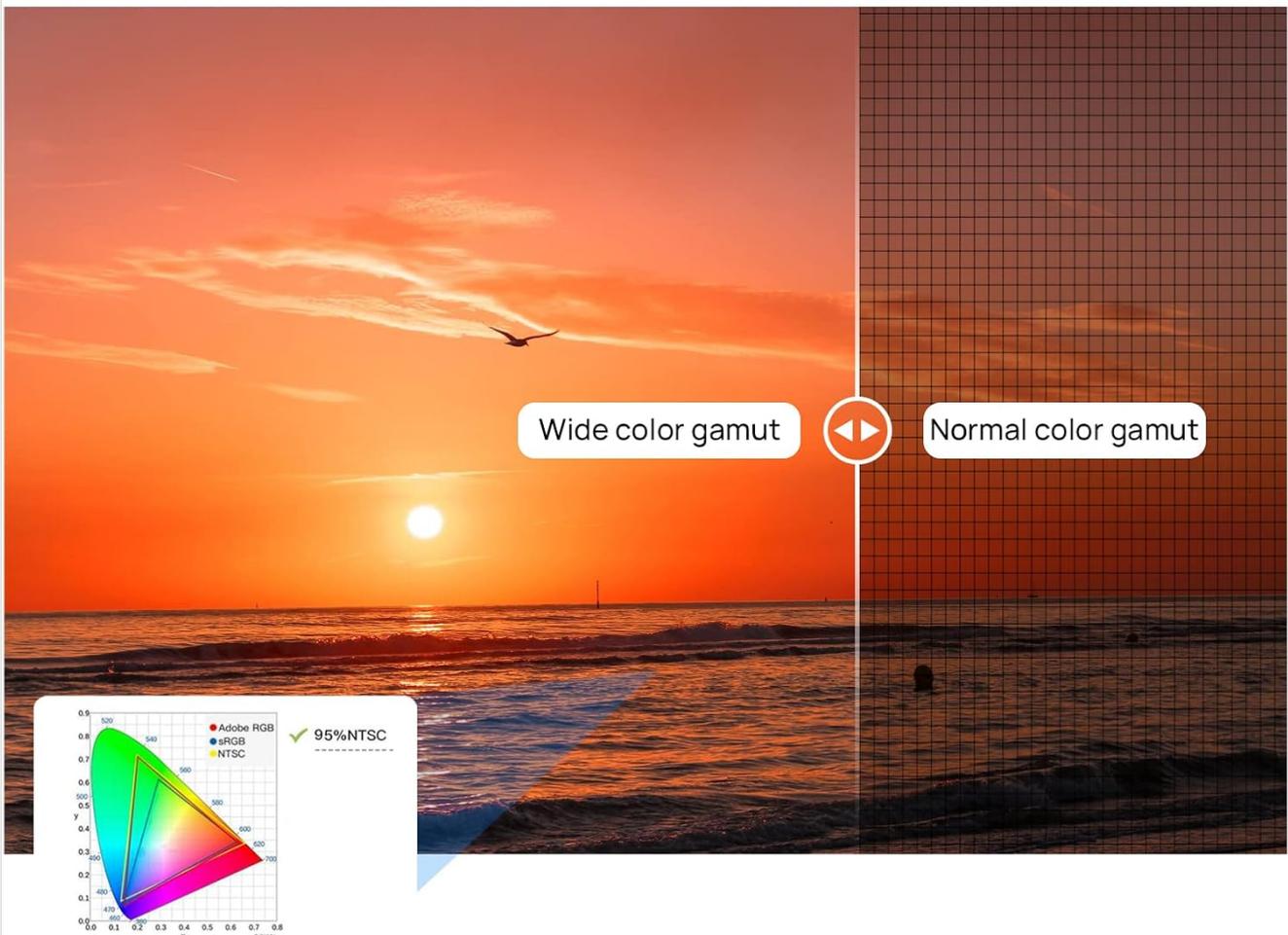
- Adobe RGB
- sRGB
- NTSC

✔ 95%NTSC

Image: A user interacting with the touchscreen interface of the Portkeys PT5 II, showing the Luma and RGB Waveform display.

Professional Software Features

3D LUT / New Peaking / RGB Waveform / Luma Waveform / Luma Histogram / Anamorphic
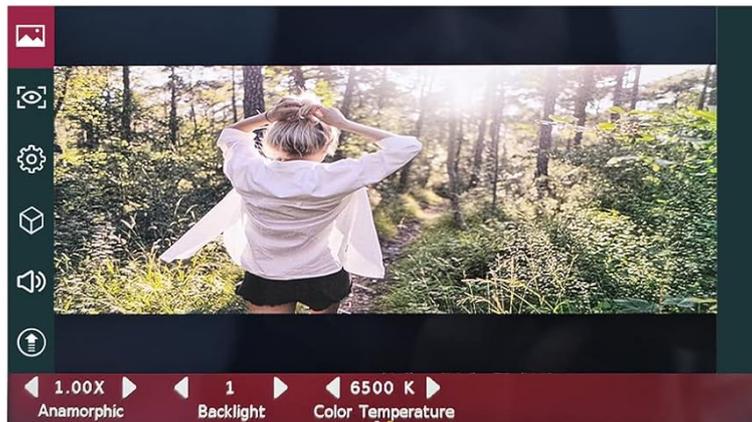
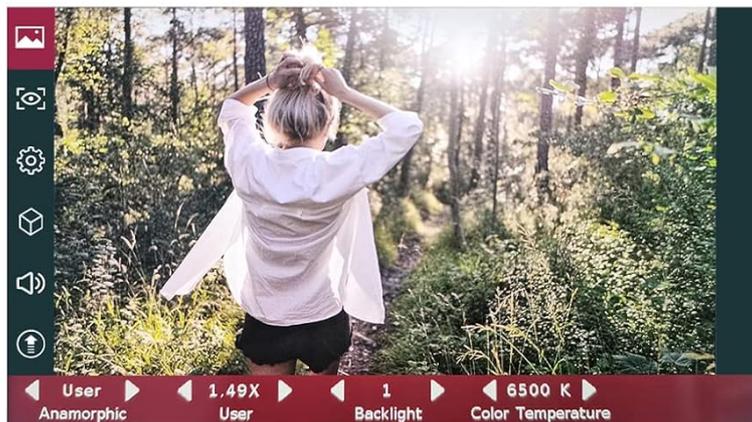Professional software features that make shooting easier

Image: Multiple screen views of the Portkeys PT5 II, illustrating the professional software features such as Luma Waveform, RGB Waveform, Anamorphic de-squeeze, and Peaking.

Anamorphic Lens Ratio

Support 1.00X; 1.33X; 1.42X; 1.50X; 1.60X; 1.66X; 1.85X; 2.00X; 2.35X ratio adjustment and user-defined

Before Adjustment

After Adjustment

Image: A comparison on the Portkeys PT5 II screen showing an image before and after anamorphic de-squeeze adjustment, demonstrating the Anamorphic Lens Ratio feature.

Professional Monitor Functions

Image: A screen capture from the Portkeys PT5 II monitor showing a grid of icons representing various professional monitoring functions like Peaking, Zebra, False Color, Waveforms, and 3D LUT.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the monitor screen and body. For stubborn smudges, a slightly damp microfiber cloth can be used. Avoid abrasive cleaners or solvents.
- **Storage:** When not in use, store the monitor in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided protective case if available.
- **Battery Care:** If using rechargeable batteries, follow the manufacturer's guidelines for charging and storage to prolong battery life. Remove batteries if the monitor will not be used for an extended period.
- **Firmware Updates:** Periodically check the Portkeys official website for any available firmware updates to ensure optimal performance and access to new features.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on screen	- Monitor not powered on. - HDMI cable loose or faulty. - Incorrect input selected. - Camera not outputting signal.	- Ensure monitor is powered on and battery/power source is sufficient. - Check HDMI cable connections; try a different cable. - Verify the correct HDMI input is selected in the monitor's menu. - Check camera settings for HDMI output.
Screen flickering or distorted image	- HDMI cable issue. - Signal incompatibility.	- Replace HDMI cable. - Ensure camera output resolution/frame rate is supported by the monitor (up to 4K30P).
Touchscreen unresponsive	- Temporary software glitch. - Screen protector interference.	- Restart the monitor. - Ensure the screen is clean and free of debris. - If a screen protector is installed, ensure it is properly applied and not causing issues.
Monitor gets hot during use	- Normal operation. - Poor ventilation.	- Some heat generation is normal. - Ensure the monitor's vents are not obstructed. Avoid direct sunlight.

SPECIFICATIONS

Feature	Detail
Model Number	PT5II
Screen Size	5 inches
Resolution	Full HD 1920x1080
Pixel Density (PPI)	400 PPI

Feature	Detail
Viewing Angle	178°
Brightness	500 nit
Contrast Ratio	1000:1
Input/Output	4K30P HDMI Input/Output
Power Options	Sony NP-F series, Canon LP-E6, DC 7-24V, USB 5V/2A
Product Dimensions	0.72 x 5.35 x 2.83 inches
Item Weight	5.3 ounces (approx. 150g)
Manufacturer	Portkeys
Date First Available	August 11, 2022

Image: The Portkeys PT5 II monitor on a digital scale, indicating its ultra-light design with a weight of approximately 130g (0.28lb).

Image: The Portkeys PT5 II screen demonstrating wide color gamut capabilities, alongside key display specifications: 5-inch size, 500nit brightness, 1920x1080 resolution, and 1000:1 contrast ratio.

WARRANTY AND SUPPORT

The Portkeys PT5 II Touchscreen Camera Field Monitor comes with a **ONE YEAR WARRANTY** from the date of purchase.

For any after-sales questions, technical support, or warranty claims, please contact Portkeys customer service. You can find contact information on the official Portkeys website or through your retailer.

Manufacturer: Portkeys

For more information, visit the official Portkeys Store on Amazon.