

[Manuals.plus](#) /

› [VILTROX](#) /

› VILTROX DC-550 5.5-inch Touch Screen DSLR Camera Field Monitor User Manual

VILTROX DC-550

VILTROX DC-550 5.5-inch Touch Screen DSLR Camera Field Monitor User Manual

Model: DC-550

1. INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your VILTROX DC-550 5.5-inch Touch Screen DSLR Camera Field Monitor. Please read this manual thoroughly before operating the device to ensure optimal performance and longevity.



Figure 1.1: VILTROX DC-550 Field Monitor with sunshade attached.

2. PRODUCT OVERVIEW

2.1 Key Features

- **High Brightness Display:** 1200 Nits for daylight viewability.
- **Resolution:** 4K Full HD 1920 x 1080 at 30Hz, supporting 3840x2160p and 4096x2160p (30/25/24Hz) HDMI signals.
- **Panel:** 5.5-inch IPS panel with 160° viewing angles.
- **Color Accuracy:** 1200:1 contrast ratio, REC-709 color calibration.
- **Professional Monitoring Functions:** Parade waveform, vector graph, brightness histogram, auxiliary focus, audio column, image flip, false color, zoom, safe area, mark ratio, gridlines, color temperature, pixel to pixel.
- **Custom 3D LUT:** Importable via SD card for various creative effects and camera Log mode monitoring.

- **Connectivity:** HDMI input and output, 3.5mm stereo headphone jack.
- **Power Supply:** Supports Sony NP-F series battery, DC IN 12-18V, and Type-C 5V 3A power bank.
- **Control:** Convenient touch screen and physical button controls.
- **Accessories:** Includes a quick-release collapsible sunshade hood.

2.2 Package Contents

The VILTROX DC-550 package includes the following items:

- 1x DC-550 Camera Video Monitor
- 1x Sunshade Hood
- 1x VILTROX NP-F550 Battery
- 1x VL-550 Cold Shoe Adapter
- 1x Type-C Cable
- 1x Standard HDMI Cable
- 1x Mini HDMI Cable
- 1x Carry Case
- 1x User Manual
- 1x Packing Box

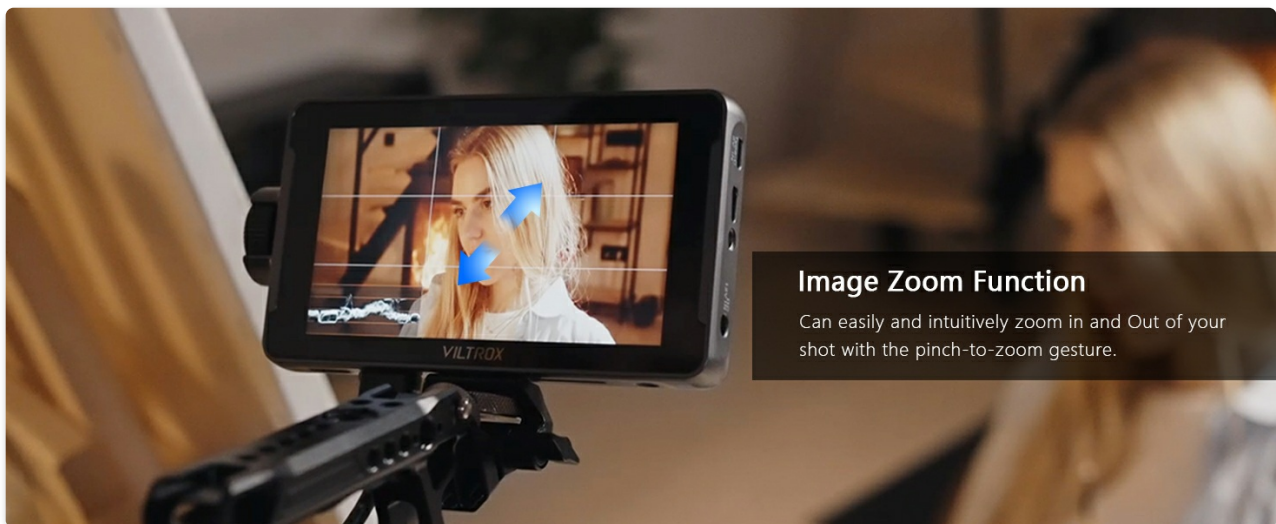


Figure 2.1: Contents of the VILTROX DC-550 package.

2.3 Monitor Components

Familiarize yourself with the various ports and controls on your DC-550 monitor:



SD Card

Machine can be upgraded with firmware via SD card

Customize 3D-LUT

Importing custom 3D LUTs via SD card makes it easy for customers to use any camera in Log mode for monitoring, and for achieving a variety of creative effects in post-production.



Figure 2.2: Top view of the monitor with SD card slot and function buttons.



Figure 2.3: Side view of the monitor with HDMI ports and control knob.



Figure 2.4: Bottom view of the monitor with power input ports.

3. SETUP

3.1 Attaching the Monitor

1. Attach the VL-550 Cold Shoe Adapter to your camera's hot shoe or a compatible rig.
2. Mount the DC-550 monitor onto the cold shoe adapter. Ensure it is securely fastened.



Figure 3.1: Monitor mounted on a camera.

3.2 Powering the Monitor

The DC-550 offers multiple power options:

- **NP-F Series Battery:** Insert a charged Sony NP-F series battery (e.g., NP-F550) into the battery slot on the back of the monitor.
- **DC IN 12-18V:** Connect an external DC power adapter (not included) to the DC 12V IN port.
- **Type-C 5V 3A:** Connect a compatible Type-C power bank to the 5V IN port for portable power.



Figure 3.2: Triple power supply options.

3.3 Connecting to a Camera

Use the provided HDMI cables to connect your camera to the monitor:

1. Connect one end of the HDMI cable to your camera's HDMI output port.
2. Connect the other end to the **HDMI IN** port on the DC-550 monitor.
3. If you need to loop out the signal to another monitor, use a second HDMI cable from the **HDMI OUT** port.



Figure 3.3: HDMI input and output connections.

3.4 Initial Power-On and Language Setting

1. Ensure the monitor is powered on using one of the methods described above.
2. If the language is not English, follow these steps:

Instruction for the Language Setting of DC-550S Monitor



1. Double tap to wake up menu;



2. Click on the top right corner to access the system setting;



3. Then click “英文” to change to English language;

Figure 3.4: Steps to change the monitor language to English.

For a visual guide on setting the language, refer to the video below:

Your browser does not support the video tag.

Video 3.1: Quick guide on how to set the language to English on the VILTROX DC-550 monitor.

4. OPERATING INSTRUCTIONS

4.1 Control Methods

The DC-550 offers flexible control options:

- **Full Touch Screen Mode:** Use double-finger gestures to drag the screen and view details.
- **Button Mode:** Press or rotate the wheel button for quick selection and function settings.



Figure 4.1: Convenient touch screen control.



Figure 4.2: Support for button control.

4.2 Professional Monitoring Functions

The DC-550 includes a suite of professional tools to assist with accurate monitoring:

- **Parade Waveform:** Displays the luminance and chrominance levels of your video signal.
- **Vector Graph:** Visualizes the color saturation and hue.
- **Brightness Histogram:** Shows the distribution of brightness levels in your image.
- **Auxiliary Focus (Focus Peaking):** Highlights in-focus areas for precise focusing.
- **Audio Column:** Displays audio levels for monitoring sound input.
- **Image Flip:** Flips the image horizontally or vertically.
- **False Color:** Helps evaluate exposure by displaying different exposure levels as distinct colors.
- **Zoom Function:** Allows for easy and intuitive zooming in and out of your shot with pinch-to-zoom gestures.
- **Safe Area & Mark Ratio:** Guides for framing and aspect ratios.
- **Gridlines:** Assists with composition.
- **Color Temperature:** Adjusts the color balance.
- **Pixel to Pixel:** Displays the image at its native resolution without scaling.



Figure 4.3: All-round video monitoring tools.

4.3 Custom 3D LUT Import

The DC-550 supports importing custom 3D LUTs (Look-Up Tables) via an SD card. This allows you to apply specific color grades or camera Log conversions directly on the monitor for accurate preview during shooting.

1. Save your 3D LUT files (.cube format) to an SD card.
2. Insert the SD card into the monitor's SD card slot.
3. Navigate to the 3D LUT menu in the monitor settings to import and apply your desired LUTs.

Figure 4.4: Importing custom 3D LUTs via SD card.

4.4 Sunshade Hood

The quick-release collapsible sunshade hood helps to reduce glare and improve screen visibility in bright outdoor conditions.

Quick-release Collapsible Hood

Allows the photographer to focus more on the video and avoid the interference of strong light, providing a better visual experience.



Figure 4.5: Monitor with quick-release collapsible hood.

For a general overview of the monitor's features and setup, watch the video below:

Your browser does not support the video tag.

5. MAINTENANCE

To ensure the longevity and optimal performance of your VILTROX DC-550 monitor, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the monitor's body. For the screen, use a microfiber cloth specifically designed for electronics and a gentle screen cleaning solution if necessary. Avoid harsh chemicals or abrasive materials.
- **Battery Care:** When not in use for extended periods, remove the NP-F series battery. Store batteries in a cool, dry place. Avoid fully discharging or overcharging batteries.
- **Storage:** Store the monitor in its provided carry case to protect it from dust, moisture, and physical damage. Avoid exposing the monitor to extreme temperatures or direct sunlight.
- **Ventilation:** Ensure the cooling air inlet and fan outlet are not obstructed during operation to prevent overheating.



Figure 5.1: Cooling air inlet for heat dissipation.

6. TROUBLESHOOTING

If you encounter issues with your VILTROX DC-550 monitor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Monitor does not power on	Battery is low or not inserted correctly; DC power not connected or faulty; Power button not pressed.	Ensure battery is charged and correctly inserted. Check DC power connection. Press and hold the power button.

Problem	Possible Cause	Solution
No video signal on screen	HDMI cable is loose or faulty; Camera HDMI output is off or incorrect format; Monitor input source not selected.	Check HDMI cable connections. Verify camera HDMI output settings. Select the correct HDMI input on the monitor.
Display is dim or colors are off	Brightness/contrast settings are incorrect; Color calibration issue.	Adjust brightness and contrast settings in the monitor menu. Ensure REC-709 color calibration is active or load appropriate 3D LUT.
Touch screen unresponsive	Screen is dirty; Software glitch; Touch function disabled.	Clean the screen. Restart the monitor. Check monitor settings to ensure touch function is enabled.
Audio issues (no sound from headphone jack)	Headphones not fully plugged in; Audio levels too low; Camera not sending audio via HDMI.	Ensure headphones are fully inserted. Adjust audio levels on the monitor. Check camera's audio output settings.

7. SPECIFICATIONS

Feature	Specification
Brand	VILTROX
Model Number	DC-550
Screen Size	5.5 Inches
Resolution	4K UHD 2160p (Native 3840x2160 pixels)
Aspect Ratio	16:9
Screen Finish	Glossy
Contrast Ratio	1200:1
Display Type	LCD
Viewing Angle	160 Degrees
Brightness	1200 candela_per_square_meter (Nits)
Connectivity Technology	HDMI, 3.5mm audio jack
Total Number of HDMI Ports	2 (1x HDMI In, 1x HDMI Out)
Additional Features	Portable, Touchscreen
Item Dimensions (D x W x H)	1.12"D x 6.49"W x 3.58"H
Item Weight	0.92 Kilograms

8. WARRANTY AND SUPPORT

The VILTROX DC-550 Camera Field Monitor comes with a **1-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any inquiries regarding your product, please contact VILTROX customer service through their official channels or the retailer where you purchased the product.

Please retain your proof of purchase for warranty validation.