

## VILTROX DC-550

# VILTROX 5.5-inch 1200nits Camera Field Monitor DC-550 User Manual

Model: DC-550

## INTRODUCTION

The VILTROX DC-550 is a 5.5-inch camera field monitor designed to provide clear and accurate video monitoring. It features a 1920x1080 resolution display with 1200nits brightness, ensuring visibility even in bright daylight. The monitor supports 4K HDMI input and loop output, and includes a suite of professional monitoring tools such as waveform, vectorscope, histogram, focus peaking, and false color. Custom 3D LUTs can be loaded via an SD card to achieve specific film looks. The compact and lightweight design, combined with intuitive touchscreen and wheel button controls, makes it suitable for various video production environments.

## SETUP

### 1. Unboxing and Package Contents

Carefully unpack all items from the box. Verify that the following components are included:

- VILTROX DC-550 Camera Video Monitor x1
- NP-F550 2200mAh Battery x1
- Sunshade Hood x1
- VL-550 Cold Shoe Adapter x1
- HDMI-HDMI Cable x1
- Mini-HDMI Cable x1
- Type-C Cable x1
- Storage Box x1



Image: Included accessories for the VILTROX DC-550 monitor, showing cables, battery, sunshade, and cold shoe adapter.

## 2. Battery Installation

Insert the provided NP-F550 battery into the battery slot on the rear of the monitor. Ensure it clicks securely into place. The monitor can also be powered via a Type-C cable (5V/3A) or a DC 12V adapter (12-18V).



Image: Rear view of the VILTROX DC-550 monitor, showing the battery slot and various ports.

## 3. Mounting the Monitor

Attach the VL-550 cold shoe adapter to the 1/4-inch mounting point located on the bottom or right side of the monitor. Secure the monitor to your camera's hot shoe or a rig using the cold shoe adapter.

## クイックリリース サンシェードフード



Image: The VILTROX DC-550 monitor mounted on a camera rig, demonstrating its compact setup.

### 4. Connecting to a Camera

Use the provided HDMI-HDMI or Mini-HDMI cable to connect your camera's HDMI output to the monitor's HDMI input port. The monitor supports 4K HDMI input and loop output.

# 複数の電源供給に対応

バッテリー、USB-C、DC 12Vアダプター電源に対応

## バッテリー電源

NP-F550/NP-F750/NP-F970シリーズバッテリー対応



2200mAh  
大容量バッテリー



5V/3A

Type-Cパワーバンク電源



12~18V

DCアダプター電源

Image: The VILTROX DC-550 monitor connected to a camera via HDMI, showing the input and output ports.

## OPERATING INSTRUCTIONS

### 1. Power On/Off

Press and hold the power button (usually located on the top or side) for a few seconds to turn the monitor on or off.

### 2. Touchscreen Operation

The DC-550 features a full touchscreen for intuitive control. Tap the screen to access menus and settings. Swipe gestures can be used for quick adjustments:

- **Tap:** Access menus or confirm selections.
- **Swipe Up/Down:** Adjust brightness.
- **Swipe Left/Right:** Adjust volume.
- **Pinch In/Out:** Zoom in/out on the image.



## タッチ操作&ボタン操作

フルタッチスクリーンで、タップするだけでメニューや設定を簡単に操作できます。



Image: A hand interacting with the VILTROX DC-550 monitor's touchscreen, demonstrating menu access and adjustments.

### 3. Wheel Button Control

The control dial (wheel button) on the left side of the monitor provides an alternative method for navigation and settings adjustment. Tap the wheel button to enter a menu, then rotate it to scroll through options. Press the button again to confirm your selection.



## 大きなノブデザイン で操作が簡単

ホイールボタンを押したり回したりするだけで、素早く選択や機能設定ができます。

Image: A user operating the VILTROX DC-550 monitor using the large control knob for quick selections.

#### 4. Loading Custom 3D LUTs

The monitor supports loading custom 3D LUT (.cube) files. Save your desired LUT files to an SD card. Insert the SD card into the monitor's SD card slot. Navigate to the LUT menu option and select your desired LUT file to apply it to the display.



Image: A user inserting an SD card into the VILTROX DC-550 monitor, demonstrating the process for loading custom 3D LUTs.

#### 5. Monitoring Tools

The DC-550 includes a comprehensive set of monitoring tools to assist with focus, framing, and exposure:

- **Waveform:** Visualizes the luminance and chrominance levels of your video signal.
- **Vectorscope:** Displays the color information of your video signal.
- **Histogram:** Shows the distribution of tones in your image.
- **Focus Peaking:** Highlights in-focus areas with a selectable color.
- **Zebra:** Indicates overexposed areas.
- **False Color:** Uses a spectrum of colors to represent different exposure levels.
- **Frame Guide/Safe Area:** Helps with framing and ensuring content is within broadcast-safe zones.

- **Zoom:** Magnifies a portion of the image for critical focus.
- **Audio Meter:** Displays audio levels.

Access these tools through the monitor's menu or assign them to the shortcut keys (F1/F2/F3) for quick access.



Image: The VILTROX DC-550 monitor displaying various auxiliary monitoring tools for precise control over focus, framing, and exposure.

## 6. Sunshade Hood Installation

Attach the removable sunshade hood to the monitor to reduce glare and improve screen visibility in bright outdoor conditions.



# 4K HDMI入力&ループ出力

フルHD解像度が真の美しさを映し出します



入出力信号インターフェース：

**HDMI 1.4**

最大対応サイズ：

4K 30Hz、3840x2160  
4096x2160 :  
24Hz 25Hz 30Hz

Image: The VILTROX DC-550 monitor with its sunshade hood attached, enhancing screen visibility in bright environments.

## MAINTENANCE

### 1. Cleaning the Screen

Use a soft, lint-free cloth specifically designed for electronics to gently wipe the screen. For stubborn smudges, lightly dampen the cloth with a screen cleaning solution. Avoid harsh chemicals or abrasive materials.

### 2. Battery Care

To prolong battery life, store the NP-F550 battery in a cool, dry place when not in use. Avoid fully discharging the battery frequently. Recharge the battery regularly, even if not used, to maintain its capacity.

### 3. Storage

When not in use, store the monitor in its provided storage box to protect it from dust, scratches, and impacts. Avoid exposing the monitor to extreme temperatures or high humidity.

## TROUBLESHOOTING



No Power

- Ensure the battery is fully charged and correctly inserted.
- If using external power, verify the power adapter is connected securely and providing the correct voltage (12-18V DC or 5V/3A Type-C).
- Press and hold the power button for a few seconds to ensure it's not just a short press.

No Video Signal

- Check that the HDMI cable is securely connected to both the camera and the monitor.
- Verify that the camera's HDMI output is enabled and configured correctly.
- Try a different HDMI cable to rule out cable issues.
- Ensure the monitor's input source is set to HDMI.

Display Issues (e.g., distorted image, incorrect colors)

- Check the camera's video output settings (resolution, frame rate) to ensure compatibility with the monitor.
- Reset the monitor to factory settings via the menu.
- If dead pixels are observed, contact customer support for assistance.

Touchscreen Unresponsive

- Restart the monitor.
- Ensure the screen is clean and free from moisture or debris.
- If the issue persists, try using the wheel button for navigation.

SPECIFICATIONS

| Feature            | Specification                  |
|--------------------|--------------------------------|
| Brand              | VILTROX                        |
| Model Number       | DC-550                         |
| Screen Size        | 5.5 inches                     |
| Resolution         | FHD 1080p (1920 x 1080 pixels) |
| Brightness         | 1200 nits                      |
| Contrast Ratio     | 1200:1                         |
| Viewing Angle      | 178 degrees                    |
| Aspect Ratio       | 16:10, 16:9, 4:3               |
| Display Type       | LCD                            |
| Response Time      | 5 ms                           |
| HDMI Ports         | 1 (Input/Loop Output)          |
| Hardware Interface | HDMI, Type-C, DC Input         |

|                             |                                              |
|-----------------------------|----------------------------------------------|
| Power Input                 | NP-F series battery, 5V/3A Type-C, 12-18V DC |
| Item Dimensions (D x W x H) | 15.5 x 27.7 x 7.1 cm                         |
| Product Use                 | Photo and video editing                      |
| Image Quality Enhancement   | True color rendering, 3D LUT, Log to Rec.709 |

**WARRANTY INFORMATION**

The VILTROX DC-550 Camera Field Monitor comes with a**3-year manufacturer warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the official VILTROX website or contact customer support.

**CUSTOMER SUPPORT**

For further assistance, technical support, or warranty inquiries, please visit the official VILTROX website or contact their customer service department. Contact information can typically be found on the product packaging or the official VILTROX website.  
Manufacturer: Shenzhen Jueying Technology Co., Ltd.