

VILTROX DC-V1

VILTROX DC-V1 5.5-inch 4K HDMI Touchscreen Camera Monitor User Manual

Model: DC-V1

1. INTRODUCTION

Thank you for choosing the VILTROX DC-V1 5.5-inch 4K HDMI Touchscreen Camera Monitor. This monitor is designed to enhance your filmmaking and photography experience by providing a clear, detailed, and versatile external display for your DSLR or mirrorless camera. Featuring a 5.5-inch IPS panel with Full HD 1920x1080 resolution, 4K HDMI input/output, and advanced functions like 3D LUT support and touchscreen control, the DC-V1 offers professional monitoring capabilities.

This manual provides detailed instructions on how to set up, operate, and maintain your VILTROX DC-V1 monitor. Please read it thoroughly before use to ensure optimal performance and longevity of your device.

2. PACKAGE CONTENTS

Please check the contents of your package to ensure all items are present:

- VILTROX DC-V1 Monitor x1
- Quick-release Sunhood x1
- Storage Bag x1
- Adapter x1
- F550 Battery x1
- Standard HDMI Cable x1
- Mini HDMI Cable x1
- Type-C Cable x1
- User Manual x1

Contenu de la boîte



Moniteur DC-V1	x1		
Pare-soleil amovible	x1		
Sac de rangement	x1		
Adaptateur	x1		
Batterie F550	x1		
Câble HDMI standard	x1		
		Câble MINI HDMI	x1
		Câble Type-C	x1
		Manuel	x1
		Contenu	x1

Image 2.1: All items included in the VILTROX DC-V1 package, neatly arranged on a table.

3. PRODUCT OVERVIEW

Familiarize yourself with the various parts and interfaces of your VILTROX DC-V1 monitor:

Schéma de l'interface du produit



- | | | |
|----------------------------|---|-----------------------------------|
| ① Couvercle de carte SD | ② Touches de raccourci F1/F2/F3 | ③ Bouton de retour |
| ④ Écran d'affichage | ⑤ Bouton d'alimentation | ⑥ Bouton de commande |
| ⑦ Port USB Type-C | ⑧ Trou de repérage | ⑨ Trou de vis 6,35 mm |
| ⑩ Entrée d'alimentation DC | ⑪ Sortie HDMI | ⑫ Entrée HDMI |
| ⑬ Trou de repérage | ⑭ Trou de vis 6,35 mm | ⑮ Sortie du ventilateur |
| ⑯ Prise casque | ⑰ Bouton de déverrouillage de la batterie | ⑱ Entrée d'air de refroidissement |

Image 3.1: A detailed diagram illustrating the various ports, buttons, and features on the VILTROX DC-V1 monitor, with numbered labels for identification.

1. **SD Card Cover:** Protects the SD card slot.
2. **Shortcut Keys (F1/F2/F3):** Customizable function buttons for quick access to features.
3. **Return Button:** Navigates back in menus.
4. **Display Screen:** The 5.5-inch IPS touchscreen display.
5. **Power Button:** Turns the monitor on/off.
6. **Control Knob:** Rotary dial for menu navigation and adjustments.
7. **USB Type-C Port:** For external power input (5V 3A) and firmware updates.
8. **Locating Hole:** For mounting accessories.
9. **1/4 inch Screw Hole:** Standard mounting point for cameras, cages, or tripods.
10. **DC Power Input:** For external DC power (12-18V).
11. **HDMI Output:** Connects to another display or device.
12. **HDMI Input:** Connects to your camera's HDMI output.

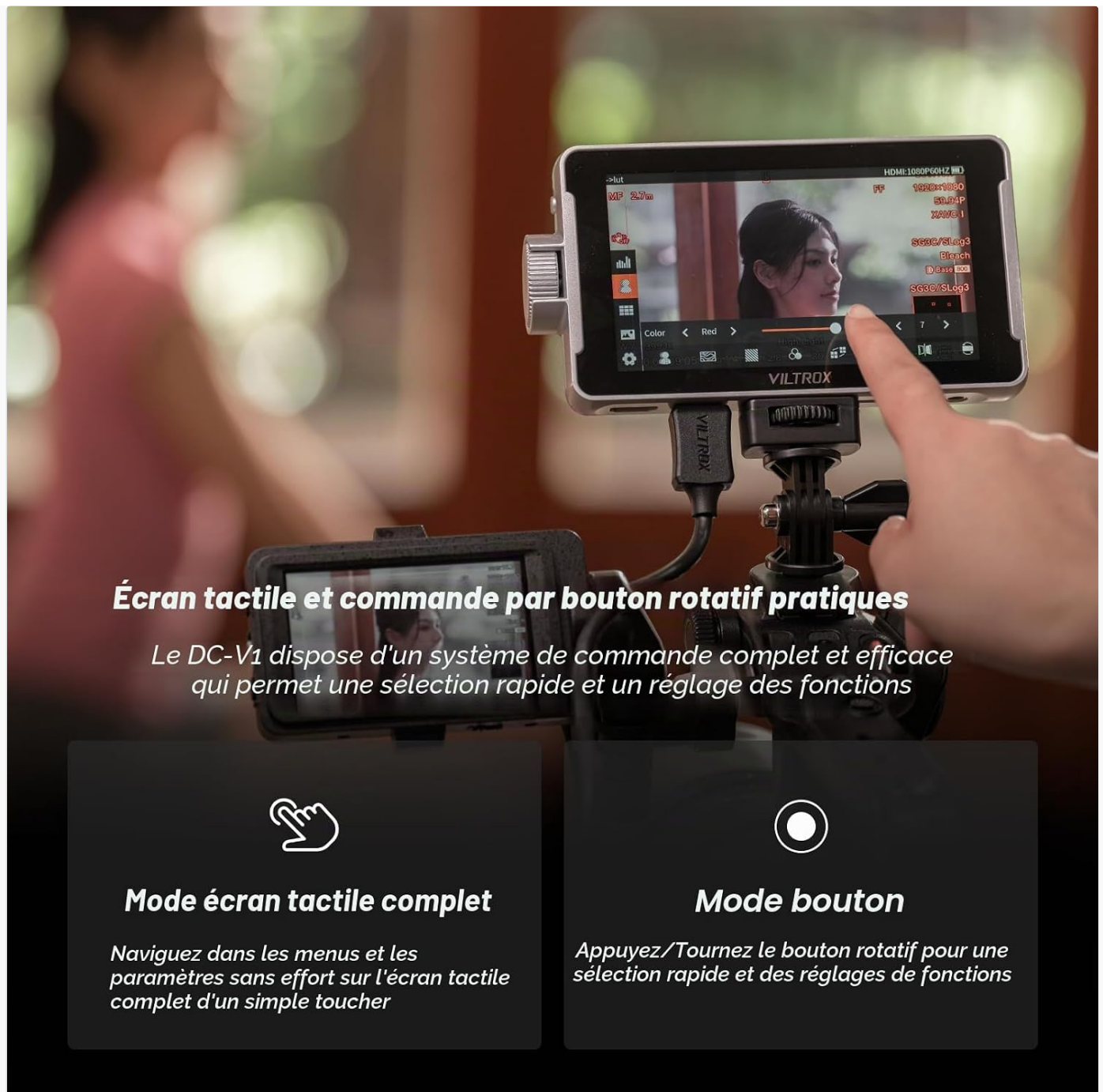
13. **Locating Hole:** For mounting accessories.
14. **1/4 inch Screw Hole:** Standard mounting point.
15. **Fan Outlet:** For heat dissipation.
16. **Headphone Jack:** 3.5mm stereo output for audio monitoring.
17. **Battery Release Button:** Releases the NP-F series battery.
18. **Cooling Air Inlet:** For heat dissipation.

4. SETUP GUIDE

4.1 Powering the Monitor

The DC-V1 monitor offers multiple power options:

- **NP-F Series Battery:** Insert a compatible NP-F series battery (e.g., NP-F550, NP-F750, NP-F970) into the battery slot on the back of the monitor.
- **DC IN (12-18V):** Connect an external DC power adapter to the DC IN port.
- **USB Type-C (5V 3A):** Connect a USB Type-C power source to the USB Type-C port.



Écran tactile et commande par bouton rotatif pratiques

Le DC-V1 dispose d'un système de commande complet et efficace qui permet une sélection rapide et un réglage des fonctions



Mode écran tactile complet

Naviguez dans les menus et les paramètres sans effort sur l'écran tactile complet d'un simple toucher



Mode bouton

Appuyez/Tournez le bouton rotatif pour une sélection rapide et des réglages de fonctions

Image 4.1: The VILTROX DC-V1 monitor highlighting its various power input options: NP-F battery slot, DC IN port, and USB Type-C port.

4.2 Mounting the Monitor

The monitor can be easily mounted to your camera, camcorder, or tripod using the two 1/4 inch screw holes and the included mini hot shoe adapter.

- Attach the mini hot shoe adapter to your camera's hot shoe mount.
- Screw the monitor onto the adapter using one of the 1/4 inch screw holes.
- Adjust the angle for optimal viewing.

Pare-soleil à fixation rapide pour moniteur

Dispose d'un pare-soleil amovible pour une installation et un rangement rapides



Conception à double trous de vis 1/4

Image 4.2: The VILTROX DC-V1 monitor mounted on a camera rig, demonstrating its quick-release sunhood and flexible mounting capabilities.

4.3 Connecting to a Camera

Connect your camera's HDMI output to the monitor's HDMI Input port using the provided HDMI cable. The monitor supports HDMI signals up to 4K 30Hz (3840x2160p, 4096x2160p at 30/25/24Hz).

For audio monitoring, plug your headphones into the 3.5mm headphone jack.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press and hold the Power Button (5) to turn the monitor on or off.

5.2 Menu Navigation and Control

The DC-V1 offers both touchscreen and physical button control for menu navigation:

- **Touchscreen Control:** Tap, swipe, and pinch-to-zoom gestures allow intuitive navigation through menus and settings.
- **Control Knob:** Press the Control Knob (6) to enter menus and confirm selections. Rotate the knob to scroll through options and adjust values.
- **Shortcut Keys (F1/F2/F3):** These customizable buttons provide quick access to frequently used functions.

Alimentations multiples

Plusieurs options d'alimentation pour répondre aux besoins de tournage de longue durée



Image 5.1: The VILTROX DC-V1 monitor showcasing its dual control methods: a user interacting with the touchscreen and another demonstrating the physical control knob.

5.3 Professional Monitoring Functions

The DC-V1 includes a suite of professional tools to assist with precise focus and exposure:

- **3D LUT:** Import custom 3D LUTs via SD card for creative color effects during shooting and post-production.
- **Waveform Parade:** Visualizes the luminance and chrominance levels of your video signal.
- **Vector Scope:** Displays color information, including hue and saturation.

- **Brightness Histogram:** Shows the distribution of brightness levels in your image.
- **Focus Peaking:** Highlights in-focus areas for accurate manual focusing.
- **Audio Column:** Displays audio levels.
- **Image Flip:** Flips the image horizontally or vertically.
- **False Color:** Helps evaluate exposure by displaying different exposure levels as distinct colors.
- **Zoom:** Magnifies a portion of the image for critical focus.



Image 5.2: The VILTROX DC-V1 monitor displaying multiple professional monitoring tools simultaneously, such as waveform, histogram, and focus peaking.

Applications LUT 3D



L'importation de LUT 3D sur un moniteur via une carte SD permet une correction des couleurs précise et l'application de styles de couleur créatifs, ce qui est utile pour les domaines professionnels tels que le cinéma et la photographie



Sans LUT 3D



Avec LUT 3D

Image 5.3: The VILTROX DC-V1 monitor demonstrating the application of 3D LUTs, showing a comparison between an image without LUT and with LUT applied for color correction.

5.4 Firmware Update

The monitor supports firmware updates via an SD card. Please visit the official VILTROX website for the latest firmware and instructions.

6. MAINTENANCE

6.1 Cleaning

- Use a soft, dry cloth to clean the monitor's body.
- For the screen, use a microfiber cloth specifically designed for electronics. If necessary, lightly dampen the cloth with a screen cleaning solution.
- Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the screen or casing.

6.2 Storage

- When not in use, store the monitor in its protective storage bag in a cool, dry place, away from direct sunlight and extreme temperatures.
- Remove the battery if the monitor will not be used for an extended period.

7. TROUBLESHOOTING

If you encounter issues with your VILTROX DC-V1 monitor, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Monitor does not power on.	Low or depleted battery; incorrect power connection.	Ensure the battery is charged or replace it. Check that the DC or USB-C power adapter is correctly connected and supplying adequate power.
No image displayed.	HDMI cable not connected properly; incorrect input source selected; camera output settings.	Verify the HDMI cable is securely connected to both the camera and monitor. Check your camera's HDMI output settings. Ensure the monitor's input source is set to HDMI.
Image is distorted or flickering.	Faulty HDMI cable; resolution mismatch.	Try a different HDMI cable. Ensure the camera's output resolution is compatible with the monitor (up to 4K 30Hz).
Touchscreen is unresponsive or slow.	Temporary software glitch; screen protector interference.	Restart the monitor. Ensure the screen is clean. If a screen protector is used, ensure it is properly applied or try removing it. Use the physical control knob as an alternative.
No audio from headphone jack.	Headphones not fully plugged in; audio settings.	Ensure headphones are fully inserted. Check the monitor's audio settings and volume level.

If the problem persists after trying these solutions, please contact VILTROX customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	VILTROX
Model	DC-V1 (us-dc-v1-tbue-1511)
Display Size	5.5 inches
Panel Type	IPS Touchscreen
Resolution	1920 x 1080 (Full HD)
Brightness	400 nits

Feature	Detail
Contrast Ratio	1000:1
Viewing Angle	160° (H/V)
HDMI Input/Output	Supports up to 4K 30Hz (3840x2160p, 4096x2160p)
Audio Output	3.5mm Headphone Jack
Power Input	NP-F Battery, DC IN (12-18V), USB Type-C (5V 3A)
Dimensions	17 x 10 x 3 cm
Weight	350 grams
Color Calibration	REC-709

Angle de vision ultra-large de 160°

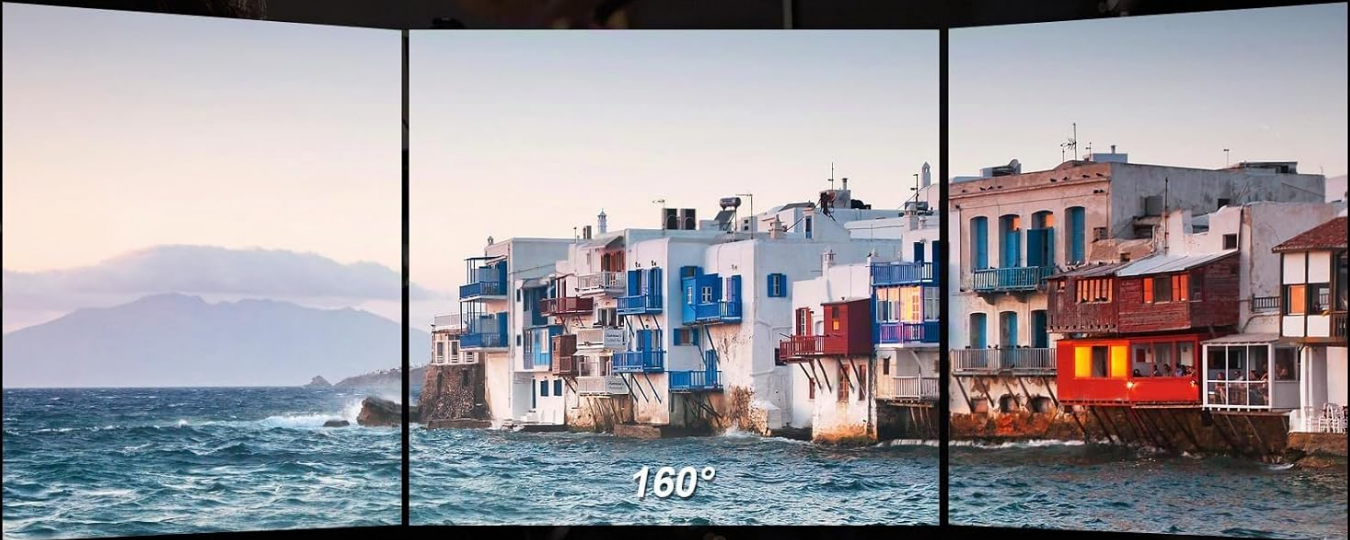
Surveillance avec angle de vision large, aucune crainte pour n'importe quelle scène



Autre



VILTROX 1920x1080



160°

Angle de vision large pour toutes les scènes, angle de vision ultra-large de 160 degrés

Image 8.1: The VILTROX DC-V1 monitor showcasing its 160-degree ultra-wide viewing angle, ensuring clear visibility from various

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The VILTROX DC-V1 monitor comes with a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper maintenance.

Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, warranty claims, or any other inquiries regarding your VILTROX DC-V1 monitor, please contact VILTROX customer support through their official website or the retailer where you purchased the product. You can find more information and support resources on the official VILTROX website www.viltrox.com

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