VILTROX DC-X3

VILTROX DC-X3 Touchscreen Camera Field Monitor User Manual

Model: DC-X3 | Brand: VILTROX

1. INTRODUCTION

The VILTROX DC-X3 is a professional 6-inch IPS touchscreen camera field monitor designed for DSLR, mirrorless, and cinema cameras. It features 4K HDMI 1.4 and 3G-SDI input/output, 2000 nits high brightness, and a 1920x1200 resolution display. This manual provides detailed instructions for setting up, operating, and maintaining your DC-X3 monitor.

2. WHAT'S IN THE BOX

- DC-X3 Camera Video Monitor
- Sunshade Hood
- VILTROX NP-F550 Battery
- VL-550 Cold Shoe Adapter
- 1x Type-C Cable
- 1x Standard HDMI Cable
- 1x Carry Case
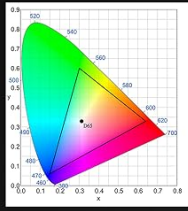- 1x User Manual
- 1x Packing Box

Figure 2.1: VILTROX DC-X3 Monitor and its complete set of included accessories, including the monitor unit, sunshade, battery, cold shoe adapter, cables, and carry case.

3. PRODUCT OVERVIEW

3.1 Physical Features and Ports

The DC-X3 monitor is designed with a robust metal housing and intuitive controls for professional use.

Figure 3.1: Detailed diagram of the VILTROX DC-X3 monitor's physical features, including various ports and buttons.

1. **Back/Menu Button:** Navigates back or opens the main menu.
2. **Shortcut Key (F1-F4):** Four customizable function buttons for quick access to features.
3. **Display Screen:** 6-inch IPS touchscreen with 1920x1200 resolution.
4. **Fan Exhaust Vent:** For heat dissipation.
5. **Indicator Light:** Power and status indicator.
6. **Power Button:** Turns the monitor on/off.
7. **HDMI Input:** Connects to camera for video input.
8. **HDMI Output:** Loops out HDMI signal to another device.
9. **Headphone Jack:** 3.5mm port for audio monitoring.
10. **Cooling Air Intake:** Air intake for the internal cooling fan.
11. **1/4 Screw Hole:** Mounting points for accessories.
12. **DC Port:** DC 12V-18V 2A power input.
13. **Type-C Port:** 9V/3A Type-C power input.
14. **USB Interface:** USB-A port for 3D LUT file uploading.
15. **Battery Release Button:** Releases the NP-F battery.
16. **Battery Slot:** For NP-F series batteries.
17. **SDI Output:** 3G-SDI signal loop out.
18. **SDI Input:** 3G-SDI signal input.

3.2 Touchscreen Interface

The DC-X3 features an intuitive IPS HD touchscreen for easy navigation and control of all functions.

Figure 3.2: Overview of the DC-X3's touchscreen interface, showing menu options and touch gestures.

- **Double-tap:** Double-tap the screen to start the menu options. Tap the blank space to exit the menu mode.
- **Scroll Up/Down (Left Side):** Adjusts volume.
- **Scroll Up/Down (Right Side):** Adjusts backlight.
- **Pinch-to-Zoom:** Zooms in and out on the image.

4. SETUP

4.1 Powering the Monitor

The DC-X3 offers three versatile power supply modes:

- **NP-F Battery:** Insert a VILTROX NP-F550 battery (included) into the battery slot on the back of the monitor.
- **DC Adapter:** Connect a DC 12V-18V 2A power adapter to the DC IN port.
- **Type-C:** Connect a 9V/3A Type-C cable to the Type-C port. This allows powering from compatible power banks or chargers.
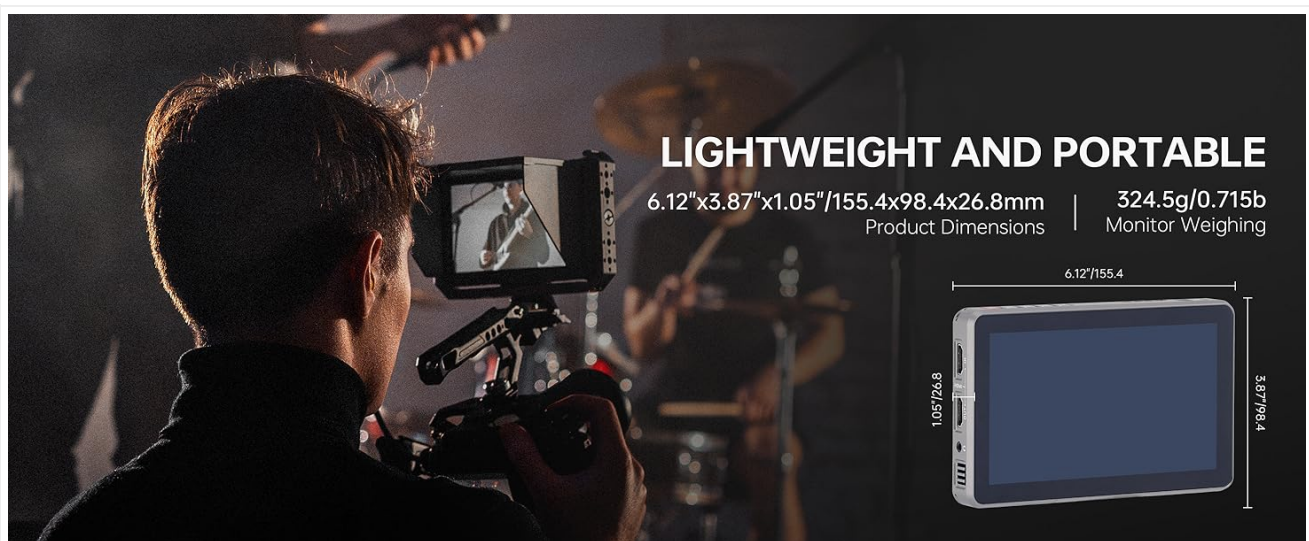

Figure 4.1: Illustration of the three power supply options for the DC-X3 monitor: NP-F battery, DC adapter, and Type-C USB.

4.2 Connecting to a Camera

Connect your camera to the DC-X3 monitor using either an HDMI or 3G-SDI cable.

- **HDMI Connection:** Use the included Standard HDMI Cable to connect your camera's HDMI OUT port to the monitor's

HDMI IN port.

- **3G-SDI Connection:** For professional cameras, connect the camera's SDI OUT port to the monitor's SDI IN port.
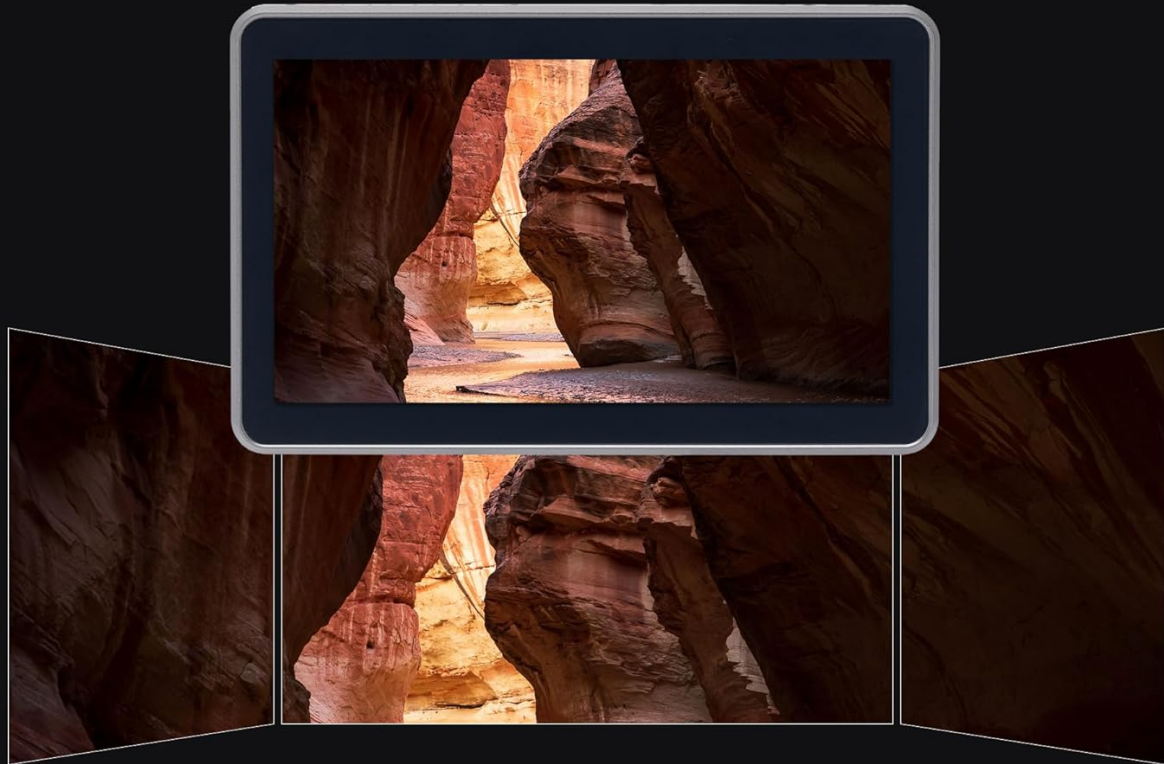

Figure 4.2: The DC-X3 monitor connected to a camera via HDMI, demonstrating simultaneous output to another monitor.

4.3 Attaching the Sunshade Hood

The sunshade hood improves visibility in bright conditions. It can be easily attached and detached.

Figure 4.3: The sunshade hood attached to the DC-X3 monitor, providing shade for improved outdoor visibility.

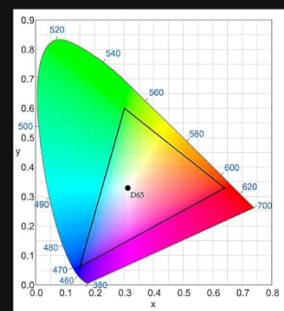## 5. OPERATING INSTRUCTIONS

5.1 Navigating the Menu

Access the main menu by double-tapping the touchscreen or pressing the Back/Menu button. Navigate through options using touch gestures or the rotary dial.

5.2 Assistive Features

The DC-X3 offers 23 assist functions to help with accurate exposure and focus:
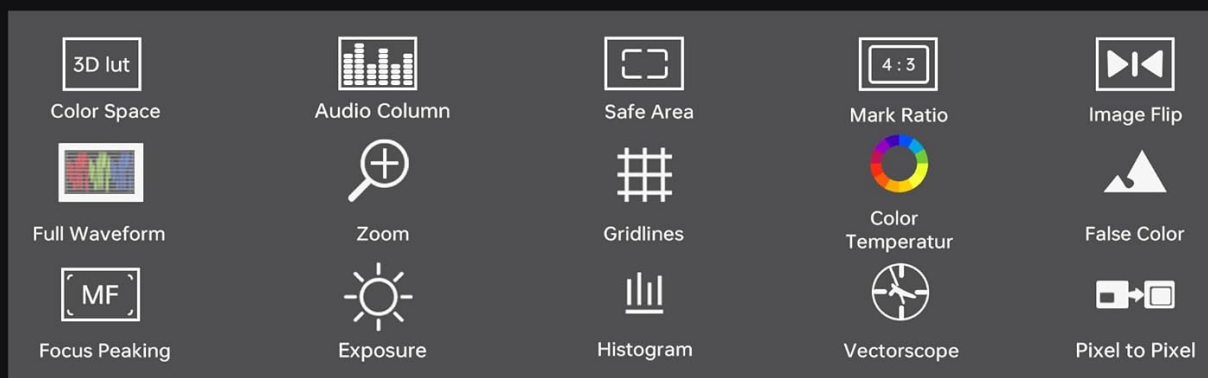
Figure 5.1: The DC-X3's professional monitoring function menu, displaying various assist tools.

- **Waveforms (6 types):** Visual representation of video signal levels.
- **Monitoring Tools (10 types):** Includes Histogram, Vectorscope, RGB Parade, and more for detailed analysis.
- **Annotations & Composition (7 types):** Features like Safe Area, Gridlines, Mark Ratio, and Image Flip.
- **Peaking Focus Assist:** Highlights in-focus areas for precise focusing.
- **False Color:** Displays exposure levels using a color overlay.
- **Zebra Pattern:** Indicates overexposed areas.

5.3 3D LUT Function

Upload up to 20 custom 3D LUT files via the USB interface to apply color grading and monitor footage with desired looks.

Figure 5.2: The DC-X3 monitor's 3D LUT function, allowing users to upload custom LUTs via USB-A.

5.4 Customizing Function Buttons

The four customizable F1-F4 buttons on top of the monitor can be assigned to frequently used functions for quick access.

6. INTELLIGENT TEMPERATURE CONTROL

The DC-X3 features an intelligent temperature control system that automatically adjusts the fan speed to efficiently dissipate heat. The aluminum alloy shell also contributes to effective heat management, ensuring stable performance during extended use.

7. COMPATIBILITY

The DC-X3 is highly compatible with various camera setups and accessories, thanks to its customized 360° rotatable bracket with a cold shoe and 1/4" threads.

Figure 7.1: Examples of the DC-X3 monitor's compatibility with various camera setups, including stabilizers, cold shoe adapters, and camera cages.

8. MAINTENANCE

- Keep the monitor clean using a soft, dry cloth. Avoid abrasive cleaners.
- Ensure all ports are free of dust and debris.
- Store the monitor in its carry case when not in use to protect it from dust and impacts.
- Avoid exposing the monitor to extreme temperatures or humidity.

9. TROUBLESHOOTING

If you encounter issues with your DC-X3 monitor, try the following steps:

- **No Signal:** Ensure all cables (HDMI/SDI) are securely connected and the camera is outputting a signal. Check the input channel setting on the monitor.
- **Power Issues:** Verify the battery is charged or the power adapter is correctly connected. Try a different power source if available.
- **Screen Freezing/Unresponsive:** Restart the monitor by turning it off and on.
- **Overheating:** Ensure the fan vents are not obstructed. If the fan speed is set to 'Off' or 'Low' in hot conditions, consider increasing it to 'Medium' or 'High'.

10. SPECIFICATIONS

Feature	Detail
Display Size	6 inch
Resolution	1920x1200
Brightness	2000 nits
Contrast Ratio	1000:1
Viewing Angle	160°
Input/Output	4K HDMI 1.4 / 3G-SDI
Power Supply	DC adapter, Lithium battery (NP-F), Type-C
Item Weight	12.3 ounces
Manufacturer	VILTROX
Country of Origin	China

11. WARRANTY AND SUPPORT

VILTROX products typically come with a 1-2 year manufacturer warranty. For technical service and support, please contact VILTROX directly. They provide assistance to help you solve any product-related problems.
For more information, visit the VILTROX Official Store on Amazon.

12. OFFICIAL PRODUCT VIDEOS

Below are official product videos from the seller, providing visual guides and demonstrations of the VILTROX DC-X3 monitor.

VILTROX DC-X3 6 Inch Touchscreen Camera Field Monitor - Unboxing & Overview

This video provides an unboxing and overview of the VILTROX DC-X3 monitor, showcasing its components and key features.