

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

> [VILTROX](#) /

> [VILTROX SDI Camera Field Monitor DC-X3 Instruction Manual](#)

VILTROX DC-X3

VILTROX SDI Camera Field Monitor DC-X3

Instruction Manual

1. INTRODUCTION

Thank you for purchasing the VILTROX DC-X3 SDI Camera Field Monitor. This professional-grade monitor is designed to enhance your video production workflow with its high brightness, comprehensive monitoring features, and versatile input/output options. Please read this manual thoroughly before using the product to ensure proper operation and to maximize its performance and lifespan.

2. SAFETY INFORMATION

To prevent damage to the product or injury to yourself or others, read the following safety precautions completely before use.

- Do not disassemble or modify the monitor. Unauthorized modifications can lead to electric shock, fire, or product damage.
- Keep the monitor away from water and moisture. Do not expose it to rain or immerse it in liquid.
- Avoid extreme temperatures. Do not operate or store the monitor in excessively hot or cold environments.
- Use only VILTROX-approved power adapters and batteries. Using incompatible power sources may cause damage.
- Handle with care. Avoid dropping or subjecting the monitor to strong impacts.
- Clean the monitor with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.

3. PACKAGE CONTENTS

Please check the contents of your package to ensure all items are present and in good condition.



Front view of the VILTROX DC-X3 product packaging.



Rear view of the VILTROX DC-X3 product packaging, showing the list of standard accessories included.

- VILTROX DC-X3 SDI Camera Field Monitor
- Carrying Pouch
- Sunshade Hood
- Battery (1 C battery included)
- HDMI-A to HDMI-A Cable
- HDMI-A to HDMI-C Cable
- HD Screen Protector
- Standard Shoe Adapter
- Warranty Card
- Hexagonal Wrench (Optional, if Rig Kit purchased)

4. PRODUCT OVERVIEW

The VILTROX DC-X3 is a 6-inch touchscreen field monitor designed for professional videography. It features a 2000 nits super bright daylight viewable display, 4K HDMI and SDI input/output, and a robust set of monitoring tools.



The VILTROX DC-X3 monitor mounted on a camera, showcasing its compact design and clear display in an outdoor setting.

4.1 Front Panel and Display

The front of the monitor features a 6-inch IPS touchscreen display with Full HD 1920x1080 resolution, 360 PPI pixel density, and a 1000:1 contrast ratio. The 160° viewing angle ensures clear visibility from various positions.



Visual representation of the monitor's display features, including Full HD resolution, pixel density, contrast, and viewing angle.

4.2 Rear Panel and Ports

The rear panel houses the battery plate and various input/output ports for connectivity.



Rear view of the VILTROX DC-X3 monitor, showing the battery plate and ventilation.



Side view of the VILTROX DC-X3 monitor, highlighting the HDMI, SDI, and power input ports.

- **SDI IN/OUT:** For uncompressed, high-definition video transmission.
- **HDMI IN/OUT:** Supports up to DCI/UHD 4K30 video input and output.
- **DC IN:** Power input for external power adapter.
- **Type-C:** USB-C power input.
- **USB:** For firmware updates or external device power.
- **F1-F4 Function Buttons:** Customizable shortcut buttons.
- **Return Button:** Navigates back in menus.
- **1/4"-20 Mounting Points:** For attaching to cameras, rigs, or stands.

5. SETUP

5.1 Attaching the Sunshade Hood

The sunshade hood can be easily attached to the monitor to reduce glare in bright conditions. Align the hood with the grooves on the monitor and slide it into place until it clicks securely.



The VILTROX DC-X3 monitor with its sunshade hood attached, providing improved visibility in bright environments.

5.2 Mounting the Monitor

Use the included standard shoe adapter or the 1/4"-20 mounting points to attach the monitor to your camera, rig, or tripod.



The VILTROX DC-X3 monitor securely mounted on a camera rig, demonstrating its versatility in different setups.

5.3 Powering the Monitor

The DC-X3 offers multiple power supply options:

1. **Sony L-series type batteries:** Insert a compatible battery into the built-in battery plate on the rear of the monitor.



The monitor powered by a Sony L-series type battery inserted into its dedicated slot.

2. **DC Barrel Power Adapter:** Connect a separately available DC barrel power adapter to the "DC IN" port.



The monitor receiving power via a DC barrel power adapter connected to the "DC IN" port.

3. **USB-C Power Adapter:** Connect a USB-C power adapter to the "Type-C" port.



The monitor being powered through its USB-C port, offering flexible power options.

5.4 Connecting Video Sources

Connect your camera or video source to the monitor using either the HDMI or SDI input ports. Use the appropriate cable (HDMI-A to HDMI-A or HDMI-A to HDMI-C) provided, or a compatible SDI cable.

6. OPERATING THE MONITOR

6.1 Touchscreen Interface

The DC-X3 features an intuitive touchscreen interface for easy navigation and control of settings. Swipe, tap, and pinch to zoom for a seamless workflow.



A hand interacting with the VILTROX DC-X3's touchscreen interface, adjusting display settings.

6.2 Monitoring Features

The monitor is equipped with a suite of advanced features for precise image analysis:

- **Histogram:** Displays the tonal distribution of your image.
- **Vectorscope:** Shows the color information of your video signal.
- **Waveform:** Visualizes the luminance and chrominance levels.
- **3D LUT:** Supports custom 3D LUTs for accurate color grading.
- **Peaking Focus Assist:** Highlights in-focus areas for precise focusing.
- **False Color:** Helps evaluate exposure levels.
- **Zebra Stripes:** Indicates overexposed areas.
- **Aspect Ratio Markers:** Guides for various aspect ratios.
- **Image Flip:** Flips the image horizontally or vertically.
- **Gyroscope:** Automatically adjusts screen orientation.



The VILTROX DC-X3 monitor showcasing its advanced monitoring tools, including waveform and histogram displays, for precise video analysis.

6.3 Customizing Function Buttons (F1-F4)

The four customizable function buttons (F1-F4) on the top of the monitor allow you to quickly access frequently used features. Navigate to the settings menu to assign specific functions to each button.



Close-up view of the customizable F1-F4 function buttons on the VILTROX DC-X3 monitor.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your VILTROX DC-X3 monitor.

- **Cleaning:** Use a soft, lint-free cloth to clean the screen and body of the monitor. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaning solution. Avoid spraying liquids directly onto the monitor.
- **Storage:** When not in use, store the monitor in its carrying pouch in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Care:** If using batteries, remove them if the monitor will not be used for an extended period. Store batteries in a cool, dry place.

- **Firmware Updates:** Periodically check the VILTROX official website for firmware updates to ensure your monitor has the latest features and bug fixes.

8. TROUBLESHOOTING

If you encounter any issues with your VILTROX DC-X3 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 battery is charged and properly inserted. Check DC IN or USB-C power connection.
No video signal.	Incorrect input selected; loose HDMI/SDI cable; camera output settings.	Verify correct input source is selected on the monitor. Check cable connections. Ensure camera video output is enabled and set to a compatible resolution.
Touchscreen unresponsive.	Temporary software glitch; screen protector interference.	Restart the monitor. Ensure screen protector is applied correctly without air bubbles.
Image appears distorted or incorrect colors.	Incorrect color space settings; faulty cable.	Check color space settings on both monitor and camera. Try a different HDMI/SDI cable.

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

9. SPECIFICATIONS

Detailed technical specifications for the VILTROX DC-X3 SDI Camera Field Monitor.

Feature	Specification
Model Name	DC-X3
Display Size	6 inches
Resolution	1920 x 1080 (Full HD)
Brightness	2000 nits
Contrast Ratio	1000:1
Viewing Angle	160 Degrees (Real Angle of View)
Input Ports	HDMI, SDI, DC IN, Type-C
Output Ports	HDMI, SDI
Power Supply	Sony L-series type batteries, DC IN, USB-C
Product Dimensions	12.01 x 6.69 x 2.95 inches
Item Weight	2.79 pounds
First Available Date	August 18, 2024

10. WARRANTY AND SUPPORT

VILTROX products come with a standard manufacturer's warranty. Please refer to the included Warranty Card for specific terms and conditions regarding your DC-X3 monitor.

For technical support, service, or warranty claims, please contact VILTROX customer service through their official website or the contact information provided on the warranty card.

VILTROX Official Store: [Visit Store](#)