Canon 3042C002

Canon EOS C700 Cinema EOS Camcorder Body (3042C002) User Manual

Model: 3042C002

1. Introduction

The Canon EOS C700 Cinema EOS Camcorder Body with EF Lens Mount (Model 3042C002) is a professional-grade digital cinema camera designed for high-resolution video production. It features a full-frame sensor capable of capturing images up to 5.9K resolution, offering exceptional image quality and dynamic range. This camcorder is equipped with Canon's EF lens mount, featuring a positive-locking mechanism for secure lens attachment. The C700 FF is optimized for 4K and HDR productions, utilizing triple DIGIC DV 5 image processors to support various recording formats and frame rates.
Key features include:

- Full-frame sensor for up to 5.9K resolution.
- EF lens mount with positive-locking mechanism.
- Approximately 15 stops of dynamic range.
- Triple DIGIC DV 5 Image Processors.
- Internal CFast 2.0 and SD card recording.
- Support for XF-AVC, ProRes, and Raw recording formats.
- SMPTE ST 2084 support for HDR productions.

2. Setup

2.1 Unpacking and Initial Inspection

Carefully remove all components from the packaging. Verify that all items listed in the 'What's in the Box' section are present, including the camera body and battery charger. Inspect the camera for any signs of damage during transit.

2.2 Battery Installation and Charging

1. Insert the provided nonstandard battery into the battery charger.

2. Connect the battery charger to a power outlet. The charging indicator will illuminate.
3. Once fully charged, remove the battery from the charger.
4. Align the charged battery with the battery compartment on the camera body and slide it in until it clicks securely into place.

2.3 Lens Mounting

The Canon EOS C700 features an EF lens mount with a positive-locking mechanism. To mount a lens:

1. Remove the body cap from the camera and the rear cap from the lens.
2. Align the red index mark on the lens with the red index mark on the camera's lens mount.
3. Insert the lens into the mount and rotate it clockwise until it locks securely. The positive-locking mechanism ensures a firm connection, minimizing play.

2.4 Memory Card Insertion

The camera supports CFast 2.0 cards for primary recording and SD cards for auxiliary functions. Locate the CFast 2.0 card slots and SD card slot on the camera body. Insert the cards with the correct orientation until they click into place.

2.5 Attaching the Remote Operation Unit OU-700

The Remote Operation Unit OU-700 provides external control and monitoring capabilities. Connect the OU-700 to the camera body using the appropriate cables. Ensure all connections are secure.



This image displays the Canon EOS C700 camcorder with the Remote Operation Unit OU-700 connected. The top part of the image shows the OU-700 attached to the side of the camera body via cables, highlighting the EF lens mount on the front. The bottom part of the image provides a close-up view of the OU-700's screen, displaying various camera settings such as frame rate (24.00p), aperture (F2.8), shutter speed (1/60), ISO (800), and color temperature (3200K), along with six screen buttons for navigation and control.

3. Operating the Camcorder

3.1 Powering On/Off

To power on the camcorder, locate the power switch, typically on the side or rear of the camera body, and move it to the 'ON' position. To power off, move the switch to the 'OFF' position. Always ensure the camera is powered off before disconnecting power sources or removing memory cards.

3.2 Basic Recording

The EOS C700 FF supports various recording modes and resolutions. For basic recording:

1. Select your desired resolution (e.g., 5.9K, 4K) and frame rate (e.g., 24p, 30p, 72 fps for 4K cropped, 168 fps for 2K Super16 cropped).
2. Adjust exposure settings: aperture (f-stop), shutter speed, and ISO. These can be controlled via physical dials/buttons or through the menu system on the Remote Operation Unit (OU-700) screen.
3. Press the RECORD button to start recording. Press it again to stop.

3.3 Menu Navigation and Settings

The camera's settings are accessible via the menu system, often displayed on the attached Remote Operation Unit OU-700. Use the navigation buttons and the six screen buttons (as shown in the image) to browse and select options. Common settings include:

- **Recording Format:** Choose between XF-AVC, ProRes, or Raw.
- **Resolution/Frame Rate:** Set video output parameters.
- **White Balance:** Adjust color temperature (e.g., 3200K for tungsten, 5600K for daylight).
- **Gamma/Color Space:** Select appropriate settings for your workflow (e.g., Wide DR, BT.709, Canon Log).

3.4 Advanced Recording Features

- **Raw Recording:** Possible in full frame up to 60 fps, 4K Super35 crop up to 72 fps, and 2K Super16 crop up to 168 fps with an optional clip-on Codex Digital Recorder.
- **Simultaneous/Relay Recording:** Record to both CFast card slots simultaneously or use relay recording for extended capture times. You can also record ProRes on one CFast card and XF-AVC on another.
- **Special Features:** Utilize built-in features such as Anti-Shake for stabilized footage, Night Vision for low-light conditions, and Time Lapse for creative effects.

4. Maintenance

4.1 Cleaning the Camcorder

- Use a soft, lint-free cloth to clean the exterior of the camera body.
- For the lens and sensor, use specialized cleaning kits designed for optical components. Avoid touching the sensor directly.
- Keep the lens mount free of dust and debris.

4.2 Storage

When not in use, store the camcorder in a dry, cool place away from direct sunlight and extreme temperatures. Use a protective case to prevent dust accumulation and physical damage. Remove batteries if storing for extended periods.

4.3 Battery Care

To prolong battery life, avoid fully discharging batteries frequently. Store batteries in a cool, dry place. If not used for a long time, charge and discharge them periodically to maintain their capacity.

5. Troubleshooting

5.1 Common Issues and Solutions

- **Camera not powering on:** Ensure the battery is fully charged and correctly inserted. Check the power switch position.
- **Recording errors:** Verify that memory cards are correctly inserted and have sufficient free space. Check card compatibility and format if necessary.
- **No image on display:** Check cable connections to external monitors or the Remote Operation Unit. Ensure the lens cap is removed.
- **Lens not recognized:** Re-mount the lens, ensuring it is securely locked. Clean lens contacts if necessary.

5.2 Contacting Support

If you encounter issues that cannot be resolved using this manual, please contact Canon customer support for assistance. Refer to the official Canon website for contact information and service centers.

6. Specifications

Feature	Specification
Model Name	Canon C700 Cinema EOS Camcorder Body - EF Lens Mount
Item Model Number	3042C002
Brand	Canon
Product Dimensions	6.1 x 12.9 x 6.6 inches
Item Weight	15 pounds
Photo Sensor Technology	CMOS
Video Capture Resolution	4K (up to 5.9K with full-frame sensor)
Maximum Aperture	2.8 f (lens dependent)
Flash Memory Type	CFast 2.0
Video Capture Format	MOV, MP4 (XF-AVC, ProRes, Raw)
Screen Size	3.0 inches (on Remote Operation Unit)
Color	Black
Special Features	Anti-Shake, Night Vision, Time Lapse
Batteries	1 Nonstandard Battery required (included)
Date First Available	January 15, 2020

7. Warranty and Support

7.1 Manufacturer's Warranty

This Canon EOS C700 Cinema EOS Camcorder Body is covered by Canon's standard manufacturer's warranty. The specific terms and duration of the warranty may vary by region. Please refer to the warranty card included with

your product or visit the official Canon website for detailed warranty information.

7.2 Customer Support

For technical assistance, service, or inquiries regarding your Canon EOS C700, please contact Canon customer support. Support resources, including FAQs, driver downloads, and contact information, are available on the official Canon website.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question