

Canon 6389C002

Canon EOS C80 6K Full-Frame Cinema Camera User Manual

Model: 6389C002 | Brand: Canon

1. INTRODUCTION

The Canon EOS C80 6K Full-Frame Cinema Camera is engineered to deliver cutting-edge performance for filmmakers and content creators. Featuring a 6K full-frame back-illuminated CMOS sensor, it ensures stunning detail and color fidelity. The camera supports both full-frame and Super35 modes, offering creative flexibility for diverse projects. It is capable of 6K30, UHD 4K120 (Super35), and DCI 4K/2K recording, providing smooth, high-resolution footage for cinematic productions. With triple-base ISO (800, 3200, 12,800) and over 16 stops of dynamic range, the EOS C80 performs exceptionally in various lighting conditions, preserving intricate details in both shadows and highlights. Dual-Pixel CMOS AF II ensures reliable and fast autofocus for precision in dynamic scenes. Equipped with dual SD card slots and support for Cinema RAW Light LT, HEVC, and AVC codecs, the EOS C80 streamlines workflows from capture to post-production.

2. SAFETY INFORMATION

- **General Safety:** Always handle the camera with care. Avoid dropping or subjecting it to strong vibrations.
- **Water and Moisture:** Do not expose the camera to water or high humidity. If the camera gets wet, immediately power it off and consult a service professional.
- **Temperature:** Operate the camera within the specified temperature range. Avoid extreme heat or cold, and direct sunlight for prolonged periods.
- **Batteries:** Use only genuine Canon batteries and chargers. Do not short-circuit, disassemble, or expose batteries to fire. Dispose of batteries properly.
- **Lens Care:** Avoid touching the lens surface directly. Use a soft, clean cloth for cleaning.
- **Ventilation:** Ensure the camera's ventilation ports are not obstructed during operation to prevent overheating.

3. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- Canon EOS C80 6K Full-Frame Cinema Camera (Canon RF)
- Canon BP-A30N Battery Pack
- Handle Unit
- Canon CA-CP300B Compact Battery Charger
- Canon Single Battery Charger for EOS C300 Mark II C200 and C200B Batteries
- Microphone Holder
- SS-1200 Shoulder Strap
- Tape Measure Hook
- Grip Belt
- Canon RF 24-70mm f/2.8 L IS USM Lens
- 128GB SF-G TOUGH Series UHS-II SDXC Memory Card
- LED Video Light
- Professional Camera Tripod
- Photography Software
- 3 Piece 82mm Filter Kit
- Large Padded Camera Bag
- 12-Inch Flexible Tripod
- Camera Cleaning Kit
- HDMI Cable
- Camera Hand Strap
- Memory Card Wallet
- Memory Card Reader
- Lens Cap Keeper



Figure 4.1: Front view of the Canon EOS C80 camera body, showing the RF lens mount where the lens is attached.

4.2. Installing the Battery

1. Open the battery compartment cover located at the bottom of the camera.
2. Insert the Canon BP-A30N Battery Pack into the compartment, ensuring the contacts align.
3. Close the battery compartment cover until it locks securely.

4.3. Inserting Memory Cards

The EOS C80 features dual SD card slots. Open the memory card slot cover on the side of the camera. Insert the 128GB SF-G TOUGH Series UHS-II SDXC Memory Card into an available slot until it clicks. Close the cover securely.



Figure 4.2: Side view of the Canon EOS C80 camera, illustrating the location of the dual SD card slots for memory card insertion.

4.4. Attaching the Handle Unit and Microphone Holder

Secure the Handle Unit to the top of the camera using the provided screws. Attach the Microphone Holder to the Handle Unit if external audio recording is desired.



Figure 4.3: Top view of the Canon EOS C80 camera, showing the hot shoe and mounting points for accessories like the handle unit and microphone holder.

5. OPERATING

5.1. Powering On/Off

To power on the camera, rotate the power switch located on the top panel to the 'ON' position. To power off, rotate it to 'OFF'.

5.2. Basic Controls and Menu Navigation

The camera features an intuitive control layout. Use the joystick and SET button on the rear panel to navigate through menus and confirm selections. The MENU button provides access to comprehensive camera settings.



Figure 5.1: Rear view of the Canon EOS C80 camera with the LCD screen open, highlighting the joystick, SET button, and MENU button for navigation and control.

5.3. Recording Video

Press the REC button to start and stop recording. The EOS C80 supports various resolutions and frame rates, including 6K30, UHD 4K120 (Super35), and DCI 4K/2K. Select your desired recording format in the camera's menu settings.

5.4. Autofocus (Dual-Pixel CMOS AF II)

The Dual-Pixel CMOS AF II system provides fast and accurate autofocus. Activate autofocus via the dedicated AF button or assign it to a custom function button. You can select different AF modes (e.g., Face Detection, Tracking) through the menu.

5.5. ISO Settings and Dynamic Range

The camera features triple-base ISO settings (800, 3200, 12,800) for optimal performance in various lighting conditions. Adjust ISO sensitivity via the dedicated ISO button or menu. The camera's 16+ stops of dynamic range ensure excellent detail retention in both highlights and shadows.

5.6. Audio Input and ND Filters

The EOS C80 includes two mini-XLR audio inputs for professional audio recording. Adjust audio levels using the dedicated dials. Built-in ND filters can be engaged to control exposure in bright lighting conditions, accessible via a physical switch or menu option.

6. MAINTENANCE

6.1. Cleaning the Camera and Lens

- **Camera Body:** Use a soft, dry cloth to wipe the camera body. For stubborn dirt, slightly dampen the cloth with water. Avoid using organic solvents.
- **Lens:** Use a lens blower brush to remove dust. For smudges, use a lens cleaning solution and a microfiber cloth specifically designed for optics.
- **Sensor:** Sensor cleaning should only be performed by authorized service personnel or experienced users with proper tools to avoid damage.

6.2. Battery Care and Storage

- Charge batteries fully before use.
- Store batteries in a cool, dry place when not in use.
- If storing for extended periods, charge batteries every 6 months to prevent over-discharge.
- Remove batteries from the camera when not in use for prolonged periods.

6.3. Camera Storage

When storing the camera for an extended period, remove the battery and memory cards. Store the camera in a dry, well-ventilated area, preferably in a camera bag or case to protect it from dust and physical damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Camera does not power on.	Battery is depleted or not inserted correctly.	Charge the battery fully. Ensure the battery is inserted correctly and securely.
Autofocus is slow or inaccurate.	Low light conditions, subject lacks contrast, or AF mode is unsuitable.	Ensure adequate lighting. Switch to a different AF mode (e.g., Manual Focus if necessary). Clean lens contacts.
Memory card error.	Card is full, corrupted, or incompatible.	Delete unnecessary files or use a new card. Format the card (this will erase all data). Ensure the card is compatible (UHS-II recommended).
Image appears too dark/bright.	Incorrect exposure settings (ISO, aperture, shutter speed) or ND filter setting.	Adjust ISO, aperture, and shutter speed. Check if an ND filter is engaged unnecessarily or if a stronger/weaker one is needed.
No audio recording.	Microphone not connected, audio levels too low, or input settings incorrect.	Ensure microphone is securely connected to mini-XLR inputs. Check audio input levels and settings in the menu.

8. SPECIFICATIONS

Feature	Detail
Brand	Canon
Model Number	6389C002
Compatible Mountings	Canon RF
Photo Sensor Technology	CMOS
Image Stabilization	Optical

Feature	Detail
Supported File Format	MP4, MPEG-4, MOV
Maximum Focal Length (Lens)	70 Millimeters (with included lens)
Item Weight	14.9 Pounds (approx. with accessories)
Viewfinder Type	Electronic
Memory Storage Capacity	128 GB (included card)
Auto Focus Technology	Phase Detection (Dual-Pixel CMOS AF II)
Total Still Resolution	24 MP (sensor capability)
Focal Length Description (Lens)	24-70mm (with included lens)
Total Video Out Ports	2 (12G-SDI, HDMI)
Frame Rate	30, 120, 24 (various resolutions)
Aperture modes (Lens)	F2.8 (with included lens)
Crop Factor	1 (Full-Frame)

9. WARRANTY AND SUPPORT

9.1. Warranty Information

This Canon EOS C80 camera comes with a 90-day limited warranty. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects under normal use. It does not cover damage caused by misuse, accidents, unauthorized repairs, or normal wear and tear.

9.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact Canon customer support. Refer to the official Canon website for the most up-to-date contact information, service centers, and additional resources.

You may also find additional support and firmware updates on the official Canon support pages for the EOS C80 model.