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**Blackmagic Design CINECAMCPYXD60LFEF**

# Blackmagic Design Pyxis 6K EF Full-Frame Digital Film Camera User Manual

Model: CINECAMCPYXD60LFEF

## 1. INTRODUCTION

The Blackmagic Design Pyxis 6K EF Full-Frame Digital Film Camera is a high-performance cinema camera designed for professional filmmaking. It features a 6K full-frame sensor, offering exceptional image quality and flexibility for various production needs. This manual provides essential information for setting up, operating, and maintaining your camera.



A detailed view of the Blackmagic Design Pyxis 6K EF Full-Frame Digital Film Camera, showcasing its EF lens mount, integrated touchscreen display with recording settings, and various control buttons.

## Key Features:

- 6K Full-frame Camera Body with Dual Native ISO for superior low-light performance.
- Includes DaVinci Resolve Studio for professional editing, color correction, visual effects, and audio post-production.
- RTS/RTMP Streaming capabilities for live broadcasting.
- Gen 5 Color Science for accurate and cinematic color reproduction.
- Bluetooth Control for remote operation via mobile devices.

## 2. WHAT'S IN THE BOX

Please check that all items are present before proceeding with setup:

- Blackmagic Design Pyxis 6K EF Full-Frame Digital Film Camera
- User Manual (this document)
- USB Cable

## 3. SETUP

### 3.1. Battery Installation

The camera requires 12V batteries for operation. Ensure batteries are fully charged before installation. Refer to the camera's battery compartment for correct polarity and secure placement.

## 3.2. Lens Attachment

The Pyxis 6K camera features an EF lens mount. To attach a lens:

1. Remove the body cap from the camera and the rear cap from the lens.
2. Align the red dot on the lens with the red dot on the camera's lens mount.
3. Gently insert the lens into the mount and rotate it clockwise until it clicks into place.

## 3.3. Storage Media

The camera uses CFexpress cards for recording. Insert the CFexpress card into the designated slot until it is securely seated.

## 3.4. Initial Power On

Press and hold the power button to turn on the camera. Follow any on-screen prompts for initial setup, such as setting date and time.

# 4. OPERATING THE CAMERA

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## 4.1. Controls Overview

The camera features a range of physical buttons and a touchscreen interface for control:

- **REC Button:** Initiates and stops recording.
- **ISO:** Adjusts the camera's sensitivity to light.
- **WB (White Balance):** Sets the color temperature.
- **S (Shutter):** Controls the shutter speed.
- **F1, F2, F3:** Customizable function buttons.
- **HFR (High Frame Rate):** Accesses high frame rate settings.
- **MENU:** Opens the camera's main menu.
- **LOCK:** Locks the touchscreen and physical buttons to prevent accidental changes.

## 4.2. Touchscreen Interface

The integrated touchscreen provides access to various camera settings and monitoring tools:

- **RECORD Tab:** Manages recording settings, codecs, and resolutions.
- **MONITOR Tab:** Displays monitoring tools and output settings.
- **AUDIO Tab:** Adjusts audio input levels and settings.
- **SETUP Tab:** Configures general camera settings.
- **PRESETS Tab:** Loads and saves camera presets.
- **LUTS Tab:** Applies Look Up Tables for monitoring and recording.

## 4.3. Recording Settings

Navigate to the **RECORD** tab on the touchscreen to configure your recording parameters:

## Codec and Quality:

- **Blackmagic RAW:** Select this for maximum dynamic range and color fidelity.
- **Constant Bitrate Options:** 3:1, 5:1, 8:1, 12:1 (higher ratio means more compression).
- **Constant Quality Options:** Q0, Q5 (Q0 offers higher quality, Q5 offers smaller file sizes).

## Resolution Options:

- **6K Open Gate:** 6048 x 4032
- **6:5 Anamorphic:** 4838 x 4032
- **6K DCI:** 6048 x 3200
- **6K 2.4:1:** 4048 x 2520
- **Super 35 4:3:** 4096 x 3072
- **4K DCI:** 4096 x 2160
- **Super16 16:9:** 2112 x 1184
- **HD:** 1920 x 1080

# 5. MAINTENANCE

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## 5.1. Cleaning

Regularly clean the camera body with a soft, dry cloth. For the lens and sensor, use specialized cleaning kits and follow manufacturer guidelines to avoid damage. Do not use harsh chemicals or abrasive materials.

## 5.2. Storage

When not in use, store the camera in a cool, dry place, away from direct sunlight and extreme temperatures. Use a protective case to prevent dust and physical damage.

# 6. TROUBLESHOOTING

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This section addresses common issues you might encounter with your Blackmagic Design Pyxis 6K camera.

## 6.1. Camera Not Powering On

- Ensure the battery is fully charged and correctly inserted.
- Check the power cable connection if using external power.

## 6.2. Recording Issues

- Verify that a compatible CFexpress card is inserted and has sufficient free space.
- Check recording settings (codec, resolution) for compatibility with your workflow.
- Format the CFexpress card in-camera if issues persist (this will erase all data).

## 6.3. Image Quality Concerns

- Ensure the lens is clean and free of dust or smudges.
- Check ISO, shutter speed, and aperture settings for proper exposure.
- Verify White Balance settings match your lighting conditions.

For further assistance, please refer to the Blackmagic Design support website or contact customer service.

## 7. SPECIFICATIONS

Feature	Detail
Product Dimensions	6 x 5 x 5 inches
Item Weight	3.96 pounds
Item Model Number	CINECAMCPYXD60LFEF
Batteries	1 12V battery required
Photo Sensor Technology	CMOS
Video Capture Resolution	Up to 6K (various resolutions available)
Maximum Focal Length	36 Millimeters (Lens dependent)
Maximum Aperture	2.8 Millimeters (Lens dependent)
Flash Memory Type	CFexpress
Video Capture Format	MP4 (Blackmagic RAW)
Supported Audio Format	[Multiple]
Screen Size	4 Inches
Connectivity Technology	USB, Bluetooth

## 8. WARRANTY AND SUPPORT

Your Blackmagic Design Pyxis 6K EF Full-Frame Digital Film Camera is covered by a manufacturer's warranty. For detailed information regarding warranty terms, conditions, and duration, please refer to the warranty card included with your product or visit the official Blackmagic Design website.

For technical support, software updates, and additional resources, please visit the Blackmagic Design support page:

[www.blackmagicdesign.com/support](http://www.blackmagicdesign.com/support)

	<p><a href="#">Blackmagic Cloud Store Operation Manual</a></p> <p>Comprehensive operation manual for the Blackmagic Cloud Store series, detailing setup, features, and troubleshooting for high-speed, high-capacity network storage solutions used in professional media workflows.</p>
	<p><a href="#">Blackmagic Cinema Camera 6K Installation and Operation Manual</a></p> <p>Comprehensive guide for the Blackmagic Cinema Camera 6K, covering installation, operation, features, settings, and advanced functionalities. Learn about media preparation, recording, playback, and software integration.</p>
	<p><a href="#">Blackmagic Cloud Store Operation Manual - High-Speed Media Storage Solutions</a></p> <p>Explore the Blackmagic Cloud Store, Cloud Store Mini, and Cloud Pod with this comprehensive operation manual. Learn setup, networking, cloud sync, backup, and more for professional media storage.</p>
	<p><a href="#">Blackmagic Studio Converter: Setup, Features, and Connections Guide</a></p> <p>Comprehensive guide to the Blackmagic Studio Converter, covering setup, connections to cameras and ATEM switchers, front and rear panel features, menu settings, and talkback/tally configurations.</p>
	<p><a href="#">Film and Digital Times Issue 127: Blackmagic URSA Cine 12K LF Camera Review</a></p> <p>Explore the September 2024 issue of Film and Digital Times, a leading guide for cinematographers and filmmakers. This issue features an in-depth review and technical overview of the Blackmagic URSA Cine 12K LF camera, covering its features, design, and applications in motion picture production.</p>
	<p><a href="#">Blackmagic Zoom and Focus Demands User Guide</a></p> <p>Detailed user guide for Blackmagic Zoom and Focus Demands, covering setup, connection, operation, and compatibility with various lenses for Blackmagic Studio Cameras. Learn how to attach, daisy-chain, and utilize features like control knobs, function buttons, and speed dials.</p>