

Fire Cam Onyx 4K

Fire Cam Onyx 4K Helmet Camera User Manual

Model: Onyx 4K | Brand: Fire Cam

INTRODUCTION

This manual provides comprehensive instructions for the Fire Cam Onyx 4K Helmet Camera. Please read this manual thoroughly before using your device to ensure proper operation and to maximize its performance and longevity. The Fire Cam Onyx 4K is designed for recording high-definition video in demanding environments, particularly for firefighters.

PACKAGE CONTENTS

Upon opening your Fire Cam Onyx 4K package, verify that all the following items are included:

- Fire Cam Onyx 4K Helmet Camera
- 32GB U3 Micro SD Card with Adapter
- 2 Rechargeable 3.7V Li-Po Batteries
- BlackJack Fire Cam Mount for US style fire helmets
- Water Resistant Cap (for audio recording)
- Waterproof Cap (no audio, for underwater use up to 30 feet)
- Spare Waterproof O-rings
- 2 Spare Glass Lenses
- USB Cable
- AC Wall Charger

PRODUCT OVERVIEW

The Fire Cam Onyx 4K is a robust helmet camera engineered for reliability and high-quality video capture in challenging conditions. Its design focuses on durability, ease of use, and superior video performance, especially in low-light environments.



Figure 1: Fire Cam Onyx 4K Helmet Camera with its mounting bracket. This image shows the compact cylindrical camera body and the robust mount designed for secure attachment.

Key Features:

- **4K Video Recording:** Captures video at 4K resolution (30FPS) for exceptional clarity. Also supports 1080p at 120FPS, 60FPS, and 30FPS.
- **Optimized Low Light Performance:** Designed to perform effectively in challenging lighting conditions.
- **Durable Construction:** Made of heat-resistant anodized aluminum with a heat-resistant glass lens, suitable for interior firefighting environments.
- **Interchangeable End Caps:** Includes a water-resistant cap for audio recording and a fully waterproof cap for submerged use (up to 30 feet).
- **Photo Mode:** In addition to video, the camera can capture still images.
- **Configurable Settings:** Options for Time/Date Stamp, Time Lapse, Auto Power Off, Audio recording (with appropriate cap), and Auto Power On Record.

SETUP

1. Charging the Battery

1. Insert one of the provided 3.7V Li-Po batteries into the camera.
2. Connect the camera to the AC wall charger using the USB cable.
3. The camera will indicate charging status (e.g., an LED indicator). Ensure the camera is powered off during charging to avoid unintended recording. A full charge typically takes a few hours.

2. Inserting the Micro SD Card

1. Locate the Micro SD card slot on the camera body.
2. Gently insert the provided 32GB U3 Micro SD card into the slot until it clicks into place. Ensure the card is oriented correctly.

3. Attaching the Mount to a Helmet



Figure 2: The Fire Cam Onyx 4K camera securely attached to the brim of a white fire helmet using the BlackJack mount. This demonstrates the typical mounting position for operational use.

1. The BlackJack Fire Cam Mount is designed for US style fire helmets or any brim-style helmet.
2. Securely attach the mount to the helmet brim using the provided hardware. Ensure it is tightened sufficiently to prevent movement during activity.
3. Slide the Fire Cam Onyx 4K camera into the mount until it is firmly seated.



Figure 3: The Fire Cam Onyx 4K camera mounted on a black fire helmet, showcasing its integration with standard firefighting equipment. The camera is positioned to capture forward-facing video.

4. Selecting the Correct End Cap

- Use the **Water Resistant Cap** for operations where audio recording is desired. This cap allows sound to be captured from the surroundings, including radio traffic.
- Use the **Waterproof Cap** when operating in submerged conditions or where maximum water protection is required. This cap does not allow audio recording.
- Ensure the O-rings are properly seated when changing caps to maintain water resistance/waterproofing.

OPERATING INSTRUCTIONS

Powering On/Off

- **To Power On:** Press and hold the power button until the indicator light illuminates.
- **To Power Off:** Press and hold the power button until the indicator light turns off.

Recording Video

1. Ensure the camera is powered on.
2. Press the record button once to start video recording. The indicator light will change to confirm recording is active.
3. Press the record button again to stop recording. The indicator light will revert to standby mode.

Taking Photos

The Fire Cam Onyx 4K supports a dedicated photo mode.

1. With the camera in standby mode, press the mode button (if available, or refer to specific button functions in your quick start guide) to switch to photo mode.
2. Press the record/shutter button once to capture a still image.

Advanced Settings (Time/Date Stamp, Time Lapse, Auto Power Off, Audio, Auto Power On Record)

These settings are typically configured via a configuration file on the Micro SD card or through a dedicated software utility. Refer to the official Fire Cam website for detailed instructions on accessing and modifying these advanced settings.

- **Time/Date Stamp:** Enables or disables the overlay of time and date on recorded video.
- **Time Lapse:** Configures the camera to capture images at set intervals.
- **Auto Power Off:** Sets a duration after which the camera will automatically power off if inactive.
- **Audio:** Controls audio recording functionality (requires the water-resistant cap).
- **Auto Power On Record:** If enabled, the camera will automatically begin recording upon power-on.

MAINTENANCE

Cleaning

- Wipe the camera body with a damp cloth. Avoid harsh chemicals.
- Clean the glass lens carefully with a soft, lint-free cloth, possibly moistened with lens cleaning solution, to avoid scratches and ensure clear video quality.

Battery Care

- Store batteries in a cool, dry place when not in use.
- Avoid fully discharging batteries frequently to prolong their lifespan.
- If not using the camera for an extended period, charge batteries to about 50% before storage.

SD Card Management

- Regularly transfer recorded footage to a computer or external storage device.
- Format the Micro SD card periodically (e.g., monthly or after significant use) to maintain optimal performance and prevent data corruption. Always back up data before formatting.

O-Ring and Lens Inspection

- Before each use, especially when using the waterproof cap, inspect the O-rings for any signs of wear, cracks, or debris. Replace if necessary using the provided spare O-rings.
- Check the glass lens for scratches or damage. Replace with a spare lens if visibility is compromised.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Camera does not power on.	Battery is depleted or not inserted correctly.	Charge the battery. Ensure the battery is correctly inserted. Try a different charged battery.
Camera not recording.	SD card full, corrupted, or not inserted. Camera in photo mode.	Check SD card capacity and format if necessary (after backing up data). Ensure SD card is properly inserted. Switch to video recording mode.
Poor video quality (blurry, dark).	Lens is dirty or scratched. Low light conditions. Incorrect settings.	Clean the lens. If scratched, replace the lens. Ensure appropriate lighting. Check video resolution settings.
No audio recorded.	Waterproof cap in use. Audio recording disabled in settings.	Ensure the water-resistant cap is installed. Verify audio recording is enabled in camera settings.
Camera freezes or becomes unresponsive.	Software glitch. Battery issue.	Perform a hard reset (if applicable, by holding power button for extended time or removing/reinserting battery). Ensure battery is fully charged.

SPECIFICATIONS

Brand	Fire Cam
Model Number	Onyx 4K
Dimensions	4.37 x 1.25 x 1.25 inches
Item Weight	4 ounces
Video Capture Resolution	4K (30FPS), 1080p (120FPS, 60FPS, 30FPS)

Photo Sensor Technology	CMOS
Maximum Aperture	3.5 f
Flash Memory Type	Micro SD (32GB U3 included)
Supported Audio Format	WAV, MP3
Screen Size	2 Inches (Note: This might refer to an internal component or a display on a connected device, as the camera itself is cylindrical without an obvious screen.)
Connectivity Technology	USB
Color	Black
Special Features	Time Lapse, Date Imprint
Batteries	1 Product Specific battery required (included), 2 rechargeable 3.7V Li-Po batteries included in package.

WARRANTY AND SUPPORT


For specific warranty information, please refer to the documentation included with your purchase or visit the official Fire Cam website. Fire Cam offers support for their products, including replacement parts for individual camera components.

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Fire Cam customer support directly. You can often find contact information and FAQs on the official Fire Cam website: [Visit the Fire Cam Store on Amazon](#)



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Related Documents - Onyx 4K

	<p>Fire Cam Camera Comparison: Mini 1080, 1080, Onyx Models</p> <p>Compare features of Fire Cam Mini 1080, Fire Cam 1080, and Fire Cam Onyx action cameras, including video capabilities, battery life, recording times, and environmental resistance.</p>
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[Fire Helmet Camera Policy Template for Fire Departments](#)

A comprehensive policy template for fire departments to manage the use of Fire Helmet Cameras. This document outlines guidelines for on-duty photography, data handling, privacy, and legal considerations, ensuring compliance and responsible use of imaging devices.

**Fire Cam 1080
User Manual**



[Fire Cam 1080 User Manual - Operation and Specifications](#)

Comprehensive user manual for the Fire Cam 1080, detailing setup, operation, technical specifications, mounting, warranty, and return policies. Learn how to capture high-definition video in demanding environments.



[Notifier NFS-320C Intelligent Addressable Fire Alarm Control Panel Datasheet](#)

Detailed datasheet for the Notifier NFS-320C Intelligent Addressable Fire Alarm Control Panel, part of the ONYX Series. Features include modular design, extensive device support, FlashScan protocol, ONYX Intelligent Sensing, SWIFT wireless integration, and comprehensive specifications.