

# Fire Cam Onyx User Manual



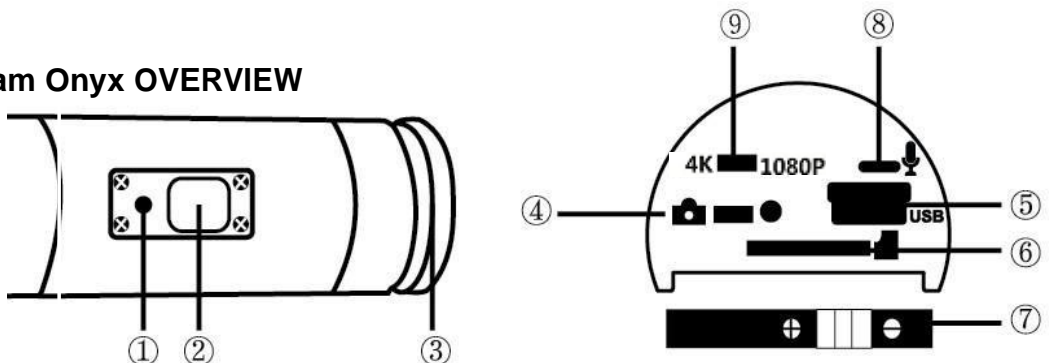
## Welcome

- Thank you for purchasing the **Fire Cam Onyx**
- Please read this instruction manual to ensure correct operation of the camera prior to use.

## What's In The Box

1. Camcorder with Audio Cap (water resistant)
2. Battery 2pcs
3. USB Cable
4. Charger
5. Waterproof Cap
6. Rubber O-ring 6pcs
7. Silicon Grease
8. 2 Glass Len Replacements

### Fire Cam Onyx OVERVIEW

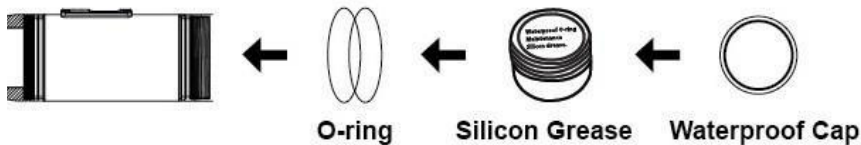


- ① LED      ② Power / Shutter      ③ Rear Audio Cap      ④ Mode Switch  
⑤ USB      ⑥ Micro SD Card Slot      ⑦ Battery      ⑧ Microphone  
⑨ **4K / 1080P** Mode Switch



### Using Fire Cam Onyx Underwater

Put some silicon grease on the rubber O-rings from time to time, especially before using underwater. Make sure the rear cap ③ is closed tight. Using waterproof cap will not allow audio recording.



## Initial Set Up

Unscrew the rear audio cap ③. Insert battery into battery slot ⑦. Make sure camera is OFF before adding or removing the micro SD memory card. Insert the card, label facing down, into rear card slot ⑥ until it clicks to hold it. Plug the USB cable and charger to the camera ⑤. Shut camera power off and LED ① is green while charging. It will go off when battery is fully charged. If charging through PC, shut camera off after connection. LED will remain green while charging. Allow at least 4 hours on first charge. Recording time averages around 60-75 minutes in 4k and 1080-120fps; 120 minutes in 1080-60fps or 30fps on a fully charged battery.

## Micro SD Card Requirements

The camera will only operate a FAT32 formatted micro SD memory card, up to 128GB. A minimum speed of Class 10 / U1 is required. Upon start up, the camera will automatically convert 64gb and 128gb exFAT cards to the FAT32 format.

DO NOT store any other data on the micro SD memory card being used in the camera.

Memory cards should be formatted for trouble free performance of the camera on first use and after transferring video files. All data will be erased when formatting so make sure all important video files are transferred first.

Fire Cam recommends SD Card Formatter at:  
[https://www.sdcard.org/downloads/formatter\\_4/](https://www.sdcard.org/downloads/formatter_4/)

## Installing/Removing Battery

The battery is designed to have a very tight fit to maximize reliability in high vibration activities. To remove the battery, pull it out with a firm grip.

## Power on/off Your Fire Cam Onyx

Turn Fire Cam Onyx On	Turn on the Fire Cam Onyx by pressing the Power/ Shutter button (2) until the blue LED turns on. The camera will vibrate once long. After releasing the button the red LED will flash and beep and start recording. LED will continue to flash red while recording. Press Power/ Shutter button again to stop recording and enter stand by mode.
Turn Fire Cam Onyx Off	Turn the Fire Cam Onyx off by pressing the Power/ Shutter button (2) in standby mode until the red LED flashes. The Fire Cam Onyx will short vibrate twice and beep 6 times and will switch off.

- \* If no micro SD card is installed, the LED will flash red and blue.
- \* If battery is not charged, camera will turn on and shut off immediately.
- \* Format micro SD memory card if LED remains a solid light after power on.

**Estimated Storage Chart**

Mode	Resolve	8GB	16GB	32GB	64GB	128GB
Take a Picture	5M	6000	12000	24000	48000	96000
	12M	2500	5000	10000	20000	40000
Take a Video	4K30pfs	30mins	60mins	120mins	240mins	480mins
	1080P60fps	60mins	120mins	240mins	480mins	960mins
	1080P120fps	30mins	60mins	120mins	240mins	480mins
	1080P30fps	100mins	200mins	400mins	800mins	1600mins

# SETTINGS.TXT File

You can change the settings of the camera via the SETTINGS.TXT file. The file will be created automatically on the micro SD card after the camera is turned ON. Plug the camera into the PC via the USB cable and open the Settings file. When changing settings keep all line spacing the same. Replace number by highlighting it. Click Save file to save new settings.

```
#####
#system setting
# CAUTION: TO PREVENT SERIOUS SYSTEM CRASH, ONLY ENGLISH ALPHA-NUMERICS CAN BE USED FOR BELOW
PARAMETERS
#####
VERSION                = V201907241                # DO NOT CHANGE
VIDEO_RESOLUTION_CHANGE = 0                        # (0=4k30fps<->1080p60fps,
1=4k30fps<->1080p120fps, 2=4k30fps<->1080p30fps) for switch key quickly change video
resolution)
VIDEO_TIME              = 3                        # (0=3mins, 1=5mins,
2=10mins,3=15mins, 4=30mins) recording interval time.4K 30FPS and 1080P120FPS not support
30mins
QUALITY                 = 0                        # (0=fine, 1=good, 2=normal)
LOOP_RECORD             = 0                        # (0=off, 1=on)
DATE_STAMP              = 0                        # (0=off, 1=on)
TIMELAPSE              = 0                        # (0=off, 1=1s, 2=5s, 3=10s, 4=30s,
5=60s) example:Set 1,Record one frame per second
AUDIO_RECORD            = 1                        # (0=off, 1=on)
AUTO_POWERON_REC       = 1                        # (0=off, 1=on)
AUTO_POWER_OFF         = 1                        # (0=off, 1=3min, 2=5min, 3=10min)
TIME_SET                = N2019.01.01.00:00:00    # (Y=change N=No change
DEFAULT_SETTING        = 0                        # (0=False, 1=True) when set to 1,
the camera will ignore other settings, set to system default and write the default settings in
this file
#####
#end
#####|
```

\*Video Resolution- Frames per second options include:

4k@30fps/1080p@60fps; 4k@30fps/1080p@120fps; 4k@30fps/1080p@30fps

\*Video Time-to avoid accidental loss of video, record time is saved in time segments.

15 minute intervals is default setting. Maximum interval time in 4k and 1080p120fps is 18 minutes and 30 minutes in 1080p60fps and 1080p30fps.

\*Loop record- On will record over oldest video files when SD card is full

\*Date Stamp-On will stamp video/picture with date and time.

\*Time Set format is Year.Month.Day.Hour(military):Minute:Second.

Change N to Y to change and save file.

NOTE: Date/Time will reset to default after battery is discharged or removed for more than 30 minutes.

\*Auto\_Power\_Off- On will power off camera when in standby mode after 3min/5min/10min



## Take a Video

To take videos with the Fire Cam Onyx, make sure that the Video/Photo switch ④ is set in the video mode. Then, choose 4K or 1080p resolution by switching the 4K/1080p switch ⑨. Refer to Settings.TXT File to change FPS (frames per second) options for 4K/1080p. The recommended default setting is set at 4k@30fps/1080p@60fps. Turn on the camera by pressing the Power button ②. Auto record is the default setting. Camera will start recording after power on sequence. The red LED will blink while the video is recording. Press the Power/Shutter button ② again, it will beep twice and vibrate once to stop recording. Camera will be in standby mode and recording can be started again by pressing power button.



## Take Still Pictures

To take still pictures with the Fire Cam Onyx, make sure that the Video/Photo switch ④ is set to the left for photo mode. You may choose 5MP/12MP by switching 4K/1080p switch ⑨ (4K=5MP / 1080P=12MP). Turn on the camera by pressing the Power button ②. Auto record is the default setting. Camera will start taking pictures. The red LED will blink and it will beep once. Press the Power/Shutter button ② again and it will beep twice to stop taking photos and to go back to the standby mode.

In photo mode the Fire Cam Onyx will take sequentially photos every 3 seconds. It stops automatically if the battery is empty or if the micro SD card is full. Please note that the camera can be stopped only when red LED is ON. When green LED is ON, it indicates that the photo file is being saved onto the micro SD card and recording can't be stopped.



## Playback On Your Computer

Remove the rear audio cap ③. Connect to computer via USB cable from the USB port ⑤. The camera will turn on and be recognized automatically as USB Device. You can also remove the micro SD card and use your own card reader connected to the computer.

**\*\*For smooth playback of your videos recorded by Fire Cam cameras, download VLC Media Player at:**

<https://www.videolan.org/vlc/index.html>



### **Caution!**

The device must be power on while connected with computer for data download. Do not remove the battery. The camera will be recognized as a storage device on PC only when mode switch is set to video. When you remove the battery while the video is playing, damage to your video data could occur.

## **On a MAC**

Plug the Fire Cam Onyx into your MAC with the included USB cable and turn your camera on. The MAC OS will recognize the camera as an external hard drive. Ensure that the camera is set to video mode before connection to MAC.

## **IMPORTANT TIP FOR MAC USERS**

When deleting files from your micro SD memory cards, you must empty the trash before removing it or unplugging the Fire Cam Onyx. If you do not empty your trash the photos and videos files will not be completely erased from your cards.

**LED STATUS  
TABLE**

Status Table	Green LED	Red LED	Blue LED
Standby	Off	Off	On
Battery Charging	On	Off	Off
Taking Video	Off	Flashing	On
Taking Photo	Off	Flashing	On
Low Battery	Off	Speedy Flashing	On
No micro SD Card	Off		On
Micro SD Card Fill Up	Off		On
Data Transfer	Off		On

## **Glass Lens Replacement**

The protective glass lens in the cap is replaceable if cracked by an impact. Unscrew the lens cap from the camera body. On the inside of cap is a thick washer to remove. Insert small needle nose or snap ring pliers or similar tool into the 2 holes in the washer and unscrew. Remove the glass lens and reuse the o-ring that goes between the cap and glass for waterproof seal. Insert new glass lens onto o-ring and screw washer on. Do not overtighten washer.



## Mounting Fire Cam BlackJack Holder

With set screws loose, fit the BlackJack mount on the right or left brim of the fire helmet. It can be installed above the brim or below the brim depending on the view from your camera. If below the brim the camera can be installed upside down to expose power button. The video player can flip the image to upright for playback.

Snug the 2 set screws on the brim BEING CAREFUL NOT TO OVER TIGHTEN. Place the camera inside of the BlackJack mount making sure the button is on the top and camera is level. Tighten down the set screw to hold the camera BEING CAREFUL NOT TO OVER TIGHTEN. If the nylon tip set screw starts to make marks on the camera, this will not damage the integrity of the unit. A small piece of black tape can help limit the marks.

**\*\*Replacement screws and wrench are available on the website to purchase**



### Battery Notes:

\*Average cycle life of battery is between 1-2 years depending on use and will need replacement. Replace when operating time is reduced.

\*Batteries may need recharged if camera is not used regularly.

**Contact Fire Cam Support at 618-416-8390, M-F Central or [support@firecam.com](mailto:support@firecam.com) for assistance or replacement parts.** Additional batteries, external battery charger, and mounting options are available at [www.firecam.com](http://www.firecam.com).

## **Technical Specifications**- may change without notice

### **Optics:**

- WIDE ANGLE view
- f/2.0, fixed focus glass lens

### **Video:**

- Resolution Settings: 4K: 3840x2160 @ 30fps
- Full HD Resolution Settings: 1080p: 1920x 1080 @120/60/30fps
- Sensor Type: 1 / 2.3" HD CMOS
- Light Sensitivity: 1.4 V/lux-sec (550nm)
- Video Format: MJPG codec, .MP4 file format
- Exposure Control : Auto
- White Balance: Auto

### **Audio:**

- Built-in microphone

### **Photo:**

- Resolution: 4032 x 3024
- Camera: 12.0 Mega Pixels
- Format: JPEG
- Capture mode: Auto snap shot every 3 seconds

### **Storage:**

- Memory: Micro SD card, up to 128GB capacity (recommended Class 10 or above)
- Avg. Record Time: 15~30min/4GB

Product size: 104 x 32 x 32 mm

Weight: 104g

Operating System (for USB drive):

Win 7, Win 8, Win 10,; Mac OS X 10.6+

## WARRANTY / DISCLAIMER:

Abuse of Camera IS NOT covered under warranty. Fire Cam warrants its products against defects in material or workmanship for 12 months from date of purchase unless otherwise specified. This warranty also includes the "Fire Cam Damage" warranty. If the cameras components get damaged in a fire, you are covered for one free replacement. The Fire Cam 4K Fire Helmet Camera's warranty is limited to the replacement or repair of the defective item at no charge if we determine the item to be defective. This warranty shall not apply to any item subject to misuse including such as failure by buyer to follow instructions, product modification, normal wear and tear, negligent or improper operation. Abuse of camera, cable or accessories IS NOT covered under the warranty. Fire Cam products are not recommended for concrete training towers or flashover chambers where it could sustain high temps for long periods of time. Electronic damage due to over-voltage, incorrect polarity from product power supplies, or incorrect MAINS voltage is not covered under the warranty. DO NOT USE ANY AFTERMARKET CHARGERS FOR YOUR CAMERAS. Fire Cam chargers are designed specifically for Fire Cam's only. Modification, repair, or attempted repair by anyone other than Fire Cam or without the written permission of Fire Cam will void this warranty. This warranty covers the cost of factory repair, labor and parts on eligible equipment which is returned. Equipment, which is repaired under this warranty will be returned freight prepaid. If it is determined that the Fire Cam does not need repair, the purchaser shall pay for return shipping charges. Disclaimer: Fire Cam does not assume any responsibility for any accidents or injuries incurred to the user of the Fire Cam Fire Helmet Camera.

## WARNING!

Firefighting is a dangerous activity and should only be performed by a trained professional. The end user of Fire Cam products assumes all responsibility connected with the use of this product including but not limited to continuing education, and activity that conforms to local Standard Operating Procedures. Neither the manufacturer nor any distributor assumes any liability for injuries sustained while using Fire Cam products. The Fire Cam® Fire Helmet Cameras TM are manufactured of anodized aluminum, and may retain heat for several minutes after being exposed to a heated environment such as a structure re or training re so it needs to be handled with care. The end user is responsible for installation consistent with the mounting instructions, as well as regular safety inspections of the BlackJack Holder and Fire Cam Fire Helmet Cameras. For further questions, please go to [www.FireCam.com](http://www.FireCam.com) under the "contact us" page.

## RETURNS:

### 3 REASONS FOR RETURNS:

1. Defective item.
2. Wrong item received.
3. Departmental policy that prevents use of the camera.

\*All returns must be authorized. \*

To receive authorization for a return, you must contact customer service to obtain a Return Authorization number known as an RA #. Upon approval, an RA form will be emailed which must be completed in full and returned with item(s). All returns that are not exchanged for another item can be refunded only within 14 days of the original purchase date and refund is subject to a 15% restocking fee and the item MUST be UNUSED / NOT DAMAGED and in the ORIGINAL box. If the requested items are not in stock by the time we process your RA, your credit card will be refunded for the value of the items returned to our warehouse to avoid further delay on your request. (in which case the 15% restocking fee will be waived).

Once you receive your RA #, you must ship the item(s) back within 7 business days to receive an exchange or the RA # will become null and void. You will be responsible for the return shipping costs. We do not refund shipping costs on returns and or exchanges.

Pack your item(s) in the original shipping box if possible and insure your package for the full value of merchandise and return it to us using the delivery service of your choice. We are not responsible for lost or damaged return packages. We will notify you via e-mail once your return has been processed.

Depending on where you purchased your Fire Cam®, some cameras may be covered under the "Fire Cam Damage" warranty throughout the warranty period. If your cameras components accidentally get damaged in a fire, you are covered for one FREE replacement. This warranty ONLY applies to customers who purchase directly from Fire Cam unless a distributor of Fire Cam otherwise specifies. Fire Cam products are not recommended for concrete training towers or flashover chambers where it could sustain high temps for long periods of time and this warranty will not apply to repeated abuse of the product. We are the ONLY Fire Helmet Camera™ manufacturer and the ONLY company that offers this type of warranty. Please go to [www.FireCam.com](http://www.FireCam.com) for more information.