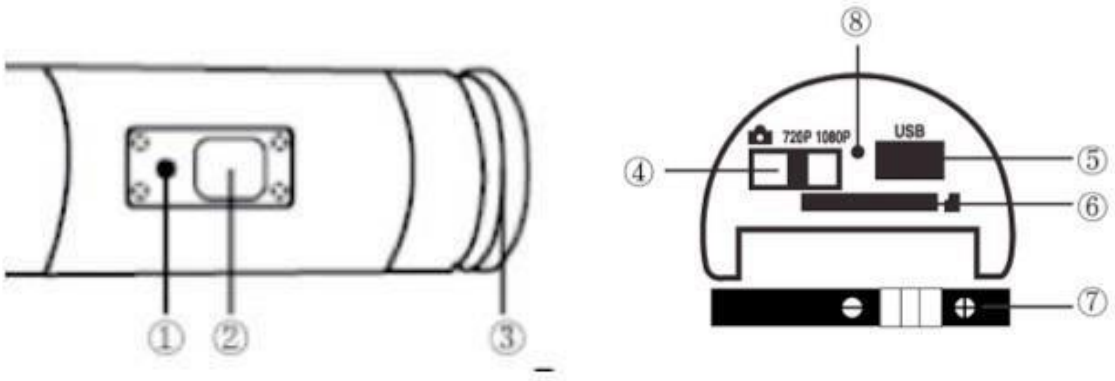


# Fire Cam Mini 1080 User Manual





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

## Initial Set Up

1. Unscrew the rear cap located at the back of the Fire Cam MINI 1080. Install a micro SD memory card, minimum speed Class10/U1, maximum 128gb, into the rear slot. To insert the micro SD card, slide the micro SD card into the card slot on the back of the Fire Cam MINI 1080 with the card label facing down. The micro SD card will click into place once it is inserted past flush with the camera.

2. Insert battery until plastic clip catches and secures battery in camera. **Plastic Clip must remain on battery to secure it in camera.** Use tab of clip to remove battery when needed. Battery removal may be tight on first use but will be easier after multiple uses.

3. To charge battery, plug the USB charger to the camera. The blue light is on while charging and goes off when the battery is fully charged. You can record up to 60 minutes with one charge.

## Micro SD Card Requirements

\*\*The camera will only operate FAT32 formatted micro SD memory cards up to 128gb. A minimum speed of Class10/U1 is required. Upon start up, the camera will automatically convert exFAT 64gb and 128gb SD cards to the FAT32 format.

\*\*DO NOT store any other data on the memory card being used in the camera.

\*\*Make sure camera is off before inserting or removing the SD memory card.

\*\*If no micro SD memory is inserted in the Fire Cam MINI 1080, the LED on top of the camera will blink red and blue when powered on.

**\*\* Memory cards should be formatted for trouble free performance of the camera on the 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 the FREE SD Formatter at:

[https://www.sdcard.org/downloads/formatter\\_4/](https://www.sdcard.org/downloads/formatter_4/)

Download and open program. Insert micro SD card into the computer's card reader and format, or insert in camera and connect via USB cable.

\*\*Reformat SD card if camera has a solid blue light after power on.

## Rear Cap Options

1. Water Resistant Audio Cap (with hole) is used for standard firefighting conditions and allows for sound to be recorded.
2. Waterproof Cap (solid) is used for underwater conditions or heavy water use. NO audio will be recorded. Use 2 o-rings in rear grooves on camera housing with a little grease (both included), Install cap for a waterproof seal.

## SETTING File (text document)

```
#####  
#system setting  
#####  
VERSION          = V2016031701          # can't change  
VIDEO_TIME       = 5                     # (0=1mins, 1=2mins, 2=3mins,3=5mins,  
4=10mins,5=15mins) recording chunk time  
QUALITY          = 0                     # (0=fine, 1=good, 2=normal)  
LOOP_RECORD      = 0                     # (0=off, 1=on)  
DATE_STAMP       = 0                     # (0=off, 1=on)  
AUDIO_RECORD     = 1                     # (0=off, 1=on)  
AUTO_POWER_OFF   = 1                     # 0=0ff, 1=3min,2=5min,3=10min  
TIME_SET         = N2016.01.01.00:00:00 # Y=change N=not 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 Time: The length of the video before the camera saves the file, up to 15 minute segments. The camera does not stop recording, The file is only split to avoid accidental loss and minimize download time.

\*\*Quality: The sharpness of the video. Fine is the best.

\*\*Loop Record: When selected ON, camera will record over oldest video files when memory card is full.

\*\*Date Stamp: Shows the date and time at the bottom right corner of the video/photo when selected ON.

\*\*Audio Record: Camera audio can be turned ON or OFF

\*\*Auto Power Off: Normally set to 1 to save battery if the camera is not recording.

\*\*Time Set: The actual date and time (military). Please remember to put a "Y" in front of the year to update. YYYY.MM.DD.HH:MM:SS

\*\*Default: Changes everything back to default settings.

\*\*\*WHEN MAKING CHANGES TO FILE:

1. Keep all text in alignment by replacing number
2. Click File>Save after changes and restart camera for new settings to take effect.

Storage Chart						
Mode	Digital Photo			HD Video Recording		
	8GB	16GB	32GB	8GB	16GB	32GB
720P	8640	17280	34560	30 mins	60 mins	125 mins
1080P				50 mins	95 mins	200 mins

## Take a Video

To take videos with the Fire Cam MINI 1080, move Mode Switch to desired video resolution 720p or 1080p on back of camera. Turn on the camera by pressing the Power button until the light comes on. The camera will beep 3 times and vibrate and then will automatically start recording. The red LED will blink while the video is recording. Press the button again to stop recording and enter standby mode. Recording can be started again by pressing button. To turn off the camera, hold the button down until the camera starts beeping. It will beep 6 times and vibrate before shutting off.



## Take Still Pictures

To take still pictures with the Fire Cam MINI 1080, move Mode Switch to left side for photo mode. Turn on the Fire Cam MINI 1080 by pressing the Power button. The camera will automatically start taking photos and the red LED will blink. Press the button again to stop taking photos and to go back to the standby mode. In photo mode the Fire Cam MINI 1080 will take photos every 3 seconds. It stops automatically if the battery is empty or if the micro SD card is full.



## Playback On Your Computer

Unscrew the rear cap, power on the Fire Cam MINI 1080, connect with your computer via USB cable from the USB port. The camera will be recognized automatically as USB Device. Or you can take out the micro SD card and use your own card reader to connect with your computer.

\*\*The device must be powered on while connected with computer for data download. Don't remove the battery while connected or files could be damaged.

\*\*The camera will be recognized as a storage device on PC only when mode switch is set to video.

\*\*Format SD card regularly after transferring video files.

\*\*For smooth playback of your videos download the VLC Media Player:

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

LED Status	Red LED	Blue LED
Standby	Off	On
Battery Charging	Off	Off
Taking Video	Flashing	On
Taking Photo	Flashing	On
Low Battery	Off	On
No SD Card	Fast Flashing	On
SD Card Full	Fast Flashing	On
Data Transfer	Fast Flashing	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.

\*Do not remove plastic clip holder on battery.

## **Technical Specifications-** subject to change

### **Optics:**

- WIDE ANGLE view
- f/2.4, fixed focus glass lens

### **Video:**

- HD Resolution Settings: 720p: 1280 x 720 @60fps  
1080p: 1920 x 1080 @30fps
- Sensor Type: 1 / 4" HD CMOS
- Light Sensitivity: 1.4 V/lux-sec (550nm)
- Video Format: MJPG codec, .AVI file format
- Exposure Control : Auto
- White Balance: Auto

### **Audio:**

- Built-in microphone

### **Photo:**

- Resolution: 2592 x 1944
- Format: JPEG
- Capture mode: Auto snapshot every 3 seconds

### **Storage:**

- Memory: Micro SD card, support Max up to 32GB capacity (recommended Class 6 or above)

Product size: 86 x 30 x 30 mm

Weight: 94g



**Additional batteries, external battery charger, and mounting options are available at [www.firecam.com](http://www.firecam.com).**

**Contact Fire Cam Support at 618-416-8390, M-F Central or [support@firecam.com](mailto:support@firecam.com) for assistance or replacement parts.**

**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. The Fire Cam Mini HD and the Fire Cam 1080 Fire Helmet Cameras warranty are 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, ordinary 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™ 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.