

# SHOTKAM

GUN CAMERA

## The Complete Manual



## BEFORE GETTING STARTED

Video tutorials are available online at [www.shotkam.com/support](http://www.shotkam.com/support)

Charge your ShotKam upon receipt (see page 6)

## ALWAYS ENSURE YOUR GUN IS UNLOADED WHILE SETTING UP YOUR SHOTKAM

### WHAT'S INCLUDED

ShotKam Gun Camera

12 Gauge bracket mount

Micro SD memory card

>All necessary files are pre-installed on the memory card

USB cable and wall charger

Hard camera case

Allen key to tighten screws

#### Spare parts:

- Silicon rear cap
- Front lens cover
- Rubber mounting pads
- O-ring
- Bracket screws
- SD memory card adapter
- Allen key



### LED LIGHTS

#### SOLID LEDs

- Wake Up
- Ready to shoot. Blue LED will come on after recoil to indicate a shot was saved.
- + Connected to Wi-Fi
- Fully Charged

#### FLASHING LEDs

- Sleep Mode
- Saving Video
- Charging (approx. 2 hours to fully charge)
- Initiating Wi-Fi Mode
- + SD Card Missing or Full

## TABLE OF CONTENTS

### INITIAL SET-UP: PRE-SHOOTING

STEP 1: MOUNTING THE SHOTKAM.....	3
STEP 2: SHOTKAMPRO APP	
PHONE/iPAD/TABLET.....	3
WI-FI.....	3
STEP 3: ADJUSTING THE SETTINGS.....	4
ALIGNING THE RETICLE.....	4
ALIGNING TO POA VS. POI .....	5
RETICLE STYLES.....	5
DOWNLOAD A TEST VIDEO.....	5
HUNTING.....	5
STEP 4: CHARGING/BATTERY.....	6
STEP 5: MEMORY CARD.....	6
STEP 6: READY TO SHOOT.....	7

### INITIAL SET-UP: POST-SHOOTING

STEP 1: WATCHING YOUR SHOTS/VIDEOS	
DOWNLOADING VLC MEDIA PLAYER.....	7
VIEWING VIDEOS ON A COMPUTER.....	9
AS A SEQUENCE.....	9
FRAME-BY-FRAME.....	10
STEP 2: SAVING & ORGANIZING YOUR VIDEOS INTO FOLDERS	
SAVING VIDEOS TO YOUR MAC DESKTOP.....	10
DELETING VIDEOS FROM THE SHOTKAM - MAC.....	11
SAVING VIDEOS TO YOUR WINDOWS COMPUTER.....	11
DELETING VIDEOS FROM THE SHOTKAM - PC.....	11
STEP 3: SETTING VLC MEDIA PLAYER AS DEFAULT.....	12
STEP 4: CONVERTING VIDEOS TO MP4 FORMAT.....	12
STEP 5: EJECTING THE SHOTKAM.....	12
TARGET SETTINGS.....	13
RECORDING TIME SPECS.....	13
SHOTKAM SPECS.....	13
TROUBLESHOOTING.....	14

## INITIAL SET-UP: PRE-SHOOTING

### STEP 1 – MOUNT YOUR SHOTKAM

#### ENSURE YOUR GUN IS EMPTY

- A. Lay gun on its side on a flat surface, with the barrel end hanging off the edge (a table or countertop is best).
- B. Remove the 12G bracket that comes attached to your ShotKam using the provided Allen key. There is a spare Allen key in your spare parts bag if needed.
- C. With the USB connector port facing up and closest to the barrel, place brackets on the ShotKam, **ensuring that the rubber ridge of the pad aligns with the indentation in the ShotKam.**
  - \* Always mount the ShotKam 3 to 10 inches from the muzzle end of the barrel (NOT on barrel porting holes).
- D. Using the Allen key, tighten the brackets around the barrel, alternating between screws to ensure correct and even placement, but not yet tightening completely.
- E. Ensure that the camera is directly under the barrel and finish tightening the screws - DO NOT OVER-TIGHTEN.

### STEP 2 - DOWNLOAD THE “SHOTKAMPRO” APP

#### PHONE/IPAD/TABLET ONLY

Available in both the App Store (iOS) and Google Play Store (Android).



**\*The app is NOT for use on a computer. Use VLC Media Player to view the videos (see page 7).**

- A. In the Apple App Store or Android Google Play, search apps for “ShotkamPro” (one word) and download the **free** app.

Do not open the app yet.



#### INITIATE THE BUILT-IN WI-FI

\*The ShotKam is equipped with its own Wi-Fi; it is a direct connection between your phone/iPad/tablet and the ShotKam. **You do not need cellular data, a hotspot, bluetooth, or to be in range of another network/internet source.**

- B. Start with your ShotKam OFF, then turn ON the Wi-Fi by pressing and holding the power button for 3+ seconds. Both orange LED lights should come on; wait about 10 seconds until 1 orange LED stops flashing. Once it stops, the other LED will turn green. You are now in Wi-Fi mode. The ShotKam itself has Wi-Fi, so you do not need any other Wi-Fi source.

- C. Going back to your phone/iPad/tablet, ensure the Wi-Fi is turned ON and go to the device’s settings (Connections > Wi-Fi) and select “Wi-Fi.”



- D. A list of available networks will appear, select “SHOTKAM.” If you do not see this network, then refresh your list and tap on “SHOTKAM” to connect. Once connected, you may see “Security Recommendation” or “Connected, No Internet.” These are normal messages and your ShotKam Wi-Fi is connected. The Wi-Fi is a direct connection.

- E. Once you are connected to this network, exit your device’s Wi-Fi screen by pressing its “Home” button; now open the ShotKamPro app.

NOTE: If your app is not opening, check that your device is still connected to the ShotKam Wi-Fi network. If the app is still not opening after this, charge the ShotKam for 2 hours and try again.

### STEP 3 - ADJUST THE SETTINGS



Follow this icon if you are using an iPhone



Follow this icon if you are using an Android

**A.** You can now make any necessary adjustments to your ShotKam settings (i.e. target type, reticle style, wake-up sensitivity etc.). See page 13 for Target Setting Specs and other recommended settings.

i. Press the setting button (gear icon) within the app

ii. Choose your target type, gun type, etc.



Once you have adjusted any settings, you must hit “Back” or “Save” button in the top left corner.



Once you have adjusted any settings, you must hit the back arrow or “Save” button in the top left corner.



**B.** Next you will need to align the reticle; continue below.

#### ALIGN THE RETICLE (POINT-OF-AIM INDICATOR)

##### ENSURE YOUR GUN IS EMPTY

\*The reticle is the red dot or crosshair seen in our videos. This is a patented reticle alignment system available only through ShotKam.

**A.** Place your gun on a table and point it at a stationary target about 10-30 yards away; align the bead of the gun to the center of the target. We provide an orange target sticker, but you can use any target (e.g. the corner of a roof, tree branch etc.).

**B.** Put your ShotKam into Wi-Fi mode by pressing and holding the power button for 3+ seconds. Both orange LED lights should come on; wait about 10 seconds until 1 orange LED stops flashing. Once it stops, the other LED should turn green. You are now in Wi-Fi mode.

**C.** Go to your smartphone and connect to the “ShotKam” Wi-Fi network. See step 2C – 2E for instructions on connecting to the ShotKam Wi-Fi network.

**D.** Open the ShotKamPro app. See step 2 if you have not downloaded it, or are having trouble connecting the app to your ShotKam.

**E.** You will now see the reticle in the center of your screen. If not, your ShotKam may have gone into sleep mode - simply press the power button once to waken it, or bump it. The reticle will now appear.

**F.** To align the reticle, tap on the orange crosshair icon (bottom right).

**G.** Use the arrows to center the reticle on the target. You can hold or tap arrows; allow a few seconds for Wi-Fi delay.

**H.** Once the reticle is centered on the target, hit the orange back arrow or “Save” button on the top left corner of your screen to save the reticle alignment settings.



**I.** Exit the app, then turn off the ShotKam (one press of the power button, or two if it is in sleep mode).

\*REMEMBER TO CHARGE YOUR BATTERY PRIOR TO SHOOTING - APPROX. 2 HOURS THE NIGHT BEFORE OR MORNING OF (CHARGING OVERNIGHT WILL NOT HARM THE BATTERY OR CAMERA).

## RECOMMENDED: ALIGNING TO POINT-OF-AIM (POA) VS. POINT-OF-IMPACT (POI)

We suggest that the reticle is aligned to the **POA** instead of your POI. Instructors like Gil Ash, Harlan Campbell and George Digweed all set up the reticle to the gun's POA. Aligning the reticle to the POA will allow you to train your "subconscious brain" on where to put the muzzle. Notable exception: Trap shooters may want to align to the POI when testing chokes and cartridge performance.

### RETICLE STYLES:

 Red Dot Icon - default (for most shooting disciplines)

 Orange Crosshair Icon - ideal for trap and/or detecting a canted (tilted) mount

## DOWNLOAD A TEST VIDEO

IMPORTANT NOTE: When videos are watched through the **ShotKamPro app**, they are **NOT SAVED** to the device. They are large files that would consume the limited storage space; they are for viewing purposes while on the field. To observe them more closely, they will need to be watched on a computer. The app does NOT have sound and cannot go frame-by-frame.

- A. Press the record icon (red camera) once to start recording. Wait a few seconds for it to record video.
- B. Once a few seconds of recording are complete, press the red camera/record icon once more to stop recording.
- C. Hit the play icon (blue arrow) once.
- D. Your video is here. Press the "download" icon (downward arrow) on the far right and wait for it to complete the download.
- E. Now press the play button to watch the video that you just recorded. Downloading the videos does NOT store them on your device; they will need downloading again if the app is closed. They will, however, still be on the memory card when you plug it into your computer. If you delete videos within the app, then they will be permanently gone.
- F. Hit the back arrow < in the top left of the screen to return to main page.  
Once you exit the app, the videos will still appear in the app, but you will have to "download" them again to view them.

## HUNTING

First, change the target type to "Flying Birds" or "Ground Game" (see page 4 for ShotKamPro app instructions).

When standing with a loaded gun in the field, the ShotKam will need woken up before shooting. Waken the camera by bumping the fore-end or stock of the gun. Do this when you see a bird approaching. If a shot is taken within 60 seconds of wakening the ShotKam, the video will be saved. If not, the camera will go back into sleep mode.

We suggest you practice wakening your ShotKam a few times at home:

- A. With an **unloaded gun**, close the action and allow the camera to go into sleep mode (approximately 60 seconds).  
(sleep mode = blinking green LED)
- B. Imagine a bird flying in and bump the fore-end or stock of the gun to waken the ShotKam.  
(ready = solid green LED)

NOTE: Once the gun has been bumped to waken the ShotKam (solid green LED), it will stay awake for 60 seconds. If a shot is taken within the 60 seconds, then it will be saved (blue LED). If not, the camera will go back into sleep mode to conserve battery power. Only the recoil will trigger the blue LED.

## STEP 4 – CHARGING/BATTERY

The ShotKam has an internal battery which is rechargeable via the USB port. This battery cannot be accessed directly. The life-expectancy is 3 years and a battery replacement costs \$40.

Battery life in **normal shooting mode**, from fully charged, is:

Clay Shooting: 4 - 5 hours

Hunting: 4 - 6 hours (produces longer videos)

Battery life in **Wi-Fi mode** is typically 1 hour. The Wi-Fi mode is for adjusting the ShotKam's settings and for “in-the-field” shot-analysis of problematic targets.

### CHARGE THE BATTERY

Normal charging is via USB port to computer. Our USB cable will convert the correct voltage, so it can be plugged into any computer or wall adapter internationally.

**A.** Remove the rear cap by twisting it to the left. Ensure the ShotKam is OFF (one press of the power button, or two if it's in sleep mode).

**B.** Use the provided USB cable and place the smaller end into the port of the camera, ensuring the direction of the plug is matched to the direction of the camera port (longer end on top, shorter end on bottom).

**\*IT IS IMPORTANT NOT TO FORCE THE CABLE PLUG INTO THE USB PORT OF THE CAMERA.** Please take care to correctly align it before inserting.

**C.** Plug the USB port into your computer or the provided wall adapter (flashing red LED = charging). A car adapter with a USB port will also work.

**D.** Allow for approximately 2 hours to fully charge (from empty).  
(solid red LED = fully charged)

NOTE: Charge within 24 hours of the shooting. The battery will NOT be harmed if left on the charger overnight.

**E.** Remove the USB cable and place the rear cap back on by twisting right. Ensure it is firmly in place, but not over-tightened. Remember, this rear cap with the clear membrane, when correctly in place, is what makes the ShotKam weatherproof as it protects the USB port.

### WEATHER AND YOUR BATTERY

The ShotKam is made to operate in temperatures from 32°F-110°F (0°C-43°C).

Extreme cold will shorten your battery life. If you plan to shoot in temperatures below 32°F, then you can extend the battery life by placing handwarmers around the ShotKam while not in use.

## STEP 5 - MEMORY CARD

We use Class 10, 32GB microSD cards. A 32GB card holds approximately 1,000 clay videos.

The microSD card in your ShotKam typically does not need to be removed as you can watch your videos by connecting your camera to your computer via USB cable. Most people who need to remove the SD card are instructors and students. We recommend that each student have his or her own microSD card & adapter. They can each put their own memory card into the ShotKam, shoot, and then take it home to review.

## REMOVING AND INSERTING SD CARD

DO NOT loosen the screw in order to remove the SD card; the latch will rotate open.

- A. Rotate the latch towards the edge, away from the SD card slot.
- B. Gently push the SD card once as if it were a button; this will release the SD card out of the slot so you can grasp it.
- C. Grip the SD card and pull it out.
- D. To view the videos on it, use the provided SD memory card adapter from your spare parts bag.
- E. Insert the microSD card into the adapter and then put it into the SD card slot in your computer. It will be a tight fit - this is normal.
- F. Review the videos and then right-click on "SHOTKAM" and select "Eject." Remove the adapter from your computer, then remove the microSD card from the adapter.
- G. Before inserting the microSD card back into the ShotKam, make sure it is facing the correct direction: **the side with the writing should be facing the latch & screw.**
- H. Once almost completely inserted, push once as if pushing a button. This will click it back into place.
- I. Put the latch back over the SD card slot so it is securely in place.

## STEP 6 - READY TO SHOOT

### CLAY SHOOTING

- A. Turn ON the ShotKam with one click of the button (one green LED)
- B. Load the gun and close the action (LED will turn solid green = ready)
- C. Shoot within 20 seconds of closing the action (blue LED will come on **after** the recoil)
- D. Turn OFF at the end of the day (may require pressing the power button twice if in sleep mode)

NOTE: Do not shoot when in Wi-Fi mode - the ShotKam can only record at half the frame-rate when in this mode (60fps instead of 120fps).

### HUNTING

See the hunting section on page 5.

## INITIAL SET-UP: POST-SHOOTING



Follow this icon if you are using a Mac



Follow this icon if you are using a Windows PC

## STEP 1 -WATCH YOUR SHOTS/VIDEOS ON A COMPUTER

VIDEO TUTORIALS AVAILABLE AT [SHOTKAM.COM/SUPPORT](http://SHOTKAM.COM/SUPPORT)

### DOWNLOAD VLC MEDIA PLAYER

The ShotKam videos can only be viewed in VLC Media Player because the shots are AVI files, not MP4 files that are played in Quicktime/Windows Media Player/iPhoto. To download VLC Media Player, follow the steps below:



A. Plug the ShotKam into your computer using the provided USB cable.

> Please take care to correctly align it before inserting.



B. Once connected, open Finder from the Dock.



C. Scroll down the left-hand column and select "SHOTKAM" under "Devices."

You will now see a list of files that come on the ShotKam's SD card:

> *VLC Media Player* - A link to the latest VLC Media Player download.

> *shtkmcfg.ini* - This is the configuration file for the setting specifications. **Do not edit this file.**

> *MISC* - This is the configuration file for the Wi-Fi. **Do not edit.**

> *ShotKam Software* - This is the program where users can customize the ShotKam settings using a computer. The ShotKamPro app is quicker and easier.

> *ShotKam Manual* - A PDF format of the ShotKam manual.

> *Java* - A link to the latest Java Download. ONLY needed if using the ShotKam Software to change the settings on a computer.

> *ShotKam Support* - A link to our website's Support page.

D. Click open the *VLC Media Player.html* file.

E. This will open the VLC Media Player website ([videolan.org](http://videolan.org)) where you can click the large blue or yellow icon "Download VLC."

F. Once the download is complete, a downward arrow will appear in the top right corner of your browser (if using Safari). Click the arrow, then double click on the newly downloaded VLC software (Ex: 2.2.4).

G. A new window will pop-up with a series of windows:

> "Welcome to the VLC Media Player Setup Wizard," select **NEXT**.

> "License Agreement," read and select **NEXT**.

> "Choose Components," leave as-is and select **NEXT**.

> "Choose Install Location," choose where you want to save the file and then hit **INSTALL**.

> "VLC is an application downloaded from the internet. Are you sure you want to open it?" Click **OPEN**.

H. Once the program is done installing, you will see "Completing the VLC Media Player Setup Wizard." Ensure the box is checked for "Run VLC media player" and then hit **FINISH**.



B. Once connected, File Explorer should open automatically.



> If File Explorer does not automatically open:

i. Ensure each end of the cable is securely and fully inserted into the correct ports. A red LED will start flashing; if not, do a hard reset (page 14).

ii. If it still does not open, click open the yellow folder icon on the bottom left corner of your screen and select "File Explorer".

C. Scroll down the left hand column and select "SHOTKAM."

You will now see a list of files that come on the ShotKam's SD card:

> *VLC Media Player* - A link to the latest VLC Media Player download.

> *shtkmcfg.ini* - This is the configuration file for the setting specifications. **Do not edit this file.**

> *MISC* - This is the configuration file for the Wi-Fi. **Do not edit.**

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> *ShotKam Manual* - A PDF format of the ShotKam manual.

> *Java* - A link to the latest Java Download. ONLY needed if using the ShotKam Software to change the settings on a computer.

> *ShotKam Support* - A link to our website's Support Page.

D. Double-click the *VLC Media Player.html* file to open it.

E. This will open the VLC Media Player website ([videolan.org](http://videolan.org)) where you can click the large blue or yellow icon "Download VLC."

F. A progress bar will pop-up at the bottom of the screen; wait, and when the download is complete:

>**Chrome browser:** The cone will appear on the bottom left of your screen, click "VLC - 2.2.4" and then "Run."

>**Explorer browser:** Click "Save" and then "Run"

>**Firefox browser:** Select "Save File," then an arrow will appear in the top right corner once the download is complete. Click the arrow and select the top file "VLC - 2.2.4"

If it asks you if you would like to allow VLC media player to make changes to your computer, select "YES."

Continue when the VLC download is complete.



(continued)

I. The next pop-up is the “Privacy and Network Access Policy.” Ensure both boxes at the bottom are checked and hit **CONTINUE**.

J. The download should automatically create a shortcut of the VLC icon (orange cone icon) on your desktop.

> If not, hold down the Ctrl key and simultaneously click on the orange cone icon on the dock and select “Add to Dock.”

**VLC Media Player is the only program required in order to view your shots.** Continue below to learn how to watch them.



(continued)

G. A new window will pop-up with a series of windows:

> “Welcome to the VLC Media Player Setup Wizard,” select **NEXT**.

> “License Agreement,” read and select **NEXT**.

> “Choose Components,” leave as-is and select **NEXT**

H. Once the program is done installing, you will see “Completing the VLC Media Player Setup Wizard.” Ensure “Run VLC Media Player” is checked and then hit **FINISH**.

I. The download should automatically create a shortcut of the VLC orange cone icon on your desktop.

> For quick access, right-click on the orange cone icon and select “Pin to taskbar.”

**VLC Media Player is the only program required in order to view your shots.** Continue below to learn how to watch them.

## VIEW YOUR VIDEOS



A. Plug in your ShotKam and close iPhoto.

B. Open VLC Media Player (the orange cone icon on your desktop or Dock).

C. Click “File” from the top menu and select “Open File.”  
> You should see the Apple icon in the top left, then “VLC,” then “File” will be to the right of that.

This is ALWAYS the way to open a video. Do NOT open a video from the Media Playlist. **You must go to “File” > “Open File” every time.**

D. Scroll down the left-hand column and select “SHOTKAM” under Devices by clicking once.

E. Double click “DCIM” and then “100\_KAM.”

F. This will now be a list of your shots/videos.

G. You can view a shot individually by double-clicking the video that you would like to see, or you can watch it as a sequence (see below).

NOTE: If you try to view a shot (“SHOT0001”) from within the Playlist, you will get an error message. You must access it as stated in step C above.

### To view the videos as a sequence:

i. Make sure you are active in the VLC window by clicking once in any blank white space.

ii. You can either press and hold (Ctrl + A), or drag your mouse over all of the shots; this will highlight all videos.



A. Plug in your ShotKam.

B. Open VLC Media Player (the orange cone icon on your desktop).

C. Click “Media” from the top menu and select “Open File.”

D. Scroll down the left-hand column and select “SHOTKAM” by clicking once.

E. Double click “DCIM” and then “100\_KAM.”

F. This will now be a list of your saved shots/videos.

G. You can view a shot individually by double-clicking the video you would like to see, or watch it as a sequence (see below).

Another way to highlight all of the videos is to click on the first shot once to highlight it, hold down the “shift” key, and click once on the last shot. All shots will now be highlighted in blue.

iii. Now select the “Open” button from the lower right corner of the window.

### To view the videos frame-by-frame:

We suggest that you watch the videos a few times through at normal speed before going frame-by-frame.

- i. Start the video by pressing the play button.
- ii. Press the “E” on your keyboard OR click on “View” from the top menu and select “Advanced Controls,” then click the red downward facing arrow icon on the bottom left of the window.
- iii. Use the spacebar to pause/play the video.

NOTE: There is no audio while going frame-by-frame, nor can you backwards frame-by-frame.

## STEP 2 - SAVE & ORGANIZE YOUR VIDEOS

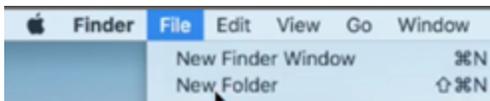
It is important to organize your videos into folders so that each new day of shooting begins with “SHOT0001.” This will make “SHOT0001” the first shot of the day and “SHOT0002” the second shot of the day, and so forth.

\*It is a good idea to save your videos into a desktop folder and delete them from the ShotKam *as you go*. This will allow you to view the videos anytime without requiring the ShotKam to be plugged in.



### SAVING THE VIDEOS TO YOUR MAC DESKTOP (HARD DRIVE)

1. With the ShotKam connected to your computer, click open Finder on the bottom left corner of your computer screen (a.k.a. your “dock”).
2. From the left-hand column of Finder, select “SHOTKAM” under “Devices.”
3. Double-click the folder “DCIM” to open it, and then the same for “100\_KAM.”
4. Click “File” from the top menu of your computer screen, then select “New Folder.”



5. Title the folder with the date the shots were taken (ex: “01.01.2017”) and hit Enter. You are now ready to transfer files into this Folder.
6. Highlight all the shots that you would like to move (Ex: SHOT0001, SHOT0002, etc). To do so, click and hold the mouse, then drag it over every shot until each one is highlighted blue.
7. Click and hold anywhere in the highlighted blue area and drag the mouse over the newly created folder, then release. They will now be inside the dated folder.
8. Hold the Ctrl key down, click on the dated folder, and then select “Copy.”
9. Close Finder.
10. Simultaneously hold down the Ctrl key while clicking once on your desktop and then select “Paste.”

The folder is now saved to the Mac’s hard drive (a.k.a. its “permanent memory”), so you can delete the files from your ShotKam’s memory card. To access these videos, open VLC Media Player, click “File” from the top menu, select “Open File” and then find, “Desktop.” Your dated folder will be here.



## DELETING VIDEOS FROM THE SHOTKAM

1. Open Finder, then select "SHOTKAM" under "Devices."
2. Double-click the folder "DCIM" to open it and then the same for "100\_KAM."
3. Simultaneously hold the "Ctrl" key on the keyboard and click the dated folder ("01.01.2017") once.
4. Select "Move to Trash." Do not stop here, the videos are still not deleted.
5. Find the trash icon in the lower right-hand corner of your Mac. Simultaneously hold down the "Ctrl" button and click on the trash icon.
6. Select "Empty Trash" from the menu.



If you want to ensure your videos are saved on your computer before deleting them from your ShotKam, properly EJECT your ShotKam (see page 12) and then open your dated Desktop files. This is where your videos will be saved.

**Always properly EJECT your ShotKam before disconnecting it from your computer (page 12).**



## SAVING THE VIDEOS TO YOUR WINDOWS COMPUTER (HARD DRIVE)

1. With the ShotKam connected to your computer, click open File Explorer from the bottom taskbar or by right-clicking the Window's button in the bottom left corner and selecting "File Explorer."
2. Open "SHOTKAM" from the left column, then "DCIM," then "100\_KAM" — when you hover over the icon it will say "New Folder." OR press and hold (Ctrl + Shift + N).
3. Title the folder with the date the shots were taken (ex: "01.01.2017") and hit Enter.



Now you will need to copy your ShotKam videos to this new folder:

4. Select all your shots by dragging the mouse over the shots, or by holding the "Ctrl" key while single-clicking each video.
5. Click and hold in the blue highlighted area, then drag the mouse over to the new folder and release.
6. Right click on the dated folder and select "Copy" from the menu OR (Ctrl + C).
7. Close File Explorer, then right click on your Desktop and select "Paste" OR (Ctrl + V).

Your videos are now saved on both your computer's hard drive (a.k.a. its "permanent memory") and your ShotKam's memory card. **We recommend that you now delete them from your ShotKam** to start afresh with "SHOT0001" the next time you go shooting.

If you want to ensure your videos are saved on your computer before deleting them from your ShotKam, properly EJECT your ShotKam (see page 12) and then open the shots from within VLC Media Player. To access these videos, open VLC Media Player, click "Media" from the top menu, select "Open File" and find "Desktop." Your dated folder will be here.



## DELETING VIDEOS FROM THE SHOTKAM

1. With the ShotKam connected to your computer, click open File Explorer from the bottom taskbar or by right-clicking the Window's button in the bottom left corner and selecting "File Explorer."
2. Open "SHOTKAM" from the left column by double-clicking it.
2. Delete the folder titled "DCIM." This will permanently delete all videos from the ShotKam, but NOT from your computer's hard drive. The "DCIM" folder will automatically recreate itself the next time you turn the ShotKam ON.



**Always properly EJECT your ShotKam before disconnecting it from your computer (step 5, page 12).**

### STEP 3 - SET VLC AS DEFAULT MEDIA PLAYER



A. With the ShotKam plugged into your computer, open Finder.



B. Under “Devices” open “SHOTKAM” then DCIM, then 100\_KAM.

3. You should now see your shots with the QuickTime icon on each of them.

C. Right-click one of those videos.

> To right-click on a Mac trackpad: press and hold the Control button and simultaneously click the mousepad.

D. Select “Get Info.”

E. Find the section titled “Open with:” and click the small arrow next to it to drop down the menu.

F. You will see two arrows to the right of “QuickTime Player,” click them and scroll down to select “VLC.”

G. Now hit “Change all.”

H. A pop-up will appear, select “Continue.”

I. All your ShotKam videos (AVI files) from now on will open in VLC Media Player instead of QuickTime/iPhoto.



A. With your ShotKam plugged into your computer, open File Explorer.



B. Now open the DCIM folder on your ShotKam.

C. You should now see your videos with the QuickTime or Movies/TV Player icon on each of them.

D. Right-click one of those videos.

E. Select “Properties” (at the bottom).

F. Next to “Open with:” click the “Change” button.

G. Select “VLC Media Player” with the orange cone.

H. Hit “Okay.”

I. Hit “OK” again.

J. All your ShotKam videos (AVI files) from now on will open in VLC Media Player instead of QuickTime or Movies/TV Player.

### STEP 4 - CONVERT VIDEOS (AVI FORMAT) TO MP4 FORMAT

NOTE: This is not a necessary step, but it is an option if you want to share or edit the videos.

In order to convert your ShotKam videos, you will need to download a conversion software or application. This will allow you to post videos on social media or edit them in video editing softwares. We recommend the following:

#### MAC

iSkySoft - FREE trial

#### WINDOWS

Windows Media Player – FREE

PowerDirector for making movies - \$59.99 (what we use for our website)

Others available: Movavi Video Converter, Free MP4 Converter, and many more which you can find through a Google search.

### STEP 5 - PROPERLY EJECT THE SHOTKAM

To prevent file corruption and other damage to your ShotKam’s electronics board, it is important to properly eject it from the computer each time before unplugging it.



A. Open Finder (if not already open).



B. Under “Devices” in the left-hand column, you will see “SHOTKAM” with an eject icon next to it. Click to eject.



> If you do not see the eject icon, then hold the “Ctrl” key and click once on “SHOTKAM.” Select “Eject.”

C. Once “Eject” has been selected, it is safe to unplug the USB cable.



A. Open File Explorer window (if not already open).



> If your ShotKam is connected to your computer, then the File Explorer window will already be open unless you have closed out of it.

B. Right-click “SHOTKAM” on the left-hand column and select “Eject.”

C. Once “Eject” has been selected, it is safe to unplug the USB cable.

## TARGET SETTINGS

### CLAYS:

- Sleep Delay: Initiates after 20 seconds of inactivity. Open & close the action to waken the ShotKam.
- "Normal" Recording Time: 2 seconds pre-shot, 1 second post-shot; playback speed is 1/4 speed.
- Records as one video if two shots taken within 6 seconds of each other (true + report pairs).

### FLYING BIRDS:

- Sleep Delay: Initiates after 60 seconds of inactivity. Bump the gun to waken the ShotKam.
- "Normal" Recording Time: 3 seconds pre-shot, 3 seconds post-shot; playback speed is 1/4 speed.
- Records as a single video if there are multiple shots fired within 9 seconds of each other. Follow the bird down to the ground for the best video.

### GROUND GAME:

- Sleep Delay: Initiates after 300 seconds of inactivity. Bump the gun to waken the ShotKam, or press the power button once to turn it ON.
- "Normal" Recording Time: 18 seconds pre-shot, 20 seconds post-shot
- Records as a single video if there are multiple shots fired within 10 seconds of each other.

### PAPER TARGETS:

- Sleep Delay: Initiates after 60 seconds of inactivity.
- "Normal" Recording Time: 2 seconds pre-shot, 1 second post-shot
- Records as a single video if there are multiple shots fired within 8 seconds of each other.

## RECORDING TIME SPECIFICATIONS:

“SHORT” recording time = HALF of the normal recording time

“NORMAL” recording time:

Clays = 2 seconds pre-shot, 1 seconds post-shot

Flying Birds = 3 seconds pre-shot, 3 seconds post-shot

Ground Game = 18 seconds pre-shot, 20 seconds post-shot

Paper Targets = 2 seconds pre-shot, 1 seconds post-shot

“LONG” recording time = TWICE the normal recording time

These are adjustable settings within the app (see page 4).

## SHOTKAM SPECIFICATIONS

### WEIGHT

5 ½ oz (including brackets)

### DIMENSIONS

1 ¼ inches in diameter

4 ½ inches in length

## **MATERIAL**

Housing material and mounting brackets are aircraft-grade aluminum.

## **RECORDING**

The ShotKam has an accelerometer which registers forces, and tells it when to record. When the action of the gun is closed, the ShotKam starts to record a video (through a memory buffer). Once the ShotKam feels the recoil of the gun, then it saves the video from the memory buffer onto the SD card (memory card). It only saves the critical time before, during, and after the shot.

## **MOUNTING SYSTEMS**

Comes with a 12G bracket, but we also have 20G, 28G, .410, 12G side-by-side brackets available.

## **MEMORY**

A Kingston 32GB microSD card is included (enough for 1,000 clay videos or about 500 hunting videos). All SD cards must be Class 10.

## **LASER**

Class II laser device. The laser is designed as a training tool to aid shooters with their mounting technique while indoors (with an unloaded gun). Please see our Laser Tutorial for step-by-step instructions.

NOTE: The laser is NOT the reticle (red dot in the videos). It cannot be adjusted.

## **TROUBLESHOOTING**

### **HARD RESET**

A hard reset should be done when:

- The ShotKam won't shut off
- The ShotKam won't turn on
- The red LED does not show when plugged in
- The green or blue LED won't turn off

To complete a hard reset (this will NOT erase any of your videos):

1. Unscrew the rear cap.
2. Straighten out one end of a paper clip.
3. Carefully insert the paperclip end into the small hole between the SD card slot and one of the LED lights.
4. Gently push the button and then remove the paperclip. You will feel resistance, but don't press too hard.
5. Turn the ShotKam ON with a push of the power button.
6. Screw the rear cap back on by twisting to the right. Ensure it is firmly in place, but not over-tightened.

### **4 BLINKING LED LIGHTS**

First try replacing your microSD card with a brand new one. Any new microSD card will work as long as there is no other software on it.

If the new SD card does not clear up the flashing LEDs, please contact us at: [support@shotkam.com](mailto:support@shotkam.com)

### **GREEN + BLUE LED LIGHTS**

SD card is full. Delete shots (page 11). For Macs only: empty trash bin (see page 11).

## **BATTERY NOT LASTING**

This could be due to extreme temperatures (see page 6).

Perform this battery test at home:

1. Let the ShotKam charge via USB cable to computer for 2 hours
2. Unplug the ShotKam and put it into Wi-Fi Mode (page 3)
3. Time how long it lasts before it dies. The standard battery life is 55 - 60 minutes in Wi-Fi mode. Contact support@shotkam.com for any questions.

## **THE RETICLE ALIGNMENT CHANGE WAS NOT SAVED**

In order to save your reticle alignment, you must hit the orange back arrow in the ShotKamPro app.

## **MISSED RECORDINGS**

In order for a shot to be saved, it must be taken within 20 seconds of closing the action. If the unit goes into sleep mode (slow flashing green LED), then it will not record a video until it is solid green.

## **CANNOT VIEW SHOT PATTERN**

The ShotKam videos can be slowed down to see the shot pattern, but you will not be able to see it well against a tree background. This is not a big concern, however, as seeing the pattern is typically not very informative. The best way to study the ShotKam videos is by studying the 10 – 15 pictures before the shot was taken. The ShotKam takes 120 pictures per second, but studying the 15 seconds before the shot is where you will be able to see why you missed (or broke) it.

## **WHY ARE MY VIDEOS SLANTED?**

Check that the ShotKam is mounted directly under your barrel with the rubber pads of the bracket fitting into the grooves of the ShotKam tube. If they are, then the slant is due to the gun being canted (a tilted mount).

## **FLASHLIGHT DRILL**

### **ENSURE YOUR GUN IS EMPTY**

The flashlight drill uses a laser to practice a smooth move:

1. Start with the ShotKam off, then turn on its laser by holding the power button 15-20 seconds.

NOTE: The laser is NOT related to the reticle or the gun's point-of-aim; **it cannot be adjusted**. It is typically a few inches off, but that is not a problem for the purpose of the drill.

2. Practice a smooth move by pointing the laser into a corner of the room and steadily moving the spot along the edge of the room until the gun is mounted to your cheek. Avoid what is called the "teeter- totter."

## **MY COMPUTER IS NOT RECOGNIZING MY SHOTKAM WHEN I PLUG IT INTO THE USB PORT**

The most common reason for this is that the ShotKam was not ejected properly.

First, try plugging the ShotKam into a different USB port or a different computer. Then properly eject it (see page 12).

If that does not work, remove the microSD card from the ShotKam, place in the adapter (provided in the spare parts bag), and then insert directly into your computer. Now properly eject the ShotKam and place the microSD card back into the ShotKam.

PLEASE SEE OTHER FAQ'S ON OUR WEBSITE  
[www.shotkam.com/support](http://www.shotkam.com/support)

## Cautions and Warranty

Read all of the gun or bow manufacturer's safety information and safety instructions before handling the gun or bow, installing the ShotKam, or using the ShotKam on a gun or bow. Read and apply all of their instructions before using the ShotKam camera to avoid injury.

**WARNING: Failure to follow these safety instructions could result in fire, electric shock, or other injury or damage.**

**Lithium-Ion Battery handling:** The lithium-ion battery inside the ShotKam may present a hazard if mistreated. Do not disassemble, crush, or puncture the lithium-ion battery. Do not remove the battery. Keep the battery dry by using the waterproof membrane seal when the camera may be exposed to water. Do not expose the ShotKam to high temperatures (over 110F). To charge, only use the ShotKam USB Cable with a high-power USB port on a computer or other device which is compliant with the USB standards, or the ShotKam wall charger.

**Disposal information:** Do not dispose of either the ShotKam Camera or lithium-ion battery in a fire. Dispose of batteries in accordance with local laws and regulations.

**Correct Disposal of this Product:** This product should not be disposed of with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use proper return and collection systems or contact us at [www.ShotKam.com](http://www.ShotKam.com) and we can take this product for environmentally safe recycling.

**FCC Information:** This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**Warning: Changes or modifications to this unit not expressly approved by party responsible for compliance could void the user's authority to operate the equipment.**

**Note:** *This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with instructions, it may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of these measures:*

- Reorient or relocate the receiving antenna.
- Increase separation between equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult an experienced radio/TV technician for help.

**Industry Canada:** This Class B device meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

**Laser notice:** ShotKam is a Class II laser device. Laser radiation is emitted when using the laser. Please use caution and do not stare directly into the beam or point at others.

**RoHS:** ShotKam camcorders comply with the European Union's ROHS directive 2002/95/EC and similar regulations that may be adopted by other countries for European Sales.

## ShotKam LLC Return Policy

**Repairing or modifying:** NEVER attempt to repair or modify the ShotKam Camera yourself. Disassembling a ShotKam will cause damage that is NOT covered under the warranty. The ShotKam does not contain any user-replaceable parts, except the MicroSD card.

ShotKam LLC ("Manufacturer") warrants to the original end user ("Purchaser") that for the 1 year ("Warranty Period"), the ShotKam camcorder (excluding any third party software) and accessories ("Product") will be free from defects in materials and workmanship when properly installed and used for its intended purpose and in its intended operating environment.

**This warranty does NOT apply to any Product that has been either:**

**(a) Disassembled e.g front lens or rear lock ring removed**

**(b) Altered, repaired or modified**

**(c) Damaged or destroyed by accidents or similar events or by any intentional, reckless or negligent acts or omissions of any party.**

In the event of a defect, return the Product to the Manufacturer, but only after instructed to do so by Manufacturer. Purchaser shall ship and bear the cost of shipping the Product to Manufacturer and Manufacturer shall bear the cost of shipping the Product back to Purchaser after the completion of service under this limited warranty. Purchaser's exclusive remedy and Manufacturer's entire liability under this warranty will be for Manufacturer at its option to repair or replace the Product or refund purchase price less any rebates. Manufacturer does not warrant against loss of any data (including data stored on Product returned to Manufacturer for service), and assumes no liability for such loss. Purchaser assumes all liability, and as such releases Manufacturer from any liability, for any accident, injury, damage, death, loss, illegal activity or any other claim that may occur resulting from or during use of the Product, whether or not such use is foreseeable by Manufacturer.

ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE APPLICABLE EXPRESS WARRANTY. ALL OTHER EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF NON-INFRINGEMENT, ARE DISCLAIMED.

Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to Purchaser. This warranty gives Purchaser specific legal rights, and Purchaser may also have other rights which vary by jurisdiction.

All third-party software provided with the Product is provided "As is". Purchaser assumes the entire risk as to the quality, performance, accuracy and effect of such software, and should it prove defective, Purchaser, and not Manufacturer, assumes the entire cost of all necessary servicing or repair.

TO THE EXTENT NOT PROHIBITED BY LAW, IN NO EVENT WILL MANUFACTURER BE LIABLE FOR ANY LOST DATA, REVENUE OR PROFIT, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF OR RELATED TO THE USE OF OR INABILITY TO USE THE PRODUCT, EVEN IF MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL MANUFACTURER'S LIABILITY EXCEED THE AMOUNT PAID BY PURCHASER FOR THE PRODUCT.

The foregoing limitations will apply even if any warranty or remedy provided under this Agreement fails of its essential purpose. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to Purchaser.

#### **ShotKam LLC Disclaimer**

All purchasers, users, and any or all parties involved or engaging in the use of ShotKam LLC ("ShotKam") products agree to the following:

- ShotKam does not promote or endorse high risk, careless and/or dangerous activities and is not responsible for any injury during use of the ShotKam camera.
- The firearm or bow manufacturer's operating and safety instructions should be followed at all times. ShotKam is not liable for any use or misuse of firearms or bows.
- ShotKam's primary purpose is recording legal activities as defined by local authorities and ShotKam is not liable for any use or misuse.

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