



**Ohio Attorney General's Office  
Bureau of Criminal Investigation  
Investigative Report**



2023-3223

Officer Involved Critical Incident - 807 Alan Page Dr SE, Canton,  
OH 44707

**Investigative Activity:** Video Analysis; Video Review; Amped Five Used  
**Involves:** Zachary Fornash (S), Officer Garrett Marino (S), Canton  
Police Department (O), BCI (O)  
**Activity Date:** 03/21/2024  
**Activity Location:** BCI - 4055 Highlander Parkway, Richfield, OH 44286  
**Authoring Agent:** SAS Charles Moran #67

**Narrative:**

On March 21, 2024, Ohio Bureau of Criminal Investigation (BCI) Special Agent Supervisor (SAS) Chuck Moran (Moran) began analyzing and reviewing a video file relevant to the investigation. SAS Moran used Amped Five software to analyze and review the video file.

The video file was obtained from the Canton Police Department (CPD). The video file was a body-worn camera (BWC) video recording from a BWC worn by CPD Officer Garrett Marino (Marino) during the officer-involved critical incident that occurred on December 5, 2023, involving Officer Marino and a male subject, Zachary Fornash (Fornash).

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## Video Review Process

SAS Moran made a copy of the BWC file from the Special Investigation Unit (SIU) shared drive that was in the Reference Item A folder. The BWC video file was labeled:

00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0

SAS Moran created a working copy folder and placed the copied BWC video from the SIU shared drive into the working copy folder.

SAS Moran used the website <https://md5file.com/calculator> to check the file hashes for the BWC video file in the SIU shared drive and the working copy folder. All of the hashes matched. See the file hash information below for details:

<b>BWC Video File Label</b>	00_0062961462_96_17_c9_20-0062958787_0062960362_0062960385_video0
<b>File Hash (from SIU shared drive)</b>	MD5: 434ce433c7f290d569b9e97af8f2e374 SHA1: 6c4eab67625a59dbb28cfd8b3254718268318d32 SHA256: be9787a9265dd9e2bcda18185451985de2e90f03badad93bcb4242f9ee683a5d SHA512: dda357932d39133c1a78dbf21a441ab4c16f1050989f42486f7ff8f3d4ef6f08a1901684bda67709886afd6b73e85530bacbceb53575c5867bea183fc5657f0c

<b>BWC Video File Label</b>	00_0062961462_96_17_c9_20-0062958787_0062960362_0062960385_video0
<b>File Hash (from working copy)</b>	MD5: 434ce433c7f290d569b9e97af8f2e374 SHA1: 6c4eab67625a59dbb28cfd8b3254718268318d32 SHA256: be9787a9265dd9e2bcda18185451985de2e90f03badad93bcb4242f9ee683a5d SHA512: dda357932d39133c1a78dbf21a441ab4c16f1050989f42486f7ff8f3d4ef6f08a1901684bda67709886afd6b73e85530bacbceb53575c5867bea183fc5657f0c

SAS Moran used Amped Five software for the analysis and review. SAS Moran created an Amped Five project with the working copy of the BWC video file. SAS Moran

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bookmarked images for demonstrative purposes. The bookmarked images were selected based upon the best available visual and audio cues. SAS Moran also created a derivatives folder for any items that were generated by Amped Five.

The original BWC video file should be viewed and evaluated independently of any derivative(s) from this Amped Five software analysis and review.

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## **Additional Factors to Consider When Evaluating Digital Multimedia Evidence (DME)**

Based upon SAS Moran's training and experience, the following factors should be considered when evaluating the available video evidence:

- The speed of this incident is remarkable.
- The speed and complexity of rapidly evolving situation(s) that occur during use-of-force encounters are difficult concepts to comprehend by only watching the video.
- Video and audio recording devices record more information about a particular scene or incident than the person(s) involved in the event can process during the critical incident.
- Video and audio recording devices rarely record an event from the same perspective of the officer(s) or subject(s) involved.
- It captures the action but not the perception, decision-making, focus nor intent of the officer(s).
- Video recordings often miss tactile cues or other actions of a subject. • Video and audio recording devices record within the video and sound capabilities available, and they record objectively.
- Video and audio recordings lack the history, perspective and interest of the people involved.
- The movements, positions, angles, obstacles, lighting, and distance from the incident are also factors that need serious consideration.
- Video recordings are for storage and review.
- Video recordings capture light and create a digital representation of reality (two-dimensional video compared to three-dimensional reality).
- Video and audio recordings are only components of an investigation and should not be the only evidence relied upon.
- All available evidence, statements and other information must be evaluated alongside the video recordings available.

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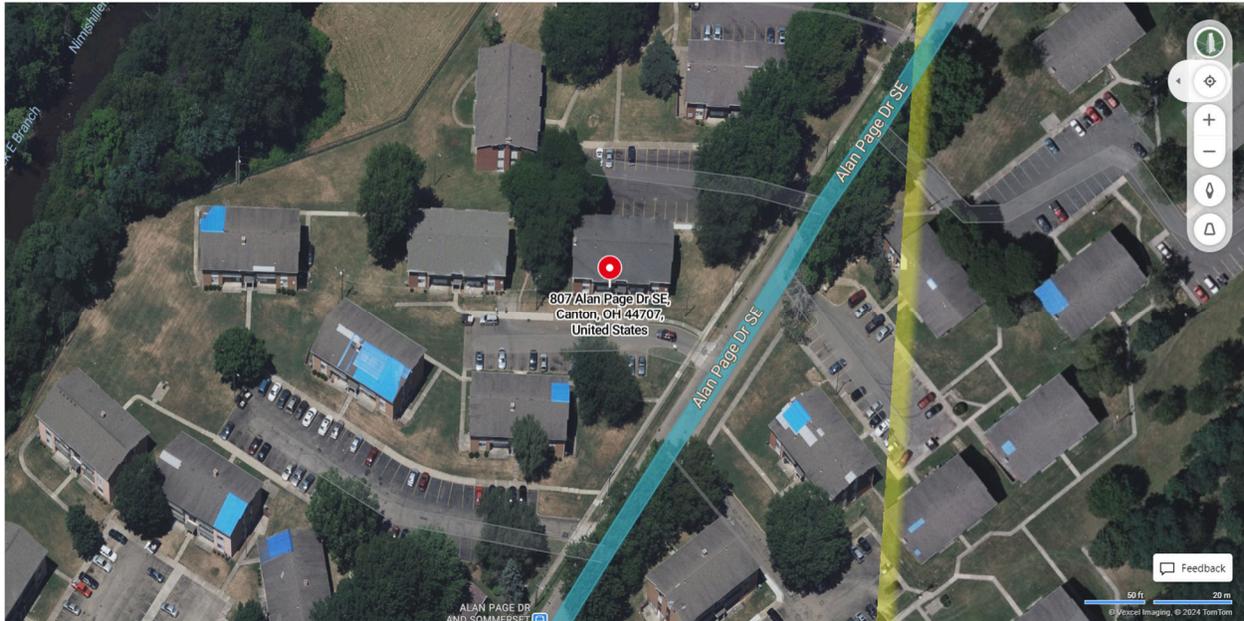


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## Overhead Map Image for Reference

Below is a screen capture of an overhead map from Bing.com/maps. This shows the area of the incident scene. This was provided to assist the review with an understanding of the area. See the image below:



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## Review of CPD Officer Garrett Marino's BWC Video File

SAS Moran analyzed and reviewed CPD Officer Garrett Marino's BWC video file using Amped Five software. The following was noted from the Amped Five software "File Info":

<b>File Name</b>	00_0062961462_96_17_c9_20-0062958787_0062960362_0062960385_video0
<b>Width (pixels)</b>	1920
<b>Height (pixels)</b>	1080
<b>Codec</b>	h264
<b>Fps</b>	29.9700
<b>Length (frames)</b>	16500
<b>Duration (time)</b>	00:09:10:550
<b>SAR (Storage Aspect Ratio)</b>	16:9 (1.778)
<b>SAR (Sample Aspect Ratio)</b>	1:1 (1.000)
<b>DAR (Display Aspect Ratio)</b>	16:9 (1.778)
<b>PAR (Pixel Aspect Ratio)</b>	1:1 (1.000)
<b>Color Range</b>	Full
<b>Total Streams</b>	2
<b>Video Streams</b>	1
<b>Audio Streams</b>	1

## Timing Estimates Process and Documentation

As part of this in-depth video review, SAS Moran created a "Timing and Action Summary" spreadsheet documenting many of the significant events noted during the video review. The time elapsed between frames was documented in the below section labeled, "Video Review of Range Selector Video File."

SAS Moran used the spreadsheet to count the frames between the marked image frames to determine approximately how much time elapsed between certain actions and events. SAS Moran used the formula, =COUNTA(COLUMN LETTER BEGINNING ROW NUMBER:SAME COLUMN LETTER END ROW NUMBER) to calculate the number of frames between marked image frames. SAS Moran multiplied the total number of frames in the columns by 0.03333333 (1/30 of a second) to determine the approximate elapsed time between the marked image frames.

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The time was rounded up or down to the nearest hundredth place to make it easier to comprehend. For example, 23 frames multiplied by 0.03333333 equaled 0.76666667 of a second. This number was rounded to 0.77 of a second.

### Range Selector Filter – Amped Five

SAS Moran performed a cursory review of the BWC video file and determined that the pertinent activity occurred from frame 0 to frame 3800. SAS Moran used the “Range Selector” filter to create an .mp4 video file showing the selected frames. This process was documented in more detail in the Amped Five report. The video was exported and saved to a “Amped Five Derivatives” folder.

### Video Review of Range Selector Video File

SAS Moran placed the video file in Amped Five to analyze it and review it. Any bookmarked images selected were labeled with “AF-RS – Marino, frame #” in the title. The video file was labeled:

00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731

During the review, SAS Moran noted the following:

Frames	0-935
Time	Not calculated
Notes	There was no audio heard during these frames. Officer Marino was in the driver seat of his police cruiser and was driving in the area.

Frames	936
Time	Not calculated
Notes	This was the approximate frame when the audio stream started. Officer Marino was in the driver seat of his police cruiser and was driving in the area.

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Frames	1308
Time	Not calculated
Notes	Officer Marino continued driving his police cruiser. He radioed, "Just ran into the 807 building." A few frames later, Officer Marino appeared to begin to exit his cruiser but then stopped and began driving his cruiser again.

Frames	1684
Time	Not calculated
Notes	Officer Marino continued driving his police cruiser. He radioed, "Give me the air."

Frames	1792
Time	Not calculated
Notes	Officer Marino exited his cruiser and began saying, "Get the fuck on the ground!"

Frames	1931
Time	4.63 seconds elapsed from frame 1792
Notes	Officer Marino was running and he had his pistol in his right hand. He radioed, "Give me the air. He's got a gun."

Frames	2016
Time	2.83 seconds elapsed from frame 1931
Notes	Officer Marino continued running and yelled, "Get on the ground or you're gonna get shot!" Officer Marino had his pistol in his right hand with his right arm extended in front of him. It was likely that Zachary Fornash was observed on the BWC video near the corner of a building with his back toward Officer Marino.

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Frames	2079
Time	2.1 seconds elapsed from frame 2016
Notes	Officer Marino continued running and yelled, "Get the fuck on the ground! You're going to get shot!" Officer Marino had his pistol in his right hand with his right arm extended in front of him. Zachary Fornash was not in the BWC view and moved around the corner of the building.

Frames	2153
Time	2.47 seconds elapsed from frame 2079
Notes	Officer Marino ran around the corner of the building and said, "Get on the ground! Show me your hands!" Officer Marino had his pistol in his right hand with his right arm extended in front of him. Zachary Fornash was running away from Officer Marino.

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Frames	2198
Time	1.5 seconds elapsed from frame 2153
Notes	Officer Marino continued moving toward Zachary Fornash and said, "Show me your hands now! Show me your hands now!" Officer Marino had his pistol extended outward with both hands (shadow on ground). It appeared that Zachary Fornash partially turned to his left to look behind him in the direction of Officer Marino. Zachary Fornash's hands appeared to be near his waist.



*Amped Five Project - 2023-3223-bookmark5-5-2198*

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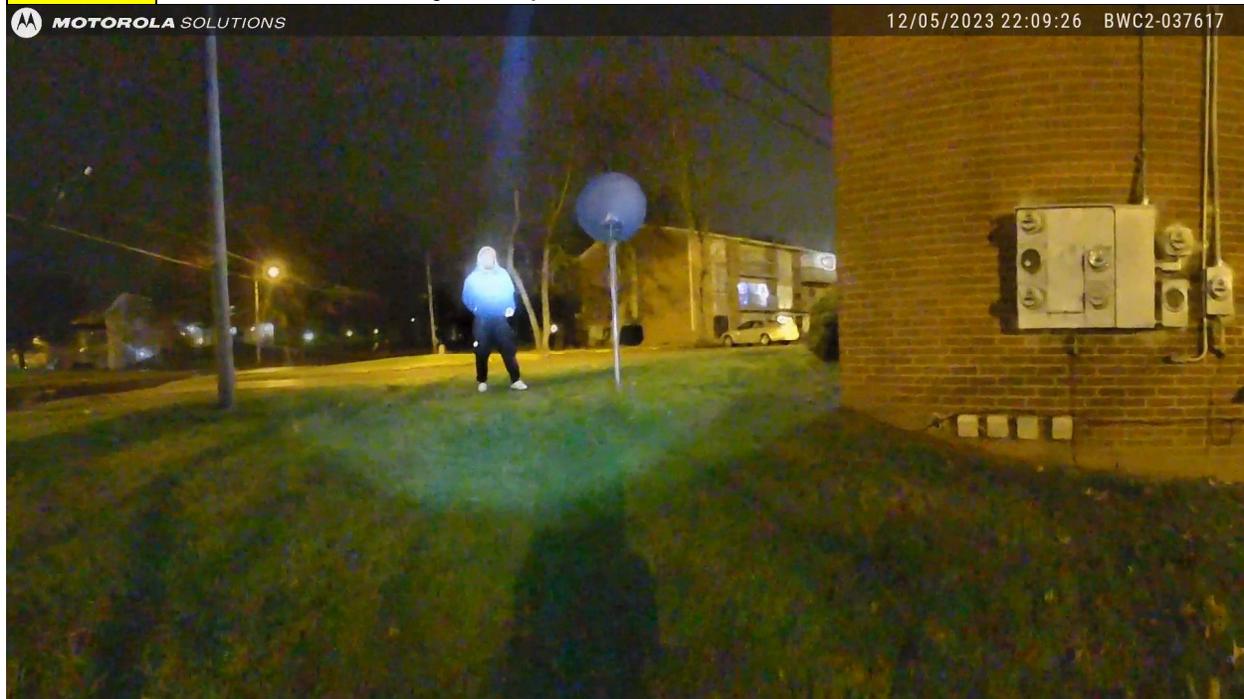


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Frames	2291
Time	3.1 seconds elapsed from frame 2198
Notes	Officer Marino approached Zachary Fornash and said, "Put your hands on your head!" Officer Marino had his pistol extended outward with both hands (shadow on ground). Zachary Fornash was now facing Officer Marino. It appeared that his right hand was concealed in his right front jacket pocket and his left hand was near his left waist/jacket pocket.



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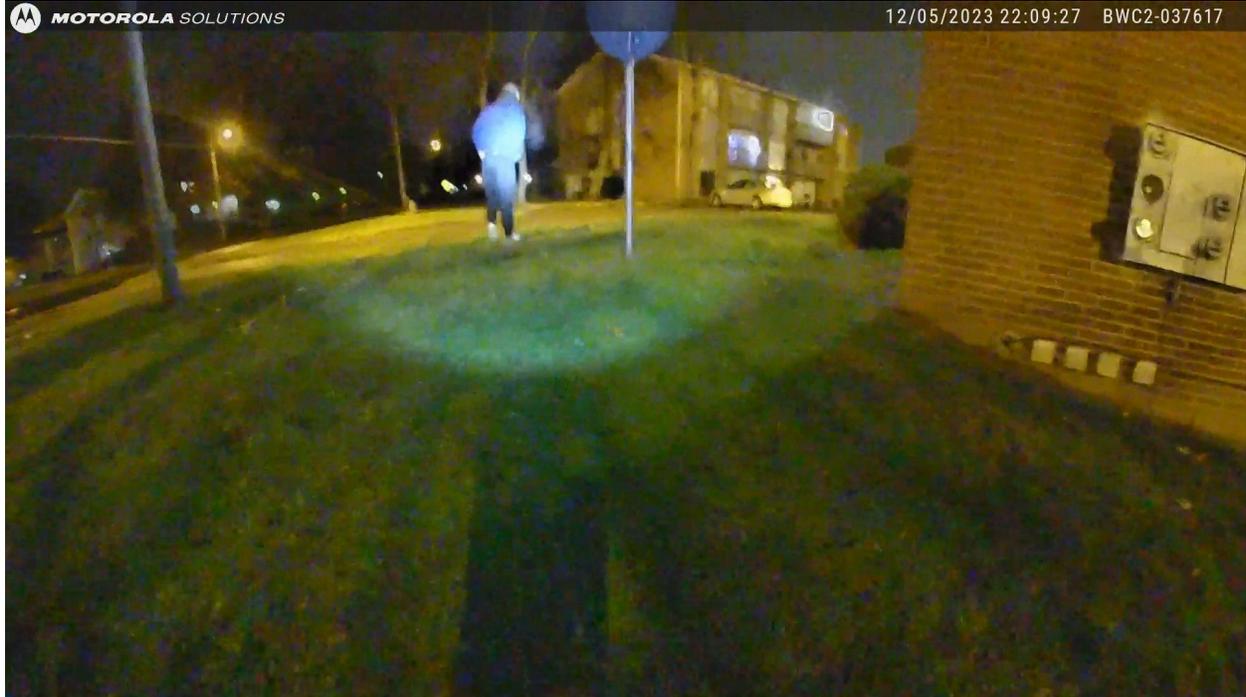


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Frames	2336
Time	1.5 seconds elapsed from frame 2291
Notes	Zachary Fornash turned around to his left and began walking away from Officer Marino. It appeared that his right hand was concealed in his right front jacket pocket and his left hand was near his left waist/jacket pocket. Officer Marino yelled, "Put your fucking hands on your head!"



*Amped Five Project - 2023-3223-bookmark5-5-2336*

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Frames	2518
Time	6.07 seconds elapsed from frame 2336
Notes	Officer Marino yelled, "Put your hands on your head now!" In the previous frames, Officer Marino said this command three times. Zachary Fornash continued walking away and to the left of Officer Marino. His right hand was not visible and was on the right side/front of his body near his right waist/pocket. His left hand near his left waist/jacket pocket.



*Amped Five Project - 2023-3223-bookmark5-5-2518*

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Frames	2568
Time	1.67 seconds elapsed from frame 2518
Notes	Officer Marino yelled, "Get your hands..." Officer Marino held his pistol in front of him with both hands. Zachary Fornash turned to his left and his left side was facing Officer Marino. He continued walking away from and to the left of Officer Marino. Zachary Fornash also turned his head and was looking in the direction of Officer Marino. Zachary Fornash's right hand was not visible and was likely on his right side. His left hand was near his left waist/jacket pocket. His right foot was on the ground and his left foot was in the air.



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Frames	2571 and 2573
Time	0.17 seconds elapsed from frame 2568
Notes	<p>These frames were approximately when the first gunshot was fired by Officer Marino. 2571 was the visual frame and 2573 was the frame when an audio spike was visually observed on the waveform.</p> <p>Zachary Fornash turned to his left and his left side was facing Officer Marino. He continued walking away from and to the left of Officer Marino. Zachary Fornash also turned his head and was looking in the direction of Officer Marino. Zachary Fornash's right hand was not visible and was likely on his right side. His left hand was near his left waist/jacket pocket. His right foot was on the ground and his left foot was in the air.</p> <p>(Note: The gunshots were primarily noted due to visual cues. It was difficult to audibly determine when the gunshots were fired. There seemed to be a large amount of echo and reverberation. It is unknown why, but it could be due to a variety of reasons including: the sudden and extremely loud sounds of gunshots, echo/reverberation from the surrounding environment and buildings, the physical size and technological capabilities of the BWC microphone, etc.)</p>



*Amped Five Project - 2023-3223-bookmark5-5-2571*

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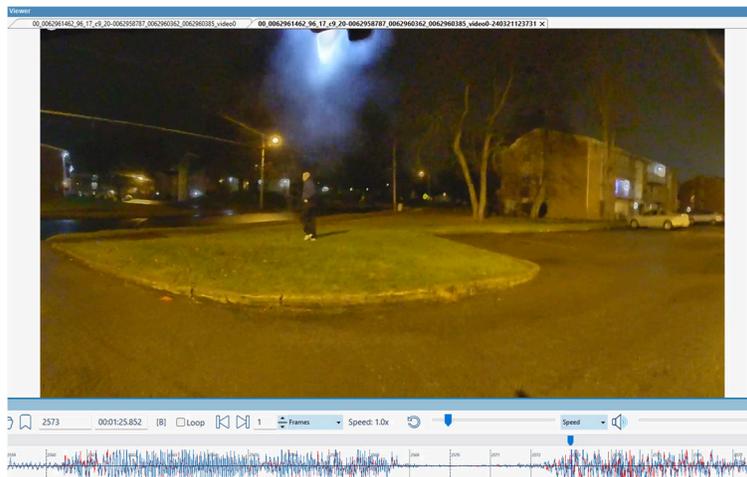
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*Amped Five Project - 2023-3223-bookmark5-5-2573*



*Gunshot 1 - Audio Waveform (snipping tool)*

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Frames	2581
Time	0.27 seconds elapsed from frame 2573
Notes	<p>This was the approximate frame of the second gunshot fired by Officer Marino.</p> <p>Zahcary Fornash continued moving away from and to the left of Officer Marino. His left foot was on the ground and his right foot was bent on the ground (in stride). He was looking in the direction of Officer Marino. Zachary Fornash's right hand was not visible and was likely on his right side. His left hand was near his left waist/jacket pocket.</p> <p>(Note: The gunshots were primarily noted due to visual cues. It was difficult to audibly determine when the gunshots were fired. There seemed to be a large amount of echo and reverberation. It is unknown why, but it could be due to a variety of reasons including: the sudden and extremely loud sounds of gunshots, echo/reverberation from the surrounding environment and buildings, the physical size and technological capabilities of the BWC microphone, etc.)</p>



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Frames	2589
Time	0.27 seconds elapsed from frame 2581
Notes	<p>This was the approximate frame of the third gunshot fired by Officer Marino. Zachary Fornash began to fall forward and to his right toward the ground. He was bent at the waist and his left arm/hand were extended outward. His right hand was not visible.</p> <p>(Note: The gunshots were primarily noted due to visual cues. It was difficult to audibly determine when the gunshots were fired. There seemed to be a large amount of echo and reverberation. It is unknown why, but it could be due to a variety of reasons including: the sudden and extremely loud sounds of gunshots, echo/reverberation from the surrounding environment and buildings, the physical size and technological capabilities of the BWC microphone, etc.)</p>



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Frames	2596
Time	0.23 seconds elapsed from frame 2589
Notes	This was the approximate frame of the fourth gunshot fired by Officer Marino (pistol movement in shadow). Zachary Fornash completed the process of falling to the ground and was on his front/right chest. His left hand was visible, but his right hand was still not visible. (Note: The gunshots were primarily noted due to visual cues. It was difficult to audibly determine when the gunshots were fired. There seemed to be a large amount of echo and reverberation. It is unknown why, but it could be due to a variety of reasons including: the sudden and extremely loud sounds of gunshots, echo/reverberation from the surrounding environment and buildings, the physical size and technological capabilities of the BWC microphone, etc.)



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Frames	2652
Time	1.87 seconds elapsed from frame 2596
Notes	Officer Marino moved forward and radioed, "Shots fired! Shots fired! Give me a supervisor." Zachary Fornash rolled to his right and onto his back. His left hand was observed near his hand. His right hand was not visible and appeared to be concealed in his right front jacket pocket.

Frames	2823
Time	5.7 seconds elapsed from frame 2652
Notes	Officer Marino approached Zachary Fornash and said, "Do not touch the gun! Do not touch the gun!" Zachary Fornash was laying on the ground on his back. His left hand was extended on the ground above his head. His right hand was not visible and appeared to be concealed in his right front jacket pocket.

Frames	2861
Time	1.27 seconds elapsed from frame 2823
Notes	Zachary Fornash said, "It's a BB gun."

Frames	3171
Time	10.3 seconds elapsed from frame 2861
Notes	Officer Marino radioed, "Get me medics." Officer Marino said, "Get your hand slowly out of your pocket! Do not grab the gun out from there!"

Frames	3318
Time	4.9 seconds elapsed from frame 3171
Notes	Officer Marino yelled, "Slowly out of your pocket! Do not touch the gun!"

Frames	3538
Time	7.3 seconds elapsed from frame 3318
Notes	Officer Marino yelled, "Slowly out of your pocket! Do not bring the gun out with your hand!"

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Frames	3752
Time	7.13 seconds elapsed from frame 3538, 7.17 seconds elapsed if including frame 3752
Notes	Officer Marino yelled, "Do not bring the gun out with your hand! Slowly!"

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**Additional Timing Estimates Summary**

SAS Moran used the "Timing and Action Summary" spreadsheet to calculate several significant activities noted during the video review. They were:

EVENT FRAMES	ACTIVITY DESCRIPTION	FRAMES	FPS	TOTAL TIME	ROUNDED
2198 to 2573	Marino moved toward Fornash and provided verbal commands and Fornash looked behind toward Marino (Fornash in view of BWC) to 1st gunshot fired by Marino.	375	0.03333333	12.49999875	12.5
2291 to 2573	Marino approached Fornash and provided verbal command and Fornash facing Marino to 1st gunshot fired by Marino.	282	0.03333333	9.39999906	9.4
2336 to 2573	Fornash turned around to his left and began walking away from Marino, Fornash's right hand concealed in jacket pocket, to 1st gunshot fired by Marino.	237	0.03333333	7.89999921	7.9
2518 to 2573	Marino provided three verbal commands to Fornash, Fornash continued walking away, right hand not visible, to 1st gunshot fired by Marino.	55	0.03333333	1.83333315	1.83
2568 to 2573	Marino started a verbal command, Fornash turned to his left and in direction of Marino, Fornash's right hand not visible, to 1st gunshot fired by Marino.	5	0.03333333	0.16666665	0.17
2573 to 2596	1st gunshot to 4th gunshot fired by Marino.	23	0.03333333	0.76666659	0.77
2198 to 2596	Total of above activities.	977	0.03333333	32.56666341	32.57

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**Ohio Attorney General's Office**  
**Bureau of Criminal Investigation**  
Investigative Report



2023-3223

Officer Involved Critical Incident - 807 Alan Page Dr SE, Canton,  
OH 44707

### Annotate Filter – Amped Five

After reviewing the Range Selector video, SAS Moran decided to use the Annotate filter and track Zachary Fornash's movement from the Range Selector frames 2247 through 2823. SAS Moran created an .mp4 video file showing the selected frames with the Annotate filter applied. This process is further documented in the Amped Five report. The video was exported and saved to a "Amped Five Derivatives" folder.

### References:

Item E – DVD - Amped Five Video Review - Officer Marino's BWC Video

Containing the following:

- Amped Five Derivatives (folder)
- Working Copy of Video (folder)
- Amped Five Project - 2023-3223 (file)
- Amped Five Project Interactive Report - 2023-3223 (PDF)
- Amped Five Project Non-Interactive Report - 2023-3223 (PDF)
- Gunshot 1 - Audio Waveform (file)
- Hash for Video Files - Shared Drive and Working Copy - md5file (file)
- logo\_five (file)
- Overhead Map (file)
- Timing and Action Summary Spreadsheet (PDF)
- Timing and Action Summary Spreadsheet (MS Excel)

### Attachments:

1. Amped Five Project Non-Interactive Report - 2023-3223
2. Timing and Action Summary Spreadsheet for Amped Five Video Review

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# Amped FIVE Report



Report Generation: 2024-05-21 17:00:04  
Project Name: 2023-3223  
Author: SAS Charles Moran #67  
Description: Video analysis and review of Canton Police Department Officer Garrett Marino's body-worn camera video file that recorded the officer-involved critical incident that occurred on 12/05/2023.

- Software version info:
  - Build date: 20231018
  - Revision: 31095
- Platform:
  - Operating System: Microsoft Windows, 64 bit
  - CPU Model: 13th Gen Intel(R) Core(TM) i7-13700HX

**Project File:** Amped Five Project - 2023-3223.afp

- 
- Input File Details:
    - Filename: Amped Five Derivatives/Range Selector/00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731.mp4
      - MD5 Hash Code: 0d6b365f118fd07c00922cb2e3f68745
      - File Size (bytes): 318969149
      - Format: mov,mp4,m4a,3gp,3g2,mj2
      - Codec: h264
      - Width (pixels): 1920
      - Height (pixels): 1080
      - Fps: 29.9700
      - Length (frames): 3801
      - Duration (time): 00:02:06.826
    - Filename: Working Copy of Video/00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0.mp4
      - MD5 Hash Code: 434ce433c7f290d569b9e97af8f2e374
      - File Size (bytes): 416161869
      - Format: mov,mp4,m4a,3gp,3g2,mj2
      - Codec: h264
      - Width (pixels): 1920
      - Height (pixels): 1080
      - Fps: 29.9700
      - Length (frames): 16500
      - Duration (time): 00:09:10.550
  - Output File Details:
    - Filename: Amped Five Derivatives/Annotate/00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321164440.mp4
      - MD5 Hash Code: f2b1f3233c08ac9bd119c4550b1b9832
      - File Size (bytes): 328079485
      - Format: mov,mp4,m4a,3gp,3g2,mj2
      - Codec: h264
      - Width (pixels): 1920
      - Height (pixels): 1080
      - Fps: 29.9700
      - Length (frames): 577
      - Duration (time): 00:00:19.252
    - Filename: Amped Five Derivatives/Range Selector/00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731.mp4
      - MD5 Hash Code: 0d6b365f118fd07c00922cb2e3f68745
      - File Size (bytes): 318969149
      - Format: mov,mp4,m4a,3gp,3g2,mj2
      - Codec: h264
      - Width (pixels): 1920
      - Height (pixels): 1080
      - Fps: 29.9700
      - Length (frames): 3801
      - Duration (time): 00:02:06.826

---

## Bookmarks:

[AF-RS - Marino, frame 0](#)



No audio stream from frame 0-935 (approximately). Marino driving in cruiser.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 0

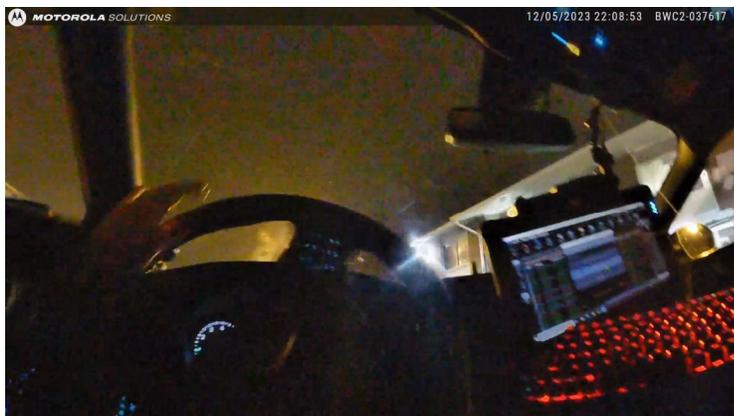
[AF-RS - Marino, frame 936](#)



Audio stream started (approximately). Marino driving in cruiser.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 936

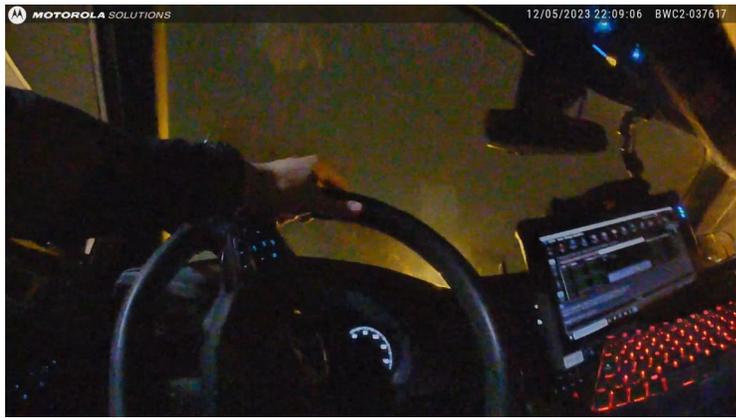
[AF-RS - Marino, frame 1308](#)



Officer Marino continued driving his police cruiser. He radioed, "Just ran into the 807 building."

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 1308

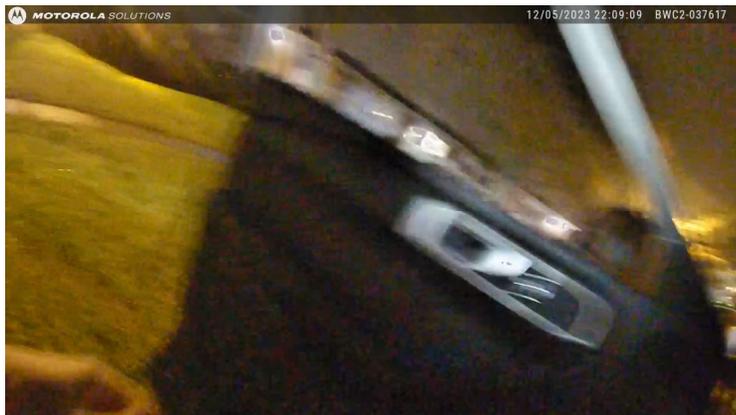
[AF-RS - Marino, frame 1684](#)



Officer Marino continued driving his police cruiser. He radioed, "Give me the air."

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 1684

[AF-RS - Marino, frame 1792](#)



Officer Marino continued driving his police cruiser. He radioed, "Give me the air."

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 1792

[AF-RS - Marino, frame 1931](#)



Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 1931

[AF-RS - Marino, frame 2016](#)



Officer Marino continued running and yelled, "Get on the ground or you're gonna get shot!" Officer Marino had his pistol in his right hand with his right arm extended in front of him. It was likely that Zachary Fornash was observed on the BWC video near the corner of a building with his back toward Officer Marino.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2016

[AF-RS - Marino, frame 2079](#)



Officer Marino continued running and yelled, "Get the fuck on the ground! You're going to get shot!" Officer Marino had his pistol in his right hand with his right arm extended in front of him. Zachary Fornash was not in the BWC view and moved around the corner of the building.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2079

[AF-RS - Marino, frame 2153](#)



Officer Marino ran around the corner of the building and said, "Get on the ground! Show me your hands!" Officer Marino had his pistol in his right hand with his right arm extended in front of him. Zachary Fornash was running away from Officer Marino.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2153

[AF-RS - Marino, frame 2198](#)



Officer Marino continued moving toward Zachary Fornash and said, “Show me your hands now! Show me your hands now!” Officer Marino had his pistol extended outward with both hands (shadow on ground). It appeared that Zachary Fornash partially turned to his left to look behind him in the direction of Officer Marino. Zachary Fornash’s hands appeared to be near his waist.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2198

[AF-RS - Marino, frame 2291](#)



Officer Marino approached Zachary Fornash and said, “Put your hands on your head!” Officer Marino had his pistol extended outward with both hands (shadow on ground). Zachary Fornash was now facing Officer Marino. It appeared that his right hand was concealed in his right front jacket pocket and his left hand was near his left waist/jacket pocket.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2291

[AF-RS - Marino, frame 2336](#)



Zachary Fornash turned around to his left and began walking away from Officer Marino. It appeared that his right hand was concealed in his right front jacket pocket and his left hand was near his left waist/jacket pocket. Officer Marino yelled, “Put your fucking hands on your head!”

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2336

[AF-RS - Marino, frame 2518](#)



Officer Marino yelled, “Put your hands on your head now!” In the previous frames, Officer Marino said this command three times. Zachary Fornash continued walking away and to the left of Officer Marino. His right hand was not visible and was on the right side/front of his body near his right waist/pocket. His left hand near his left waist/jacket pocket.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2518

[AF-RS - Marino, frame 2568](#)



Officer Marino yelled, “Get your hands...” Officer Marino held his pistol in front of him with both hands. Zachary Fornash turned to his left and his left side was facing Officer Marino. Zachary Fornash also turned his head and was looking in the direction of Officer Marino. Zachary Fornash’s right hand was not visible and was likely on his right side. His left hand was near his left waist/jacket pocket. His right foot was on the ground and his left foot was in the air.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2568

[AF-RS - Marino, frame 2571](#)



These frames were approximately when the first gunshot was fired by Officer Marino. 2571 was the visual frame and the 2573 was the frame when an audio spike was visually observed on the waveform. Zachary Fornash turned to his left and his left side was facing Officer Marino. He continued walking away from and to the left of Officer Marino. Zachary Fornash also turned his head and was looking in the direction of Officer Marino. Zachary Fornash’s right hand was not visible and was likely on his right side. His left hand was near his left waist/jacket pocket. His right foot was on the ground and his left foot was in the air.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2571

[AF-RS - Marino, frame 2573](#)



These frames were approximately when the first gunshot was fired by Officer Marino. 2571 was the visual frame and the 2573 was the frame when an audio spike was visually observed on the waveform. Zachary Fornash turned to his left and his left side was facing Officer Marino. He continued walking away from and to the left of Officer Marino. Zachary Fornash also turned his head and was looking in the direction of Officer Marino. Zachary Fornash's right hand was not visible and was likely on his right side. His left hand was near his left waist/jacket pocket. His right foot was on the ground and his left foot was in the air.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2573

[AF-RS - Marino, frame 2581](#)



This was the approximate frame of the second gunshot fired by Officer Marino. Zachary Fornash continued moving away from and to the left of Officer Marino. His left foot was on the ground and his right foot was bent on the ground (in stride). He was looking in the direction of Officer Marino. Zachary Fornash's right hand was not visible and was likely on his right side. His left hand was near his left waist/jacket pocket.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2581

[AF-RS - Marino, frame 2589](#)



This was the approximate frame of the third gunshot fired by Officer Marino. Zachary Fornash began to fall forward and to his right toward the ground. He was bent at the waist and his left arm/hand were extended outward. His right hand was not visible.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2589

[AF-RS - Marino, frame 2596](#)



This was the approximate frame of the fourth gunshot fired by Officer Marino (pistol movement in shadow). Zachary Fornash completed the process of falling to the ground and was on his front/right chest. His left hand was visible, but his right hand was still not visible.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2596

[AF-RS - Marino, frame 2652](#)



Officer Marino moved forward and radioed, "Shots fired!" Zachary Fornash rolled to his right and onto his back. His left hand was observed near his head. His right hand was not visible and appeared to be concealed in his right front jacket pocket.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2652

[AF-RS - Marino, frame 2823](#)



Officer Marino approached Zachary Fornash and said, "Do not touch the gun! Do not touch the gun!" Zachary Fornash was laying on the ground on his back. His left hand was extended on the ground above his head. His right hand was not visible and appeared to be concealed in his right front jacket pocket.

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2823

[AF-RS - Marino, frame 2861](#)



Zachary Fornash said, "It's a BB gun."

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 2861

[AF-RS - Marino, frame 3171](#)



Officer Marino radioed, "Get me medics." Officer Marino said, "Get your hand slowly out of your pocket! Do not grab the gun out from there!"

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 3171

[AF-RS - Marino, frame 3318](#)



Officer Marino yelled, "Slowly out of your pocket! Do not touch the gun!"

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 3318

[AF-RS - Marino, frame 3538](#)



Officer Marino yelled, "Slowly out of your pocket! Do not bring the gun out with your hand!"

Chain: 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731, Filter: Video Loader, Position: 3538

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## Summary:

[00\\_0062961462\\_96\\_17\\_c9\\_20-0062958787\\_0062960362\\_0062960385\\_video0](#)

[Video Loader](#): Loads a video from file.

[Range Selector](#): Selects a range of frames in a video. Supports the trimming of the original video stream with no transcoding.

[Video Writer](#): Writes the current video to a file.

[00\\_0062961462\\_96\\_17\\_c9\\_20-0062958787\\_0062960362\\_0062960385\\_video0-240321123731](#)

[Video Loader](#): Loads a video from file.

[00\\_0062961462\\_96\\_17\\_c9\\_20-0062958787\\_0062960362\\_0062960385\\_video0-240321123731 \(copy\)](#)

[Video Loader](#): Loads a video from file.

[Range Selector](#): Selects a range of frames in a video. Supports the trimming of the original video stream with no transcoding.

[Annotate](#): Draws annotations over the image.

[Video Writer](#): Writes the current video to a file.

---

## 00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0

### Video Loader

*Loads a video from file.*

#### Details:

The *Video Loader* decodes a standard-format video file into a sequence of frames that can be displayed and processed.

#### Parameters:

- **File:** Working Copy of Video/00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0.mp4  
*Path of the video to load.*
- **Video Engine:** FFMS with Audio  
*Video decoder to use.*
- **Color Range:** Full  
*Uses the color range specified in the video file or force it to full or limited (16-235). Works only with the FFMS Video Engine.*
- **Chroma Upsampling:** Accurate Rounding (Slower)  
*Selects the chroma upsampling method. Applies only to FFMS-based video engines.*
- **Audio Stream:** 1  
*Audio Stream selection, useful when multiple streams are available.*
- **Original File:**  
*Original video file that has been converted from a proprietary DVR format or otherwise imported.*
- **Concatenate File List:**  
*List of files that were concatenated as part of the conversion process*

#### Additional Information:

- **Video Streams:** 1  
*Number of video streams in the video*
  - **Audio Streams:** 1  
*Number of audio streams in the video*
  - **Subtitle Streams:** 0  
*Number of subtitle streams in the video*
- 

### Range Selector

*Selects a range of frames in a video. Supports the trimming of the original video stream with no transcoding.*

#### Details:

The *Range Selector* tool outputs a range of frames from the input clip.

#### Parameters:

- **First Frame:** 0  
*First frame of the selection of interest.*
- **Last Frame:** 3800  
*Last frame of the selection of interest.*
- **Step:** 1  
*Outputs only one frame every Step frames.*

#### Additional Information:

This filter has no additional information.

---

### Video Writer

*Writes the current video to a file.*

#### Details:

The *Video Writer* tool encodes all frames of the current clip to the specified video file format.

#### Parameters:

- **File:** Amped Five Derivatives/Range Selector/00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731.mp4  
*Path of the file to save.*
- **Container and Video Codec:** mp4 - H264  
*Container and codec used to store the media stream(s).*
- **Audio Codec:** MP3  
*Codec used to write the audio stream.*
- **Frame rate:** 29.9700  
*Frame rate (in frames per second) of the output video. Note that some video formats support only a limited set of frame rates, and the frame rate may influence some properties of the output video (e.g. the GOP size) for some codecs.*
- **Quality:** Default  
*If a codec with quality control has been selected, the following options can be selected:  
Default: Uses a Constant Rate Factor of 18  
High: Uses a Constant Rate Factor of 12  
Visually Lossless: Uses a Constant Rate Factor of 1*
- **HW Acceleration:** None  
*Enables encoding acceleration of the on-board Graphic Processing Unit. Acceleration will be tested when the filter is applied.*

**Additional Information:**

- **Video Streams:** 1  
*Number of video streams in the video*
  - **Audio Streams:** 1  
*Number of audio streams in the video*
  - **Subtitle Streams:** 0  
*Number of subtitle streams in the video*
-

## Video Loader

*Loads a video from file.*

### Details:

The *Video Loader* decodes a standard-format video file into a sequence of frames that can be displayed and processed.

### Parameters:

- **File:** Amped Five Derivatives/Range Selector/00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731.mp4  
*Path of the video to load.*
- **Video Engine:** FFMS with Audio  
*Video decoder to use.*
- **Color Range:** Full  
*Uses the color range specified in the video file or force it to full or limited (16-235). Works only with the FFMS Video Engine.*
- **Chroma Upsampling:** Accurate Rounding (Slower)  
*Selects the chroma upsampling method. Applies only to FFMS-based video engines.*
- **Audio Stream:** 1  
*Audio Stream selection, useful when multiple streams are available.*
- **Original File:**  
*Original video file that has been converted from a proprietary DVR format or otherwise imported.*
- **Concatenate File List:**  
*List of files that were concatenated as part of the conversion process*

### Additional Information:

- **Video Streams:** 1  
*Number of video streams in the video*
  - **Audio Streams:** 1  
*Number of audio streams in the video*
  - **Subtitle Streams:** 0  
*Number of subtitle streams in the video*
-

## Video Loader

*Loads a video from file.*

### Details:

The *Video Loader* decodes a standard-format video file into a sequence of frames that can be displayed and processed.

### Parameters:

- **File:** Amped Five Derivatives/Range Selector/00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731.mp4  
*Path of the video to load.*
- **Video Engine:** FFMS with Audio  
*Video decoder to use.*
- **Color Range:** Full  
*Uses the color range specified in the video file or force it to full or limited (16-235). Works only with the FFMS Video Engine.*
- **Chroma Upsampling:** Accurate Rounding (Slower)  
*Selects the chroma upsampling method. Applies only to FFMS-based video engines.*
- **Audio Stream:** 1  
*Audio Stream selection, useful when multiple streams are available.*
- **Original File:**  
*Original video file that has been converted from a proprietary DVR format or otherwise imported.*
- **Concatenate File List:**  
*List of files that were concatenated as part of the conversion process*

### Additional Information:

- **Video Streams:** 1  
*Number of video streams in the video*
  - **Audio Streams:** 1  
*Number of audio streams in the video*
  - **Subtitle Streams:** 0  
*Number of subtitle streams in the video*
- 

## Range Selector

*Selects a range of frames in a video. Supports the trimming of the original video stream with no transcoding.*

### Details:

The *Range Selector* tool outputs a range of frames from the input clip.

### Parameters:

- **First Frame:** 2247  
*First frame of the selection of interest.*
- **Last Frame:** 2823  
*Last frame of the selection of interest.*
- **Step:** 1  
*Outputs only one frame every Step frames.*

### Additional Information:

This filter has no additional information.

---

## Annotate

*Draws annotations over the image.*

### Details:

*Annotate* draws annotations over the image: shapes, arrows, lines. It can also add texts, images, as well as hiding and magnifying a selected area.

### Parameters:

- **Annotation Tool:**
  - Magnify (Rectangle, Zoom: 2.0, Interpolation: Bicubic)
    - Colors: Border #FF8000 ●
    - from frame 0 (Source region coordinates: Center: [786, 372], Width: 265px, Height: 425px, Output region coordinates: Center: [1655, 472], Rotation: 0°, Width: 530px, Height: 849px)
    - to frame 576 (Source region coordinates: Center: [737, 746], Width: 332px, Height: 331px, Output region coordinates: Center: [354, 548], Rotation: 0°, Width: 663px, Height: 662px)*Parameters are dependent on the selected annotation tool. See Usage below for details.*

### Additional Information:

This filter has no additional information.

---

## Video Writer

*Writes the current video to a file.*

**Details:**

The *Video Writer* tool encodes all frames of the current clip to the specified video file format.

**Parameters:**

- **File:** Amped Five Derivatives/Annotate/00\_0062961462\_96\_17\_c9\_20-0062958787\_0062960362\_0062960385\_video0-240321123731-240521164440.mp4  
*Path of the file to save.*
- **Container and Video Codec:** mp4 - H264  
*Container and codec used to store the media stream(s).*
- **Audio Codec:** MP3  
*Codec used to write the audio stream.*
- **Frame rate:** 29.9700  
*Frame rate (in frames per second) of the output video. Note that some video formats support only a limited set of frame rates, and the frame rate may influence some properties of the output video (e.g. the GOP size) for some codecs.*
- **Quality:** Visually Lossless  
*If a codec with quality control has been selected, the following options can be selected:*  
*Default: Uses a Constant Rate Factor of 18*  
*High: Uses a Constant Rate Factor of 12*  
*Visually Lossless: Uses a Constant Rate Factor of 1*
- **HW Acceleration:** None  
*Enables encoding acceleration of the on-board Graphic Processing Unit. Acceleration will be tested when the filter is applied.*

**Additional Information:**

- **Video Streams:** 1  
*Number of video streams in the video*
  - **Audio Streams:** 1  
*Number of audio streams in the video*
  - **Subtitle Streams:** 0  
*Number of subtitle streams in the video*
-

**Timing and Action Summary**  
Amped Five Review of CPD Officer Marino's BWC Video

FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME	FRAME
1792	1931	2016	2079	2153	2198	2291	2336	2518	2568	2573	2581	2589	2596	2652	2823	2861	3171	3318	3538	3752
Marino exited cruiser, began running, and provided a verbal command.	Marino radioed, "Give me the air. He's got a gun."	Marino continued running and provided verbal command. Fornash near corner of building.	Marino continued running and provided verbal commands.	Marino ran around the corner of the building and provided verbal commands. Fornash was running away.	Marino moved toward Fornash and provided verbal commands. It appeared that Fornash partially turned to his left to look behind him in the direction of Marino. Fornash's hands appeared to be near his waist.	Marino approached Fornash and provided a verbal command. Fornash was now facing Officer Marino. It appeared that his right hand was concealed in his right front jacket pocket and his left hand was near his left waist/jacket pocket.	Fornash turned around to his left and began walking away from Marino. It appeared that his right hand was concealed in his right front jacket pocket and his left hand was near his left waist/jacket pocket. Marino provided a verbal command.	Marino provided a verbal command and three similar verbal commands in the frames prior. Fornash continued walking away and to the left of Marino. His right hand was not visible and was on the right side/front of his body near his right waist/pocket. His left hand was near his left waist/jacket pocket.	Marino provided a partial verbal command. Fornash turned to his left and his left side was facing Marino. He continued walking away from and to the left of Marino. Fornash also turned his head and was looking in the direction of Marino. Fornash's right hand was not visible and was likely on his right side. His left hand was near his left waist/jacket pocket.	Approximate frame of first gunshot fired by Marino. Fornash turned to his left and his left side was facing Marino. He continued walking away from and to the left of Marino. Fornash also turned his head and was looking in the direction of Marino. Fornash's right hand was not visible and was likely on his right side. His left hand was near his left waist/jacket pocket.	Approximate frame of second gunshot fired by Marino. Fornash continued moving away from and to the left of Marino. His left foot was on the ground and his right foot was bent on the ground (in stride). He was looking in the direction of Marino. Fornash's right hand was not visible and was likely on his right side. His left hand was near his left waist/jacket pocket.	Approximate frame of third gunshot fired by Marino. Fornash began to fall forward and to his right toward the ground. He was bent at the waist and his left arm/hand were extended outward. His right hand was not visible.	Approximate frame of fourth gunshot fired by Marino. Fornash completed the process of falling to the ground and was on his front/right chest. His left hand was visible, but his right hand was still not visible.	Marino radioed that shots were fired.	Marino provided verbal commands.	Fornash said, "It's a BB gun."	Marino radioed and requested medics.	Marino provided verbal commands.	Marino provided verbal commands.	Marino provided verbal commands.
1792	1931	2016	2079	2153	2198	2291	2336	2518	2568	2573	2581	2589	2596	2652	2823	2861	3171	3318	3538	3752
1793	1932	2017	2080	2154	2199	2292	2337	2519	2569	2574	2582	2590	2597	2653	2824	2862	3172	3319	3539	TOTAL FRAMES
1794	1933	2018	2081	2155	2200	2293	2338	2520	2570	2575	2583	2591	2598	2654	2825	2863	3173	3320	3540	1
1795	1934	2019	2082	2156	2201	2294	2339	2521	2571	2576	2584	2592	2599	2655	2826	2864	3174	3321	3541	0.03333333
1796	1935	2020	2083	2157	2202	2295	2340	2522	2572	2577	2585	2593	2600	2656	2827	2865	3175	3322	3542	TIME
1797	1936	2021	2084	2158	2203	2296	2341	2523	TOTAL FRAMES	2578	2586	2594	2601	2657	2828	2866	3176	3323	3543	0.03333333
1798	1937	2022	2085	2159	2204	2297	2342	2524	5	2579	2587	2595	2602	2658	2829	2867	3177	3324	3544	0.3
1799	1938	2023	2086	2160	2205	2298	2343	2525	0.03333333	2580	2588	TOTAL FRAMES	2603	2659	2830	2868	3178	3325	3545	
1800	1939	2024	2087	2161	2206	2299	2344	2526	TIME ELAPSED TO NEXT FRAME	TOTAL FRAMES	TOTAL FRAMES	7	2604	2660	2831	2869	3179	3326	3546	
1801	1940	2025	2088	2162	2207	2300	2345	2527	0.16666665	8	8	0.03333333	2605	2661	2832	2870	3180	3327	3547	
1802	1941	2026	2089	2163	2208	2301	2346	2528	0.17	0.03333333	0.03333333	TIME ELAPSED TO NEXT FRAME	2606	2662	2833	2871	3181	3328	3548	
1803	1942	2027	2090	2164	2209	2302	2347	2529	TIME ELAPSED TO NEXT FRAME	TIME ELAPSED TO NEXT FRAME	0.23333331	2607	2663	2834	2872	3182	3329	3549		
1804	1943	2028	2091	2165	2210	2303	2348	2530	0.26666664	0.26666664	0.22	2608	2664	2835	2873	3183	3330	3550		
1805	1944	2029	2092	2166	2211	2304	2349	2531	0.27	0.27		2609	2665	2836	2874	3184	3331	3551		
1806	1945	2030	2093	2167	2212	2305	2350	2532				2610	2666	2837	2875	3185	3332	3552		
1807	1946	2031	2094	2168	2213	2306	2351	2533				2611	2667	2838	2876	3186	3333	3553		
1808	1947	2032	2095	2169	2214	2307	2352	2534				2612	2668	2839	2877	3187	3334	3554		
1809	1948	2033	2096	2170	2215	2308	2353	2535				2613	2669	2840	2878	3188	3335	3555		
1810	1949	2034	2097	2171	2216	2309	2354	2536				2614	2670	2841	2879	3189	3336	3556		
1811	1950	2035	2098	2172	2217	2310	2355	2537				2615	2671	2842	2880	3190	3337	3557		
1812	1951	2036	2099	2173	2218	2311	2356	2538				2616	2672	2843	2881	3191	3338	3558		
1813	1952	2037	2100	2174	2219	2312	2357	2539				2617	2673	2844	2882	3192	3339	3559		
1814	1953	2038	2101	2175	2220	2313	2358	2540				2618	2674	2845	2883	3193	3340	3560		
1815	1954	2039	2102	2176	2221	2314	2359	2541				2619	2675	2846	2884	3194	3341	3561		
1816	1955	2040	2103	2177	2222	2315	2360	2542				2620	2676	2847	2885	3195	3342	3562		
1817	1956	2041	2104	2178	2223	2316	2361	2543				2621	2677	2848	2886	3196	3343	3563		
1818	1957	2042	2105	2179	2224	2317	2362	2544				2622	2678	2849	2887	3197	3344	3564		
1819	1958	2043	2106	2180	2225	2318	2363	2545				2623	2679	2850	2888	3198	3345	3565		
1820	1959	2044	2107	2181	2226	2319	2364	2546				2624	2680	2851	2889	3199	3346	3566		
1821	1960	2045	2108	2182	2227	2320	2365	2547				2625	2681	2852	2890	3200	3347	3567		
1822	1961	2046	2109	2183	2228	2321	2366	2548				2626	2682	2853	2891	3201	3348	3568		
1823	1962	2047	2110	2184	2229	2322	2367	2549				2627	2683	2854	2892	3202	3349	3569		
1824	1963	2048	2111	2185	2230	2323	2368	2550				2628	2684	2855	2893	3203	3350	3570		
1825	1964	2049	2112	2186	2231	2324	2369	2551				2629	2685	2856	2894	3204	3351	3571		
1826	1965	2050	2113	2187	2232	2325	2370	2552				2630	2686	2857	2895	3205	3352	3572		

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1827	1966	2051	2114	2188	2233	2326	2371	2553						2631	2687	2858	2896	3206	3353	3573	
1828	1967	2052	2115	2189	2234	2327	2372	2554						2632	2688	2859	2897	3207	3354	3574	
1829	1968	2053	2116	2190	2235	2328	2373	2555						2633	2689	2860	2898	3208	3355	3575	
1830	1969	2054	2117	2191	2236	2329	2374	2556						2634	2690	TOTAL FRAMES	2899	3209	3356	3576	
1831	1970	2055	2118	2192	2237	2330	2375	2557						2635	2691	38	2900	3210	3357	3577	
1832	1971	2056	2119	2193	2238	2331	2376	2558						2636	2692	0.03333333	2901	3211	3358	3578	
1833	1972	2057	2120	2194	2239	2332	2377	2559						2637	2693	TIME ELAPSED TO NEXT FRAME	2902	3212	3359	3579	
1834	1973	2058	2121	2195	2240	2333	2378	2560						2638	2694	1.26666654	2903	3213	3360	3580	
1835	1974	2059	2122	2196	2241	2334	2379	2561						2639	2695	1.27	2904	3214	3361	3581	
1836	1975	2060	2123	2197	2242	2335	2380	2562						2640	2696		2905	3215	3362	3582	
1837	1976	2061	2124	TOTAL FRAMES	2243	TOTAL FRAMES	2381	2563						2641	2697		2906	3216	3363	3583	
1838	1977	2062	2125	45	2244	45	2382	2564						2642	2698		2907	3217	3364	3584	
1839	1978	2063	2126	0.03333333	2245	0.03333333	2383	2565						2643	2699		2908	3218	3365	3585	
1840	1979	2064	2127	TIME ELAPSED TO NEXT FRAME	2246	TIME ELAPSED TO NEXT FRAME	2384	2566						2644	2700		2909	3219	3366	3586	
1841	1980	2065	2128	1.49999985	2247	1.49999985	2385	2567						2645	2701		2910	3220	3367	3587	
1842	1981	2066	2129	1.5	2248	1.5	2386	TOTAL FRAMES						2646	2702		2911	3221	3368	3588	
1843	1982	2067	2130		2249		2387	50						2647	2703		2912	3222	3369	3589	
1844	1983	2068	2131		2250		2388	0.03333333						2648	2704		2913	3223	3370	3590	
1845	1984	2069	2132		2251		2389	TIME ELAPSED TO NEXT FRAME						2649	2705		2914	3224	3371	3591	
1846	1985	2070	2133		2252		2390	1.6666665						2650	2706		2915	3225	3372	3592	
1847	1986	2071	2134		2253		2391	1.67						2651	2707		2916	3226	3373	3593	
1848	1987	2072	2135		2254		2392							TOTAL FRAMES	2708		2917	3227	3374	3594	
1849	1988	2073	2136		2255		2393							56	2709		2918	3228	3375	3595	
1850	1989	2074	2137		2256		2394							0.03333333	2710		2919	3229	3376	3596	
1851	1990	2075	2138		2257		2395							TIME ELAPSED TO NEXT FRAME	2711		2920	3230	3377	3597	
1852	1991	2076	2139		2258		2396							1.86666648	2712		2921	3231	3378	3598	
1853	1992	2077	2140		2259		2397							1.87	2713		2922	3232	3379	3599	
1854	1993	2078	2141		2260		2398								2714		2923	3233	3380	3600	
1855	1994	TOTAL FRAMES	2142		2261		2399								2715		2924	3234	3381	3601	
1856	1995	63	2143		2262		2400								2716		2925	3235	3382	3602	
1857	1996	0.03333333	2144		2263		2401								2717		2926	3236	3383	3603	
1858	1997	TIME ELAPSED TO NEXT FRAME	2145		2264		2402								2718		2927	3237	3384	3604	
1859	1998	2.09999979	2146		2265		2403								2719		2928	3238	3385	3605	
1860	1999	2.1	2147		2266		2404								2720		2929	3239	3386	3606	
1861	2000		2148		2267		2405								2721		2930	3240	3387	3607	
1862	2001		2149		2268		2406								2722		2931	3241	3388	3608	
1863	2002		2150		2269		2407								2723		2932	3242	3389	3609	
1864	2003		2151		2270		2408								2724		2933	3243	3390	3610	
1865	2004		2152		2271		2409								2725		2934	3244	3391	3611	
1866	2005		TOTAL FRAMES		2272		2410								2726		2935	3245	3392	3612	
1867	2006		74		2273		2411								2727		2936	3246	3393	3613	
1868	2007		0.03333333		2274		2412								2728		2937	3247	3394	3614	
1869	2008		TIME ELAPSED TO NEXT FRAME		2275		2413								2729		2938	3248	3395	3615	
1870	2009		2.46666642		2276		2414								2730		2939	3249	3396	3616	
1871	2010		2.47		2277		2415								2731		2940	3250	3397	3617	
1872	2011				2278		2416								2732		2941	3251	3398	3618	
1873	2012				2279		2417								2733		2942	3252	3399	3619	
1874	2013				2280		2418								2734		2943	3253	3400	3620	
1875	2014				2281		2419								2735		2944	3254	3401	3621	
1876	2015				2282		2420								2736		2945	3255	3402	3622	
1877	TOTAL FRAMES				2283		2421								2737		2946	3256	3403	3623	
1878	85				2284		2422								2738		2947	3257	3404	3624	
1879	0.03333333				2285		2423								2739		2948	3258	3405	3625	
1880	TIME ELAPSED TO NEXT FRAME				2286		2424								2740		2949	3259	3406	3626	
1881	2.83333305				2287		2425								2741		2950	3260	3407	3627	
1882	2.83				2288		2426								2742		2951	3261	3408	3628	

1883					2289		2427							2743		2952	3262	3409	3629	
1884					2290		2428							2744		2953	3263	3410	3630	
1885					TOTAL FRAMES		2429							2745		2954	3264	3411	3631	
1886					93		2430							2746		2955	3265	3412	3632	
1887					0.03333333		2431							2747		2956	3266	3413	3633	
1888					TIME ELAPSED TO NEXT FRAME		2432							2748		2957	3267	3414	3634	
1889					3.09999969		2433							2749		2958	3268	3415	3635	
1890					3.1		2434							2750		2959	3269	3416	3636	
1891							2435							2751		2960	3270	3417	3637	
1892							2436							2752		2961	3271	3418	3638	
1893							2437							2753		2962	3272	3419	3639	
1894							2438							2754		2963	3273	3420	3640	
1895							2439							2755		2964	3274	3421	3641	
1896							2440							2756		2965	3275	3422	3642	
1897							2441							2757		2966	3276	3423	3643	
1898							2442							2758		2967	3277	3424	3644	
1899							2443							2759		2968	3278	3425	3645	
1900							2444							2760		2969	3279	3426	3646	
1901							2445							2761		2970	3280	3427	3647	
1902							2446							2762		2971	3281	3428	3648	
1903							2447							2763		2972	3282	3429	3649	
1904							2448							2764		2973	3283	3430	3650	
1905							2449							2765		2974	3284	3431	3651	
1906							2450							2766		2975	3285	3432	3652	
1907							2451							2767		2976	3286	3433	3653	
1908							2452							2768		2977	3287	3434	3654	
1909							2453							2769		2978	3288	3435	3655	
1910							2454							2770		2979	3289	3436	3656	
1911							2455							2771		2980	3290	3437	3657	
1912							2456							2772		2981	3291	3438	3658	
1913							2457							2773		2982	3292	3439	3659	
1914							2458							2774		2983	3293	3440	3660	
1915							2459							2775		2984	3294	3441	3661	
1916							2460							2776		2985	3295	3442	3662	
1917							2461							2777		2986	3296	3443	3663	
1918							2462							2778		2987	3297	3444	3664	
1919							2463							2779		2988	3298	3445	3665	
1920							2464							2780		2989	3299	3446	3666	
1921							2465							2781		2990	3300	3447	3667	
1922							2466							2782		2991	3301	3448	3668	
1923							2467							2783		2992	3302	3449	3669	
1924							2468							2784		2993	3303	3450	3670	
1925							2469							2785		2994	3304	3451	3671	
1926							2470							2786		2995	3305	3452	3672	
1927							2471							2787		2996	3306	3453	3673	
1928							2472							2788		2997	3307	3454	3674	
1929							2473							2789		2998	3308	3455	3675	
1930							2474							2790		2999	3309	3456	3676	
TOTAL FRAMES							2475							2791		3000	3310	3457	3677	
139							2476							2792		3001	3311	3458	3678	
0.03333333							2477							2793		3002	3312	3459	3679	
TIME ELAPSED TO NEXT FRAME							2478							2794		3003	3313	3460	3680	
4.63333287							2479							2795		3004	3314	3461	3681	
4.63							2480							2796		3005	3315	3462	3682	
							2481							2797		3006	3316	3463	3683	
							2482							2798		3007	3317	3464	3684	
							2483							2799		3008	TOTAL FRAMES	3465	3685	
							2484							2800		3009	147	3466	3686	
							2485							2801		3010	0.03333333	3467	3687	
							2486							2802		3011	TIME ELAPSED TO NEXT FRAME	3468	3688	

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							2487								2803		3012	4.89999951	3469	3689
							2488								2804		3013	4.9	3470	3690
							2489								2805		3014		3471	3691
							2490								2806		3015		3472	3692
							2491								2807		3016		3473	3693
							2492								2808		3017		3474	3694
							2493								2809		3018		3475	3695
							2494								2810		3019		3476	3696
							2495								2811		3020		3477	3697
							2496								2812		3021		3478	3698
							2497								2813		3022		3479	3699
							2498								2814		3023		3480	3700
							2499								2815		3024		3481	3701
							2500								2816		3025		3482	3702
							2501								2817		3026		3483	3703
							2502								2818		3027		3484	3704
							2503								2819		3028		3485	3705
							2504								2820		3029		3486	3706
							2505								2821		3030		3487	3707
							2506								2822		3031		3488	3708
							2507								TOTAL FRAMES		3032		3489	3709
							2508								171		3033		3490	3710
							2509								0.03333333		3034		3491	3711
							2510								TIME ELAPSED TO NEXT FRAME		3035		3492	3712
							2511								5.69999943		3036		3493	3713
							2512								5.7		3037		3494	3714
							2513										3038		3495	3715
							2514										3039		3496	3716
							2515										3040		3497	3717
							2516										3041		3498	3718
							2517										3042		3499	3719
							TOTAL FRAMES										3043		3500	3720
							182										3044		3501	3721
							0.03333333										3045		3502	3722
							TIME ELAPSED TO NEXT FRAME										3046		3503	3723
							6.06666606										3047		3504	3724
							6.07										3048		3505	3725
																	3049		3506	3726
																	3050		3507	3727
																	3051		3508	3728
																	3052		3509	3729
																	3053		3510	3730
																	3054		3511	3731
																	3055		3512	3732
																	3056		3513	3733
																	3057		3514	3734
																	3058		3515	3735
																	3059		3516	3736
																	3060		3517	3737
																	3061		3518	3738
																	3062		3519	3739
																	3063		3520	3740
																	3064		3521	3741
																	3065		3522	3742
																	3066		3523	3743
																	3067		3524	3744
																	3068		3525	3745
																	3069		3526	3746
																	3070		3527	3747
																	3071		3528	3748
																	3072		3529	3749



