



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



2025-0512
Officer Involved Critical Incident - 294 Ira Avenue, Akron,
OH 44301, Summit County

Investigative Activity: OOCIC Video Presentation review
Involves: [REDACTED]
 [REDACTED] Officer Michael Thornton (W)
Activity Date: 04/30/2025
Activity Location: BCI Richfield
Authoring Agent: SA Jonathan Lieber

Narrative:

On Wednesday, April 30, 2025, Ohio Bureau of Criminal Investigation (BCI) Special Agent (SA) Jon Lieber (Lieber) received disks and documents from the Ohio Organized Crime Investigations Commission (OOCIC). SA Lieber had previously sent video recordings consisting of the body-worn camera (BWC) videos from Akron Police Department (APD) [REDACTED] and Michael Thornton (Thornton) to OOCIC. Additionally, the in-car camera of Ofc. Thornton as well as video obtained from the doorbell camera of a residence located at 315 Ira Avenue, Akron, OH 44301 was also sent to OOCIC. OOCIC was requested to perform various enhancements of the submitted video as detailed below.

SA Lieber reviewed the documents from OCIC. The documents were:

- 1. OOCIC Evidence Submission Form

This document was the submission sheet created to submit the video recordings to OOCIC. The OOCIC case number assigned was 25-00022.

- 2. OOCIC Chain of Custody Report

This document was the chain of custody for OCIC.

- 3. OOCIC Curriculum Vitae

This document was the curriculum vitae for OCIC Analyst David F. Loomis.

- 4. OOCIC Forensic Video Analysis Report

The report was authored by OOCIC Analyst David F. Loomis. The report stated that frame counters, audio waveforms, title slates, and timecode were added to the

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presentation. The presentation was duplicated for the creation of original and half-speed presentations.

SA Lieber reviewed the data disks created by OOCIC and noted the following:

The video presentations included the following videos:

 25-00022 Synchronized Presentation - Speed Views

 25-00022 Synchronized Presentation

The presentation began with ██████████ BWC at 09:08:21. Video was recorded prior to this time by ██████████ BWC as well as Thornton's BWC and in-car camera, However, it was not included in the OOCIC presentation. The video recorded prior to the start of the OOCIC presentation will be reviewed below first, followed by a review of the OOCIC presentation.

██████████ BWC

The video began at 09:07:15. At 09:07:35, ██████████ began to drive his cruiser. No sound could be heard until 09:07:45. At this time ██████████ radioed "chase. Uh, we're gonna be north on Lakeshore." At 09:07:52, radio traffic (not from ██████████) could be heard saying "Shots fired, shots fired" and "Shots fired, he just took two shots at us." At 09:07:59, ██████████ began to radio the direction of travel of the subject vehicle and that the subject turned eastbound onto Ira. The screenshot below, taken at 09:08:03, shows the viewing angle from ██████████ BWC up through the time that the OOCIC video presentation began.

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Thornton BWC

The video began at 09:08:09. No sound could be heard until 09:08:15. Thornton was driving his cruiser through the time that the OOCIC video presentation began [09:09:54]. The image below shows the viewing angle of Thornton's BWC. Screenshot taken at 09:09:12.



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Thornton in-car camera

The video began at 09:08:11. No sound could be heard until 09:08:13. At 09:09:52, Thornton turned onto Ira Avenue. The OCIC video presentation began at 09:09:53. The screenshot below was taken at 09:09:52.



25-00022 Synchronized Presentation

This presentation is 3 minutes and 56 seconds in duration. The videos are synced and play simultaneously.

At 09:08:26, [REDACTED] exited his cruiser and yelled. "Drop the fucking gun. Get down on the fucking ground." At 09:08:31 [REDACTED] radioed, "Alright he's got a gun in his hand. He's right in front of the house." Screenshot below was taken at 09:08:31. Note that Marcus Smith (Marcus) is not visible in the image.

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A total of three gunshots were heard at the following times 09:08:35, 09:08:36, and 09:08:38. It is believed that all three shots were fired by Marcus. The screenshot below shows the view from [REDACTED] BWC as the first shot was fired [09:08:35].



09:08:42, [REDACTED] radioed, "Alright, It's, It's a 21. He's shooting, He's gonna be taking off running." It should be noted that a 21 is the radio code for "Officer needs immediate assistance."

09:08:46, another officer radioed "He just took three more shots at us. He's on foot. Brown leather jacket, tan pants."

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At 09:09:01, [REDACTED] ran down Ira Avenue away from Marcus to the area where [REDACTED] had his cruiser parked.

09:09:20, [REDACTED] yelled, "Drop the gun buddy. Drop the gun buddy."

09:09:25, [REDACTED] fired his first shot. At 09:09:27, [REDACTED] fired a second shot. At 09:09:29 [REDACTED] fired a third shot. The screenshot below was taken from [REDACTED]'s BWC at the time [REDACTED] fired his first shot [09:09:25]. It should be noted that [REDACTED] BWC was not activated at this time.



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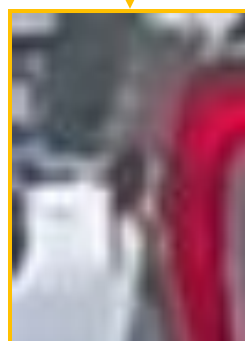


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The screenshot below was taken at the time [REDACTED] fired his third shot [09:09:29]. At this time Marcus could be seen in the distance.



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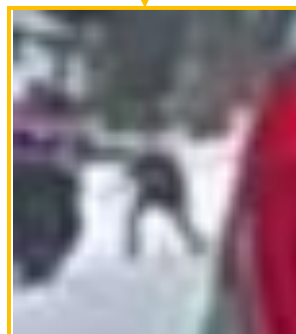


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The screenshot below was taken at 09:09:30 and showed Marcus beginning to fall to the ground.



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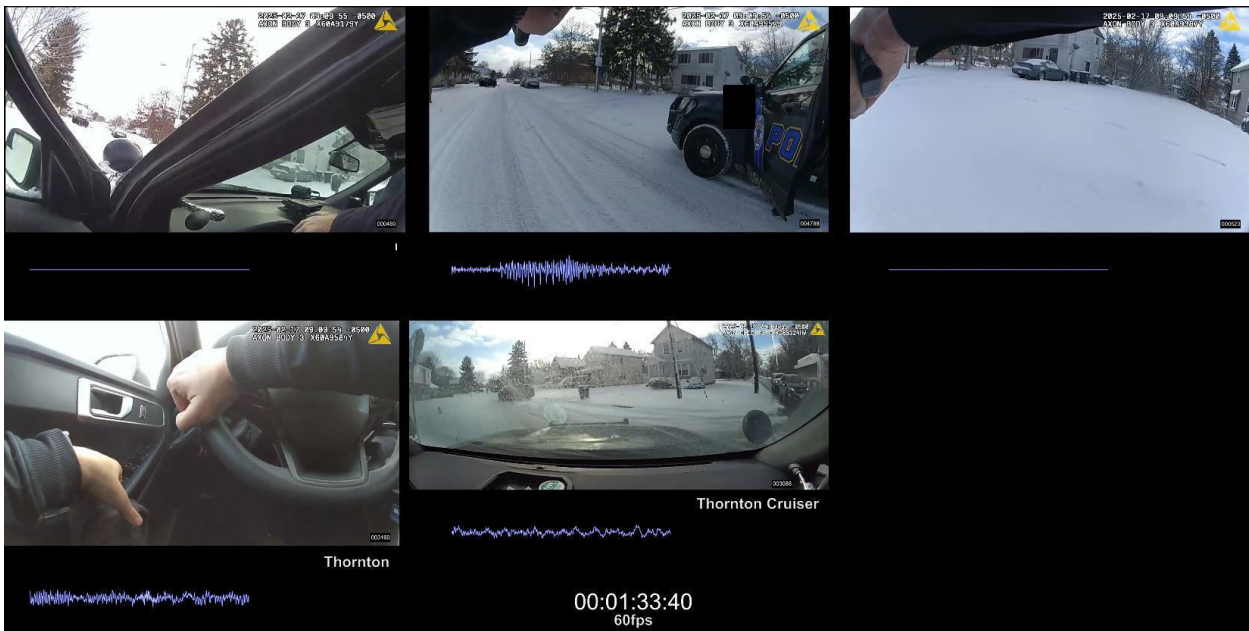


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At 09:09:36, an officer radioed that shots had been fired and that the subject was down. At 09:09:37, [REDACTED] BWC was activated. At 09:09:38, as [REDACTED] was arriving on scene, his BWC was activated. See screenshot below taken at 09:09:38.



At 09:09:54, [REDACTED] got into the driver seat of [REDACTED] cruiser. Also at this time, Thornton arrived on scene. See screenshot below.



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At 09:10:18, the officers had moved closer to Marcus. [REDACTED] and Thornton began to exit their vehicles while [REDACTED] were on foot. Screenshot below taken at 09:10:18.



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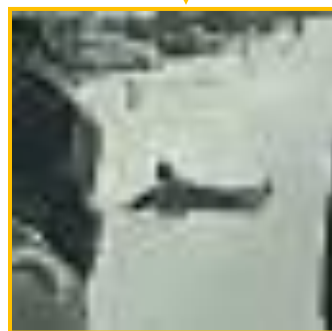


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At 09:10:20, [REDACTED] said, "Watch, hey! Look up, look up." Other officers yelled "Stay down" and "Get down." The screenshot below was taken at 09:10:20 from [REDACTED] BWC.



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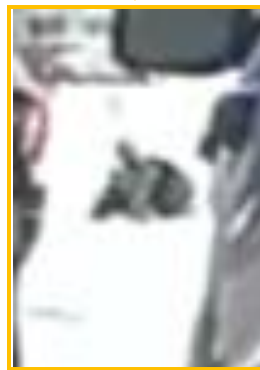


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The screenshot below was taken at 09:10:22 and appeared to show Marcus raising his upper body off of the ground.



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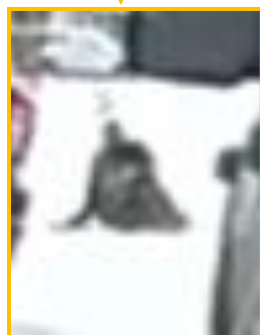
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Gunshots are heard each second from 09:10:23 - 09:10:26, and at the following second intervals: 29, 31, 32, 35, 37, 39, 40, 42, 46.

See screenshot below taken at 09:10:23.



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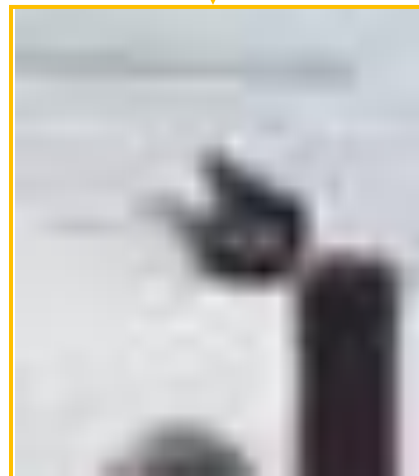


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At 09:10:27 (time counter on Ring doorbell video from 315 Ira Avenue) the video began to record.



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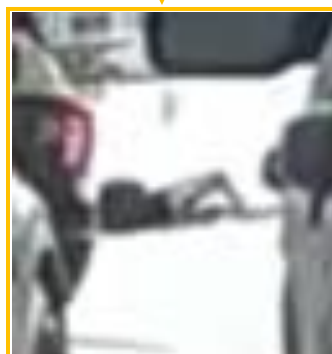
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At 09:10:28, an officer yelled, "Drop the fucking gun." Another officer yelled. "Drop the gun."

See screenshots below were taken at 09:10:30.



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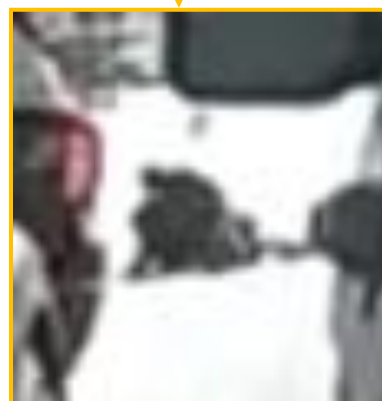


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At 09:10:34, Marcus appeared to lift his upper body off of the ground. See screenshots below.



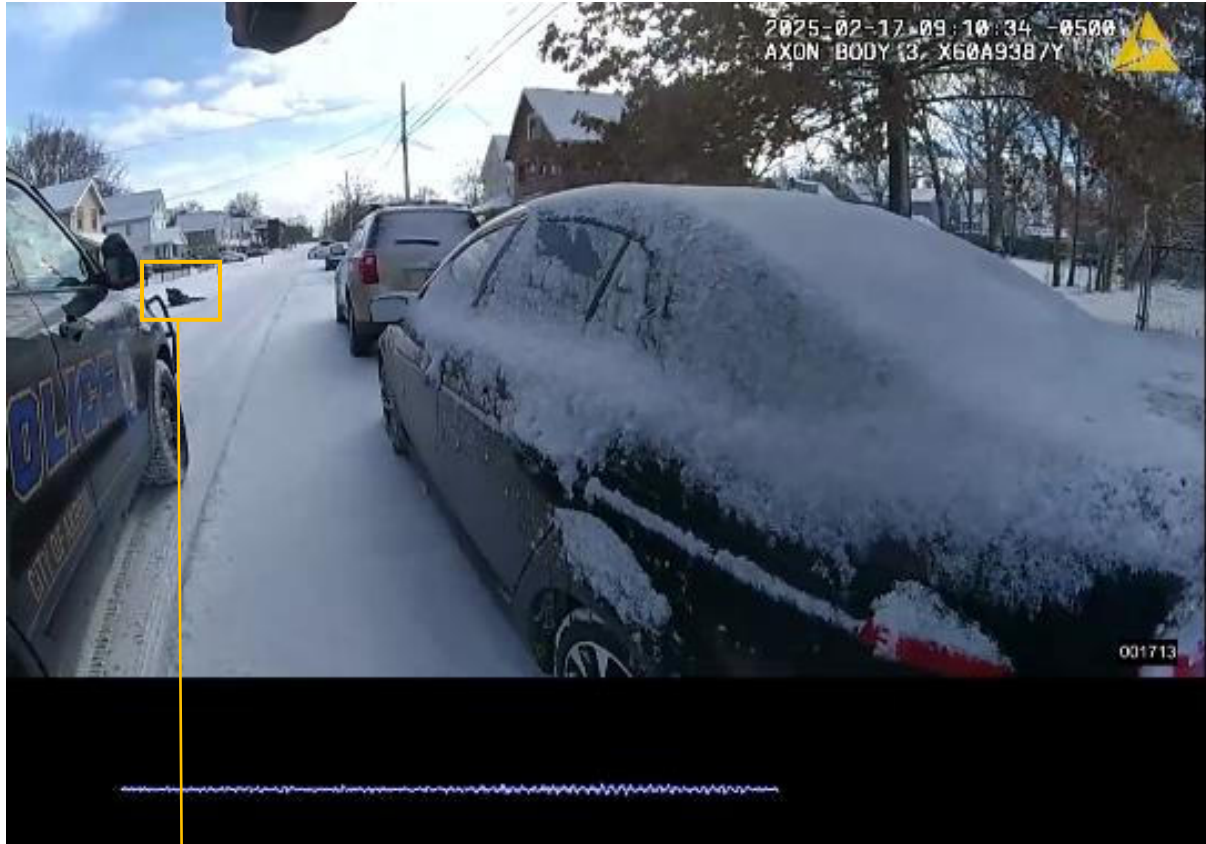
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The image below was taken at 09:10:32 (time on Ring camera). At this time the BWC timestamp was 09:10:34.



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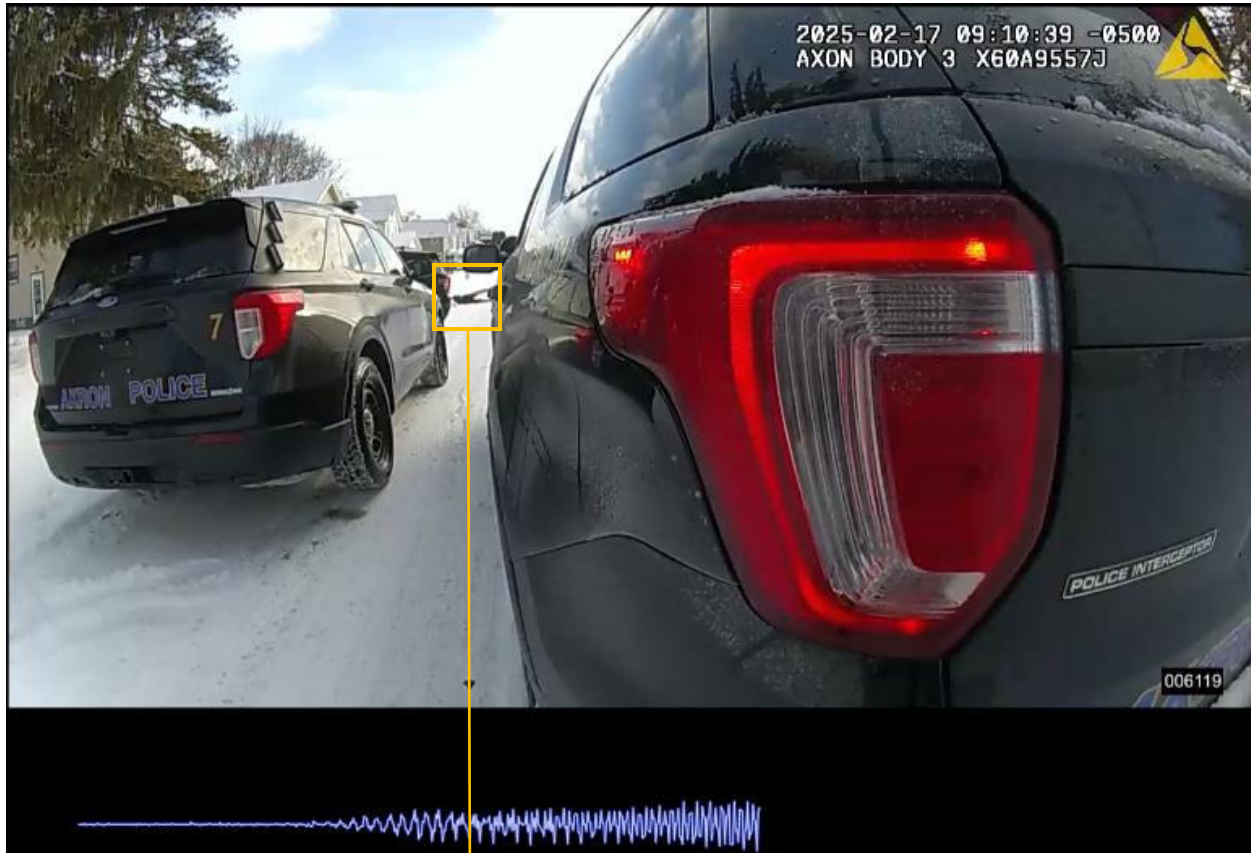
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At 09:10:37, an officer yelled, "Drop the gun." At 09:10:39, an officer yelled, "Drop the gun." See screenshots below taken at 09:10:39. Marcus can be seen on [REDACTED] BWCs as well as the Ring camera [09:10:37 on the Ring camera].



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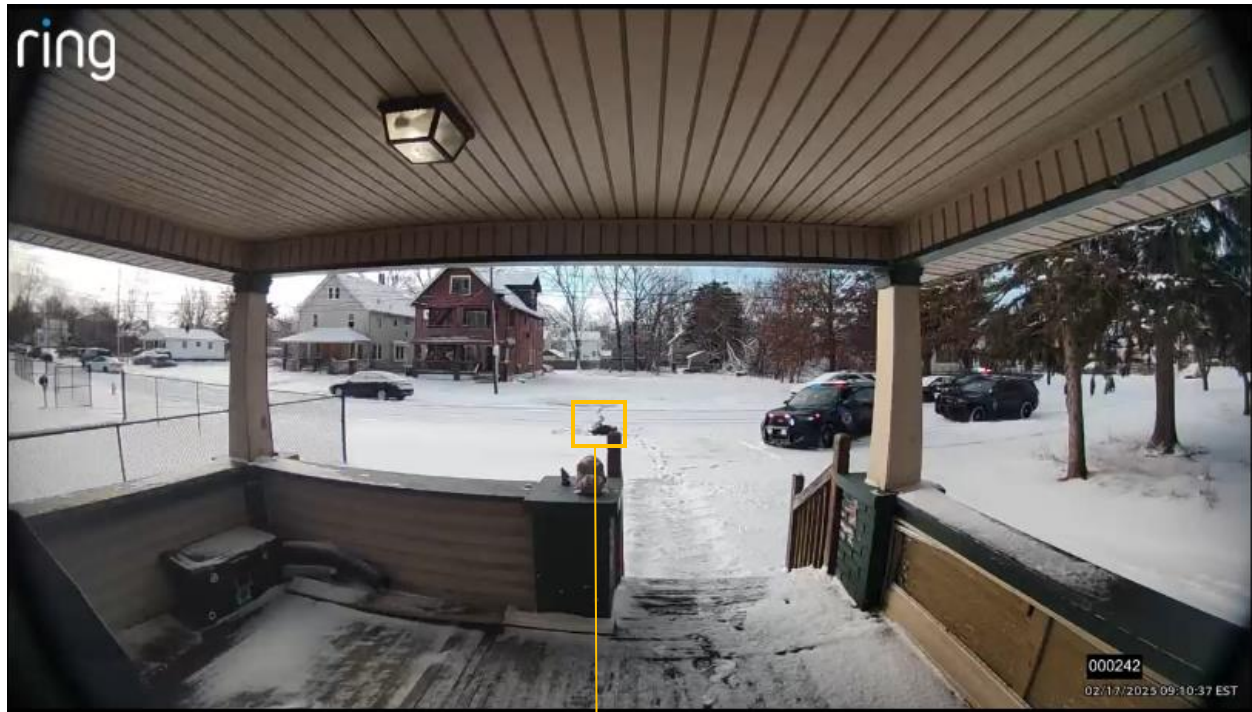
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At 09:10:40, [REDACTED] pistol appeared to recoil and smoke, consistent with the pistol being fired, appeared to discharge from the barrel. See screenshot below.



At 09:10:44, an officer yelled, "Hands, show us your hands"

At 09:10:46, an officer yelled, "Put your hands up. Put your hands up." Other officers yelled, "Hands up. Hands up." At 09:10:53, an officer yelled, "Put your fucking hands up." Other officers also yelled commands to Marcus. At 09:10:56, an officer yelled, "drop the gun."

The last shot appeared to be fired by [REDACTED] at 09:10:46. Marcus can be seen on [REDACTED] BWC as well as the Ring camera at that time. Screenshots from both cameras are below.

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At 09:10:53, [REDACTED] yelled, "He still has the fucking gun. Still in his hand."

At 09:11:01, [REDACTED] radioed, "Start EMS. He's still moving. Still armed. Start EMS. Somebody with a shield."

At 09:11:07, [REDACTED] yelled, "Watch your left hand, still looks like a gun's in his left hand." At 09:11:11, [REDACTED] yelled, "Drop the fucking gun." At 09:11:24, [REDACTED] yelled

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for a person to back up and to get back in their home. At 09:11:32, [REDACTED] yelled, "Yeah, he just shot at us. Get back inside." At 09:11:49, officers began to approach Marcus.

For a detailed review of the above videos after the officers approached Marcus, please refer to the following reports:

- 2025-04-09: Video review - Ofc. Michael Thornton
- 2025-04-11: Video review - [REDACTED]
- 2025-04-11: Video review - [REDACTED]
- 2025-04-13: Video review - [REDACTED]

ADDITIONAL FACTORS FOR EVALUATING THE VIDEO RECORDINGS

There are numerous other factors that need to be considered when reviewing and evaluating the videos and audio recordings of this incident. Those factors are:

- A.** Video recording devices record within the video and sound capabilities available, and they record objectively. Video recordings lack the history, perspective, and interest of the people involved. The positions, angles, obstacles, lighting, and distance from the incident are also factors that need serious consideration.
- B.** Video recording devices also record more information about a particular scene or incident than the person(s) involved in the incident can process during the critical incident. Video recording devices rarely record an event from the same perspective of the officer. It captures the action but not the perception, decision making, focus, or intent of the officer. Video recordings often miss tactile cues or other actions of a subject.
- C.** The speed of the 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.

The documents received from OOCIC were submitted to the electronic BCI case file and were attached to this report. The disks received from OOCIC were submitted to the

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physical BCI case file as Reference item N. In addition, a copy of the OOCIC disks was uploaded to Axon Justice as Reference item N. The images in this report are for demonstrative purposes only.

References:

N - OOCIC Work Product

Attachments:

1. 2025-05-05 OOCIC documents 25-00022

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Laboratory Evidence Submission				Date/Time Received: 03/14/2025 1:46 pm Friday				BCI Case Number: 25-00022							
Received By: Nissa Low Receiving Lab: OCIC - Ohio Organized Crime Investigations Com				Agency Case Number: 2025 - 0512											
New Case <input checked="" type="checkbox"/>		ADD'L (If checked, provide BCI Case No)				Case Type: Shooting Involving an Officer				Date of Offense: 02/17/2025		Location of Offense: Akron, Summit County		County of Submitting Agency: Summit County	
Subject(s): (First, MI, Last Name)			In Custody	Charged	Trial Date	Grand Jury	Arrest #	BCI #	Sex	DOB					
Marcus L. Smith			<input type="checkbox"/>	<input type="checkbox"/>					M						
Victim(s): (First, MI, Last Name)							State ID #	BCI #	Sex	DOB					
Submitting Agency Name/ORI: BCI / Richfield OHBCI0000							Investigating Officer Name: Jon Lieber								
							Investigating Officer Phone: (440) 258-2865								
							Investigating Officer Email: jonathan.lieber@ohioattorneygeneral.gov								
Mailing Address: 4055 Highlander Parkway Richfield, OH 44286							Submitting Officer: Jon Lieber								
							BCI Crime Scene Agent:		Crime Scene Case No:						

This item submission establishes an agreement for testing between the submitting customer and the BCI laboratory. The laboratory employs standardized methods to fulfill customer test requests. Specific method selection, application and sequence are at the discretion of the laboratory, unless otherwise directed by the customer. Investigative information obtained as a result of the laboratory testing may be disseminated to other law enforcement agencies for the administration of justice. The BCI laboratory may subcontract testing to meet operational needs. Subcontracted work will be performed by a competent subcontractor and that work will be clearly identified to the customer.

Prior to the commencement of work, please review the submission receipt to ensure the items submitted and laboratory testing requested are correct. Signature signifies acceptance of the agreement specified above and accuracy of the submission receipt to the best of the signatory's knowledge.

Completed Laboratory reports, Notarized Statements, and Statements of Qualification are available for download from the OHLEG portal (www.OHLEG.org).

Comments: Please see attached description.

Services Requested

Lab Item #	Dept. Item #	Description (Packaging Description, Item Type - Described as)	Chemistry Qualitative Analysis	Chemistry Quantitative Analysis	Firearms	DNA	GNR Gunshot Residue	Latent Prints	LINK	NIBIN	Operability	Questioned Document	Trace
1		Flash Drive/Jump Drive/Thumb Drive Described as: Black SanDisk 16GB USB Flash Drive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SHOULD THERE BE ANY CHANGE IN THE STATUS OF THIS CASE, INCLUDING TRIAL DATES, PLEASE CONTACT BCI IMMEDIATELY.

Ohio BCI Forensic Laboratory
Chain of Custody Report

Lab Case: 25-00022
Department Name: BCI / Richfield
Agency Case #: 2025 - 0512

Item # 1 Description : Flash Drive/Jump Drive/Thumb Drive Black SanDisk 16GB USB Flash Drive
Submitted to the laboratory on 3/14/2025 at 1:46 PM - By Jon Lieber BCI / Richfield

<u>Date</u>	<u>Time</u>	<u>Container</u>	<u>Custody Of</u>	<u>Location / Person</u>	<u>Transaction By</u>
03/14/2025	13:46		Clerical/Evidence	Nissa Low	Nissa Low
03/14/2025	13:49		Evidence Storage	Shelf A9	Nissa Low
04/07/2025	13:30		Analyst - London	David F. Loomis	Nissa Low
04/21/2025	8:58		Evidence Disposal	Returned to Agency via Federal Express	Nissa Low

Item # W.P. 1.1 Description : Envelope containing DVD - Data 3 DVDs.
Submitted to the laboratory on 4/21/2025 at 8:04 AM - By Jon Lieber BCI / Richfield

<u>Date</u>	<u>Time</u>	<u>Container</u>	<u>Custody Of</u>	<u>Location / Person</u>	<u>Transaction By</u>
04/21/2025	8:54		Clerical/Evidence	Nissa Low	Nissa Low
04/21/2025	8:58		Evidence Disposal	Returned to Agency via Federal Express	Nissa Low



Ohio Organized Crime Investigations Commission Forensic Video Analysis

Written Date: May 05, 2025

To: BCI / Richfield
4055 Highlander Parkway
Richfield, OH 44286

OCIC Case Number: 25-00022

Agency Case Number: 2025 - 0512

Type of Offense: Shooting Involving an Officer
Location of Offense: Akron, Summit County

On March 14th, 2025, Special Agent Jon Lieber of BCI submitted one flash drive for the purpose of forensic video analysis. Special Agent Lieber requested video presentations be created from video files contained on the flash drive. The item submitted will be referred to as ITEM ONE throughout the body of this report. The process, as it pertains to this case, is as follows:

- Inspect ITEM ONE to ascertain that no damage exists
- Generate and save a working copy of the contents of ITEM ONE
- Utilize software to create video presentations as requested
- Produce a data DVD of video presentations

On April 7th, 2025, ITEM ONE was checked out of the evidence room by Senior Analyst David Loomis.

ITEM ONE was a SanDisk Ultra 16GB flash drive with no label. ITEM ONE was inspected for damage and no damage was found. The contents of ITEM ONE were copied and verified via SHA256 hash using Quick Hash 3.0.4.

ITEM ONE contained six .mp4 video files:

Filename	Video	Audio	View
Ofc. [REDACTED] BWC.mp4	1280 x 720 H264	48kHz Stereo MP4A	Bodyworn
Ofc. [REDACTED] BWC.mp4	1280 x 720 H264	48kHz Stereo MP4A	Bodyworn
Ofc. [REDACTED] BWC.mp4	1280 x 720 H264	48kHz Stereo MP4A	Bodyworn
Ofc. Michael Thornton BWC.mp4	1280 x 720 H264	48kHz Stereo MP4A	Bodyworn
Ofc. Michael Thornton in-car camera.mp4	1344 x 540 H264	48kHz Stereo MP4A	Cruiser



Ohio Organized Crime Investigations Commission Forensic Video Analysis

Written Date: May 05, 2025

Ring doorbell - 315 Ira Avenue.mp4	1920 x 1080 H264	48kHz Mono MP4A	Doorbell
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The six .mp4 video files from ITEM ONE were imported into the Adobe Premiere CC 2025 video analysis software for review. A new timeline was created and the video files were synchronized based upon audio cues.

The Premiere video timeline was imported into the Adobe After Effects CC 2025 video analysis and compositing software for the creation of the video presentations. A new composition was created to show all six camera views. Frame counters, audio waveforms, and timecode were added to the composition. The composition was duplicated for the creation of the original and half-speed presentation. Title slates were added and the two video presentations were rendered out as universal .mp4 video files for demonstrative purposes.

The two video presentations were placed onto a data DVD as work product. A total of three copies of the DVD were created.

On April 21st, 2025, the three DVDs were released to evidence for shipping, along with ITEM ONE.

David F. Loomis
Senior Forensic Analyst
(614) 277-1000
David.Loomis@OhioAGO.gov



Matt S. Hilbert
Supervisor Approval

DAVID F. LOOMIS - CURRICULUM VITAE

The Ohio Organized Crime Investigations Commission
P.O. Box 968, Grove City, Ohio 43123
(614) 277-1000 / (614) 277-1010 fax / David.Loomis@OhioAGO.gov

Professional Experience

Senior Forensic Audio/Video Analyst

March 2019 – *Present*
Columbus, Ohio

The Ohio Organized Crime Investigations Commission
Office of the Ohio Attorney General

- Provides general supervision of the OOCIC Audio/Video laboratory
- Implements policy and procedures
- Reviews case files and lab testing practices
- Provides recommendations on training and equipment
- Assists in the hiring process of new Analysts
- Performs all other duties of Forensic Audio/Video Analyst (as listed below)

Forensic Audio/Video Analyst

August 2014 – March 2019
Columbus, Ohio

The Ohio Organized Crime Investigations Commission
Office of the Ohio Attorney General

- Performs forensic analysis of audio, video, photographic, and other evidence, whether analog or digital in nature, for investigation and court presentation
- Attends training, workshops, and seminars to maintain current working knowledge of trends and developments in the Forensic Audio/Video field
- Conducts testing and preparation of audio, video, and photographic evidence
- Clarification of evidentiary audio and video recordings
- Clarification of digital images
- Performs audio and video transcoding
- Forensic 2D and 3D animation
- Extraction of video from Digital Video Recorders
- Carves video data from various digital sources
- Duplication and digitization of audio and video recordings
- Repairs damaged audio and video tapes for evidentiary purposes
- Makes presentations to task force investigators and law enforcement agencies

Graphic Artist

April 2010 – June 2014
Pittsburgh, Pennsylvania

Educational Outfitters

- Created various designs for email marketing campaigns, customer logos, t-shirts, store signage, and fliers
- Prepared media for use in email marketing campaigns, various printing and production processes
- Responsible for installation and maintenance of design software packages
- Designed and digitized artwork for embroidery

Freelance Photographer / Videographer

Sept 2003 – April 2010
Denver, CO and Pittsburgh, PA

Self-Employed

- Family and portrait photography
- Digital photo editing and digital photo restoration

- Video recording, editing, and DVD presentations

Forensic Animation Intern

July 2003 – Sept 2003

Knott Laboratory

Denver, Colorado

- Assisted a team of animators and engineers to create accident reconstruction animations for legal proceedings
- 3D modeling, animation, compositing, and video editing
- Use of photogrammetry and camera matching to reconstruct scenes
- 3D cut-away views of mechanical processes

Lead Network Transport Planner

Nov 2000 – Nov 2001

Qwest Communications International, Inc.

Denver, Colorado

- Quarterly planning of nationwide wavelength services network (10 gigabit and 2.5 gigabit line system)
- Optimized the network plan using various equipment vendor and third-party software tools
- Calculated budgetary requirements for entire planned wavelength services network over various time periods
- Conducted studies of new nationwide network architectures, impacts of large customer deals, and potential fiber optic routes
- Utilized knowledge of various equipment interfaces (Nortel Preside / Ciena Wavewatcher) along with internal databases and the Microsoft Office suite to constantly improve processes, monitor planning progress, and analyze trends
- Tested and evaluated various vendor-specific and third party planning software
- Supported deployment planning of network transport technologies

Senior Network Transport Planner

June 1999 – Nov 2000

Qwest Communications international, Inc.

Denver, Colorado

- Assisted with development of and updates to quarterly SONET network plans
- Actively supported planning efforts concerning new, changes to, and life cycle management / retirement of currently deployed network transport technologies
- Supported deployment planning of newly installed network assets
- Involved with scenario analysis concerning plan assumption changes / timing
- Utilized knowledge of Visual Basic for Excel to streamline current network data extraction from several weeks by many planners to minutes by a solo planner
- Awarded Letter of Recognition from VP for outstanding work in streamlining operations

Space Communications Systems Controller

June 1995 – June 1999

United States Air Force

Schriever AFB, Colorado

22d Space Operations Squadron

50th Space Communications Squadron

- Responsible for operating and troubleshooting communication and computer resources valued at over \$440 million to support the Air Force Satellite Control Network (AFSCN)
- Directed and implemented fault isolation, testing, troubleshooting, and analysis of transmission links, including T1 through T3, to ensure proper operations
- Provided worldwide connectivity across seven Department of Defense space programs, NASA, and NOAA
- Maintained a 99% efficiency rating on over 4,000 satellite communications mission supports, directly contributing to work center's 93.3% success rate on satellite mission contacts
- Handpicked to assist contractors with implementation and test procedures on a \$7 million project to link new satellite operations center with resources located at Schriever Air Force Base

- Awarded Senior Airman Below the Zone (promoted to E-4 six months early)
- Awarded the National Defense Service Medal and Air Force Good Conduct Medal
- Decorated – Awarded the Air Force Achievement Medal for Meritorious Service

Education

Bachelor of Arts

Media Arts and Animation

*The Art Institute of Colorado
Denver, Colorado*

- Instruction in animation, video production, editing, and compositing, and audio production and editing
- 3.9 GPA
- Alpha Beta Kappa National Honor Society
- Portfolio Voted “Best Book” by AiC instructors at graduation

Journeyman

Communications, Computer Systems Operations

*USAF Technical Training School
Biloxi, Mississippi*

- Honor Graduate (98% average)

Undergraduate Studies

Fine Art, Liberal Arts, Mathematics

*Ohio University
Athens, Ohio*

Certifications

LEVA Certified Forensic Video Technician

June 2016 - Present

Training

LEVA Level 1 – Forensic Video Analysis and the Law (40 Hours)

April 2015

- Principles of CCTV Systems
- Non-Linear Editing
- Data Authentication and Integrity
- Video Compression
- Scientific Method
- Video and the Law
- Infrared Light

Issues of Bias in Forensic Science (8 Hours)

May 2015

- Defining Bias as it Applies to Scientific Fields
- Overview of Decision Making and How We Think
- Discussion of Methods to Counter-act Bias

Introduction to Forensic Audio Analysis (24 Hours)

September 2015

- Science and Physics of Sound
- Fundamentals of Recording and Playback Devices
- Audio Processing Techniques
- Critical Listening
- Best Practices

- Hands-on Audio Clarification
- LEVA Level 2 – Processing Digital Multimedia Evidence (40 Hours) June 2016
- Compression Theory
 - Digital Video Acquisition
 - Screen Capture Utilities
 - Video File Formats and Video Containers
 - Integrating Hashing into Workflow
 - Technical Report Writing
 - Legal Aspects of Digital Multimedia Evidence
 - TCP/IP Networking
 - Analytical Report Writing
- NW3C CI 100 – Identifying and Seizing Electronic Evidence (2.5 Hours) July 2016
- Identifying sources of electronic evidence
 - Preserving electronic evidence for analysis
 - Best practices for seizure of electronic evidence
- NW3C CS 100 – Introduction to Computer Networks (2.75 Hours) August 2016
- Networking overview
 - OSI Model
 - TCP/IP
- NW3C CI 102 – How Computers Work and Store Data (3 Hours) July 2018
- Hardware and storage configurations
 - Number systems (Decimal, Hexadecimal, Binary)
 - Partitioning drives
 - Identifying volumes
 - File systems
- U.S. Department of Homeland Security - Cyber Security Investigations (9 Hours) August 2018
- Overview of cybersecurity incident response and forensic analysis
 - Digital forensic concepts, forensic media preparation
 - Digital evidence collection
 - Triage process and analysis
 - Suspicious trace analysis
 - Data carving
- LEVA Level 3 – Video Contrast and Comparison (40 Hours) September 2018
- Philosophy and principles of video contrast and comparison
 - Scientific method
 - Class Characteristics vs Individual Characteristics
 - Effects of lighting, aspect ratio, resolution, and compression on video analysis
 - Analytical report writing
 - Types of bias in forensic video analysis and how to reduce them
- LEVA Courtroom Testimony for Expert Witnesses (24 Hours) May 2019
- Trial procedure

- Report writing techniques
- Effects of bias
- Moot court

iNput Ace Video Evidence Training Symposium (15 Hours)	June 2020
<ul style="list-style-type: none"> • Video Analysis with iNput Ace • Trends in video analysis • Issues with timing in video • Digital video evidence recovery 	
LEVA Level 4 – Advanced Forensic Video Analysis and the Law (40 Hours)	December 2020
<ul style="list-style-type: none"> • Advanced video analysis techniques • Creating demonstratives for court • Preparation for advanced certification 	
iNput Ace Video Evidence Training Symposium (12 Hours)	March 2021
<ul style="list-style-type: none"> • Video evidence narrative techniques • Issues with video timing • Video evidence workflow 	
Amped Authenticate Training (20 Hours)	June 2021
<ul style="list-style-type: none"> • Image and video authentication techniques 	
Amped FIVE Training (25 Hours)	December 2021
<ul style="list-style-type: none"> • Forensic Video Analysis theory • Workflow in Amped FIVE • Digital image and video clarification techniques 	
iNput Ace Video Evidence Training Symposium (12 Hours)	March 2022
<ul style="list-style-type: none"> • Video investigation training • Bias in video forensics • Video compression refresher 	

Court Testimony

State of Ohio vs Thaddeus Bumgardner	June 29th, 2016
Common Pleas Court of Meigs County	14 CR 117
<ul style="list-style-type: none"> • Expert Witness Qualification • Testified concerning forensic audio analysis of evidence in a felonious assault trial 	
State of Ohio vs Tony Cohen	December 1st, 2017
Common Pleas Court of Summit County	2016-11-3966
<ul style="list-style-type: none"> • Expert Witness Qualification • Testified concerning forensic video analysis of evidence in an aggravated robbery trial 	
State of Ohio vs Mark Mabry	October 16th, 2018
Common Pleas Court of Richland County	2018-CR-0255R

- Expert Witness Qualification
- Testified concerning deleted file recovery and forensic video analysis of evidence in an aggravated assault trial

State Medical Board of Ohio vs Atta Asef, D.P.M.

August 21st, 2019

State Medical Board of Ohio

18-CRF-0038

- Expert Witness Qualification
- Testified concerning video authenticity in a State Medical Board adjudication hearing

State of Ohio vs Warriayre Armond Roundtree

December 11th, 2019

Franklin County Common Pleas Court

18-CR-01669

- Expert Witness Qualification
- Testified concerning forensic video analysis of evidence in an aggravated murder trial

State of Ohio vs Andrew Kirk Mitchell

April 7th, 2022

Franklin County Common Pleas Court

19-CR-01662

- Expert Witness Qualification
- Testified concerning forensic video analysis of evidence in a murder trial

State of Ohio vs Andrew Kirk Mitchell (Retrial)

April 13th, 2023

Franklin County Common Pleas Court

19-CR-01662

- Expert Witness Qualification
- Testified concerning forensic video analysis of evidence in a murder trial

State of Ohio vs Bria Kaye-Paige Henslee

May 17th, 2023

Franklin County Common Pleas Court

21-CR-01524

- Expert Witness Qualification
- Testified concerning forensic video analysis of evidence in a murder and assault trial

State of Ohio vs Tylan Chance Sims

June 6th, 2023

Franklin County Common Pleas Court

21-CR-00595

- Expert Witness Qualification
- Testified concerning forensic video analysis of evidence in a murder and felonious assault trial

Professional Memberships

Law Enforcement and Emergency Services Video Association

August 2014 – Present

High Technology Crime Investigation Association

August 2018 - Present