



Zone Software



FARO[®]



Analyze, Diagram, & Reconstruct

Crime, Crash, and Fire Scenes that Generate Outstanding Courtroom Presentations



For public safety professionals, analyzing, diagramming and reconstructing a scene—be it crime, crash, fire, or pre-incident planning—requires the most advanced, purpose-built software. Hardware alone is not enough.

The FARO® Zone Software product portfolio includes **Zone 3D Expert Plus**, featuring integrated point-cloud registration, along with upgraded **Zone 3D Expert** and **Zone 2D**.

Equipped with these solutions, police officers, crime scene investigators, crash reconstructionists, fire departments, security specialists, and legal teams can complete their investigations faster and generate superior courtroom deliverables.



Forensic Scene Investigation

Crime scene investigators can reconstruct incidents with validated forensic tools, enabling precise analysis of blood spatter, bullet trajectories, and scene evidence.

Crash reconstructionists rely on its advanced analysis capabilities to create accurate diagrams, realistic animations, and physics-based reconstructions for a comprehensive understanding of collisions.



Pre-Incident Planning

Use aerial imagery from Google, Bing, EagleView, or drone data to create easy-to-read pre-incident and threat assessment diagrams.

Add 2D floorplans or architectural diagrams to show doors, stairs, elevators, control panels, hazardous materials, etc. Export and attach to your dispatch or pre-planning system.



Crash Report Diagramming

Zone 2D creates compelling crash scene diagrams like those attached to law enforcement crash reports.

Save the diagram in the desired format, size, and location for your reporting system.

FARO Zone: Scalable Software for Every Scene—From Basic 2D Diagrams to Advanced 3D Analysis

“Zone is just right for my needs as an independent collision reconstructionist. It is **intuitive** and yet **comprehensive** in the features that it offers. ”

John Rusted,
Collision Investigation Consultant



FARO Zone 2D is the ideal software to create 2D crash and crime report diagrams, along with detailed, pre-incident plans—information firefighters and other first responders value as they make critical on-scene decisions.



Zone 3D Expert introduces many new powerful features to the existing offering. These features include a Workflow Center, Evidence Marker Legend tool, Report Center, density-based ortho images, sun calculator, FotoPoints enhancements with ground control point scaling, and gltf file importation.



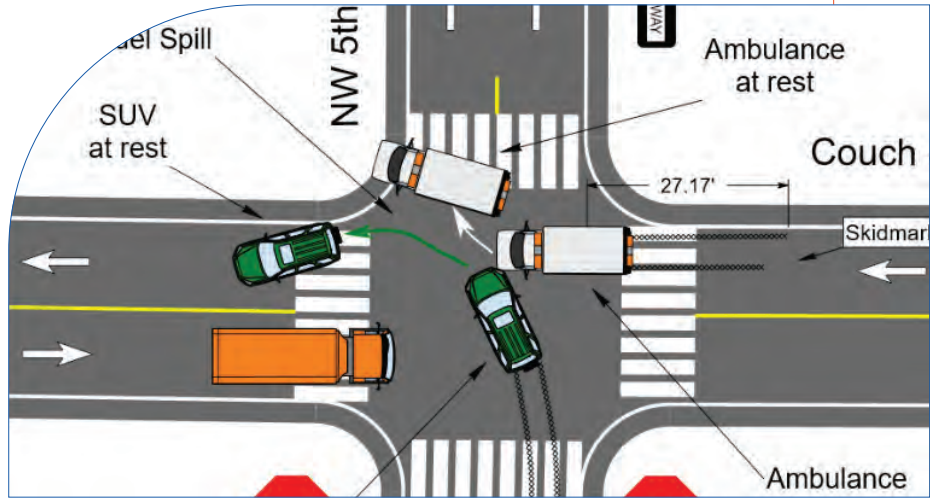
Zone 3D Expert Plus registers point cloud data directly from FARO terrestrial laser scanners, like the Focus Premium, Premium Max, and Core scanners, no additional software required. Designed for small to medium-sized scanning tasks, it's a complete field to finish, data agnostic solution that offers a streamlined approach to working with FARO laser scanner point cloud data.



Explore the features listed below that are available in **Zone 2D**, **Zone 3D Expert**, and **Zone 3D Expert Plus**.

2D Diagrams

Illustrate skid marks, vehicle positions, impact points, bullet paths, evidence locations, and scene layouts in simple, courtroom-friendly visuals



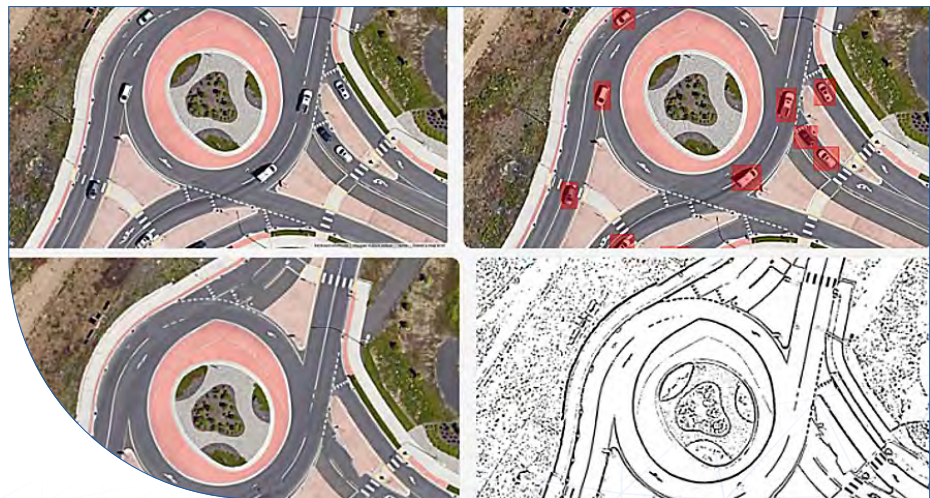
Zone2Go

Export 3D scan projects into a standalone, self-contained viewer that can be shared without requiring FARO Zone or internet connectivity



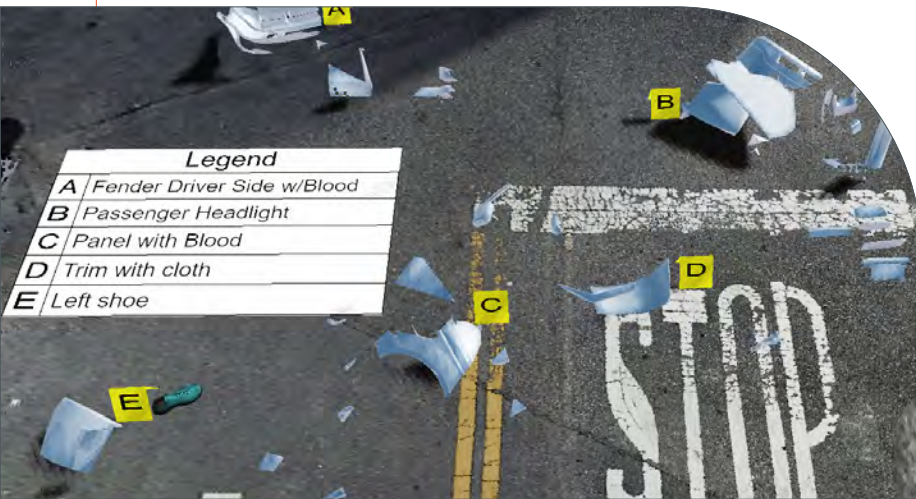
Satellite Image A.I. Vehicle Detection and Clean-Out

Use A.I. functionality to assist in cleaning out vehicles in any Google, Bing, or aerial photo



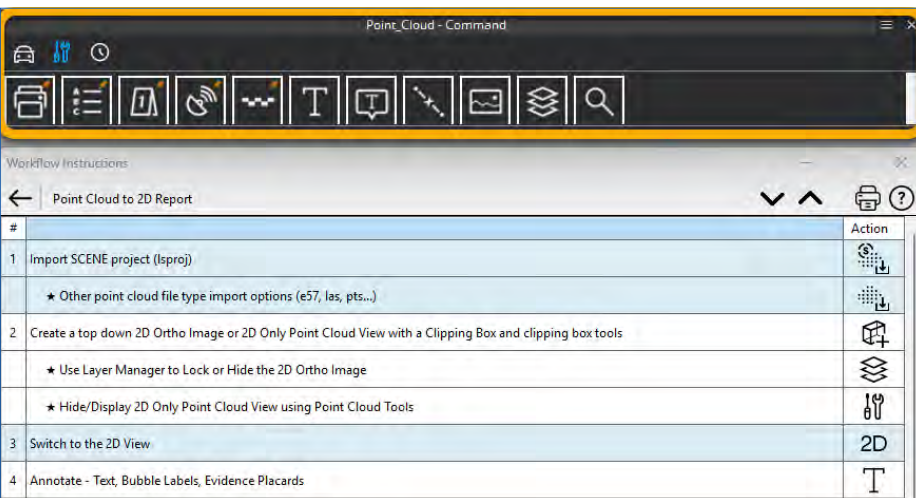
“Zone’s optimization ensures that even complex scenes remain **accessible** and **responsive**.”

Bryon O’Neil,
Criminalist



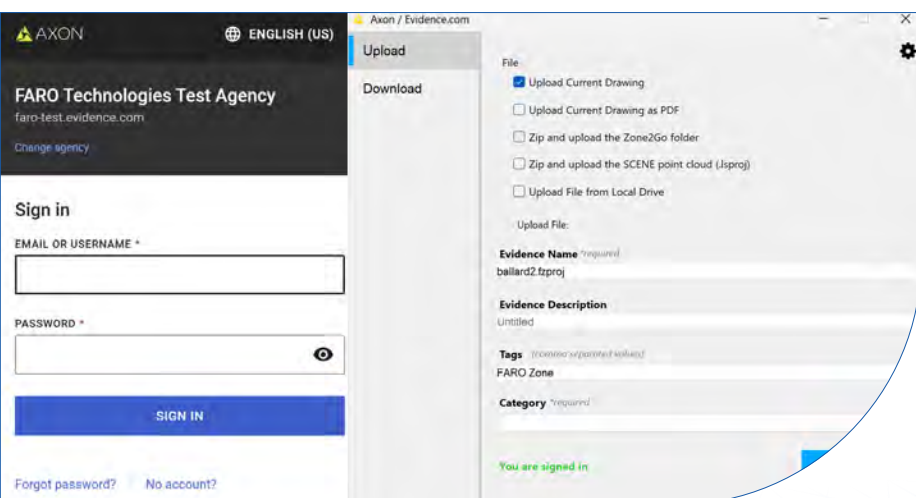
Legend Tool for Evidence Markers

Create a legend from all evidence markers, showing the placard titles and descriptions



Workflow and Favorites Productivity Tools

Access and follow common step-by-step workflows increasing efficiency and building knowledge retention



Axon 2.0 Evidence.com Login System

Connect to Axon's Evidence.com to upload and download your drawings and projects directly to a secure account, simplifying data transfer while reducing errors



Access premium features available exclusively in **Zone 3D Expert** and **Zone 3D Expert Plus**.

3D Courtroom Ready Deliverables

Present accurate, compelling 2D and 3D diagrams, along with 3D fly-thru and walk-thru video



Animations

Visual reconstructions to explain complex events, evidence, or scenarios to a judge and jury



Effective Reality (360 Panoramic Animations) & VR

Turn Zone animations into a 360° panoramic animation, enabling users to look in any direction



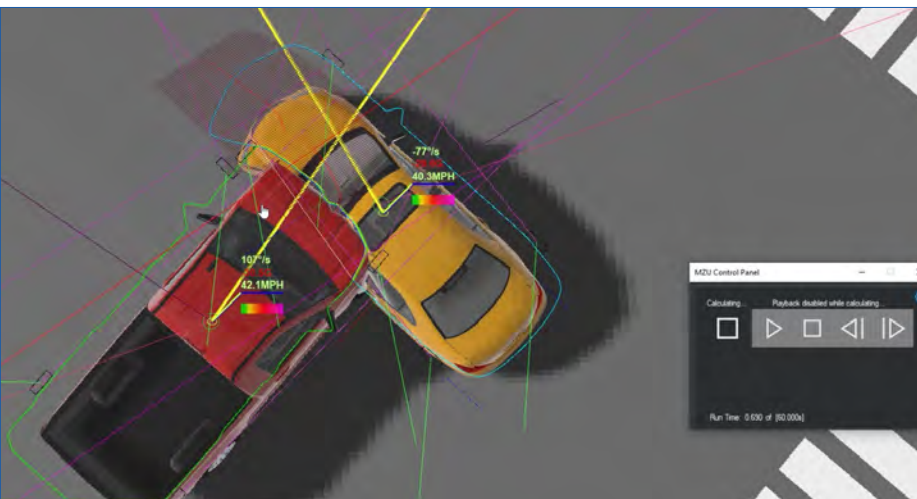
“FARO Zone 3D is a vital tool in my work. Without it, creating **detailed and scientifically accurate crash reconstructions** would be significantly more time-consuming and visually ineffective.”

Bobby Jones,
Crash and Crime Scene Reconstructionist



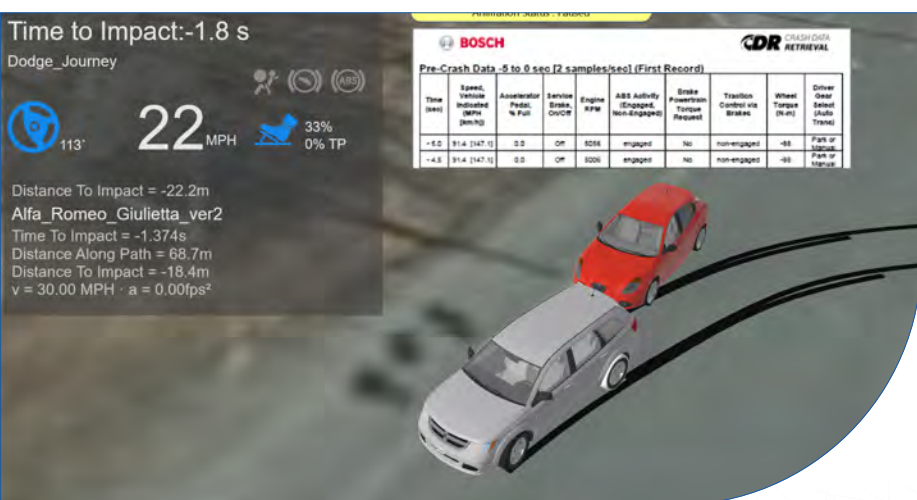
Photogrammetry & Videogrammetry - FotoPoints

Use FotoPoints to convert drone/ phone/camera images and videos to 3D data



MassZone Collision Prediction

Create animations predicting crashes and their effects, such as the paths of vehicles, tire marks, and damage



Crash Analysis Tools (Crash Power Tools)

Convert EDR data into an animation, perform momentum analysis, conduct crush analysis, calculate critical speed from yaw, perform skid analysis, and generate time/distance reports



"I truly appreciate how FARO Zone continually **develops and improves** their program. Their support is also excellent."

John McManus,
PE, Consulting Engineering Services

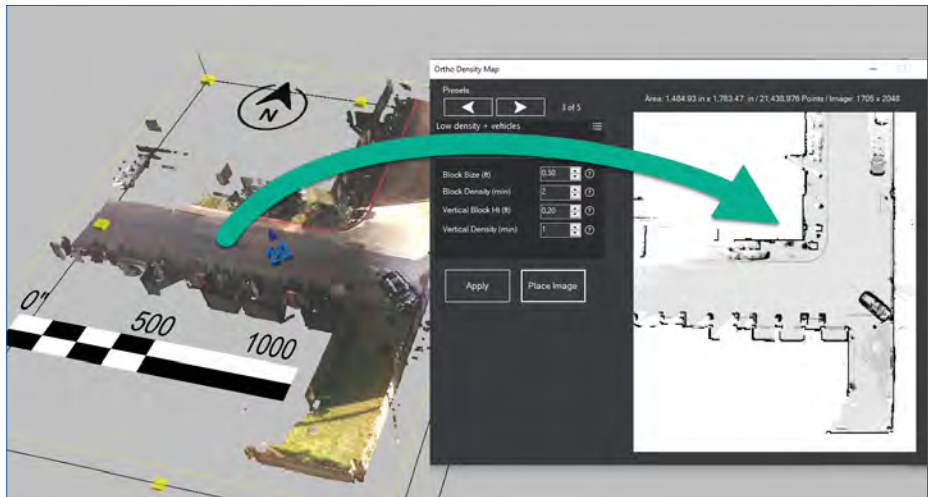
Crime Scene Analysis Tools (Crime Power Tools)

Perform bullet trajectory analysis, bloodstain pattern analysis, and create witness viewpoints to visualize perspectives within the scene



Ortho Image & Density-based Ortho Image

Create an ortho image outline of point cloud data based on the density of points that are in line vertically, e.g. the outline of a building, floorplan or vehicle



Environmental Tools

Visualize sun angles, shadows, weather conditions, light levels, and ground cover to enhance crash and crime scene reconstructions. The new Sun Calculator precisely positions the sun based on date and time





Point Cloud Tools

Import and merge point cloud data from multiple sources, including laser scanners, drones, smartphone LiDAR (like SiteScape) and more

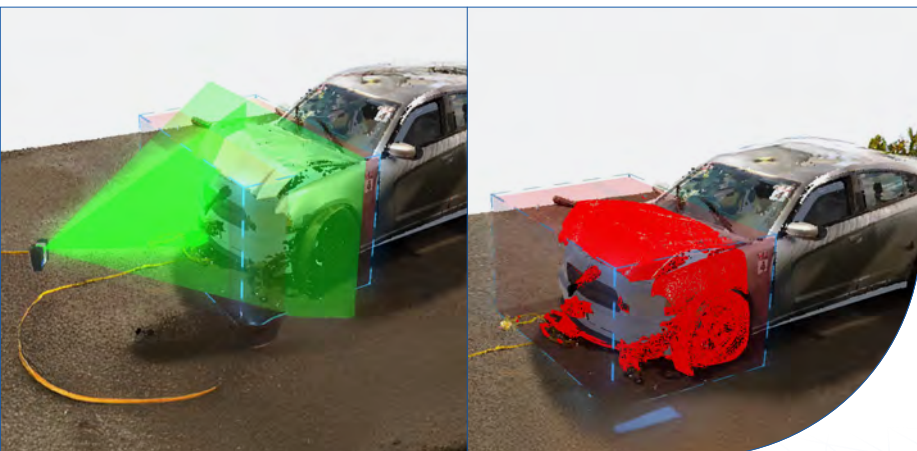


Unlock the most advanced capabilities with features available only in **Zone 3D Expert Plus**.



Point Cloud Registration

An all-in-one software solution for point cloud registration with registration report and clean-up tools



3D Crush

Measure vehicle deformation and crush volume by comparing a damaged vehicle's point cloud to an undamaged reference model

Software Comparison



Feature	Zone 2D	Zone 3D Expert	Zone 3D Expert Plus
2D Diagrams	✓	✓	✓
Zone2Go	✓	✓	✓
Satellite Image A.I. Vehicle Detection & Clean-Out	✓	✓	✓
Legend Tool for Evidence Markers	✓	✓	✓
Workflow & Favorites Productivity Tools	✓	✓	✓
Axon 2.0 Evidence.com Login System	✓	✓	✓
Vehicle Specs Database	✓	✓	✓
Over 8,000 2D Symbols & 3D Models	✓	✓	✓
Total Station & Coordinate Data Table Import	✓	✓	✓
3D Courtroom Ready Deliverables	—	✓	✓
▶ 3D Diagrams	—	✓	✓
▶ 3D Fly-thru and Walk-thru Videos	—	✓	✓
▶ Animations	—	✓	✓
▶ Effective Reality (360 Panoramic Animations) & VR	—	✓	✓
Photogrammetry & Videogrammetry - FotoPoints (convert drone/phone/camera images and videos to 3D data)	—	✓	✓
MassZone Collision Prediction and Animation	—	✓	✓
Crash Analysis Tools (Crash Power Tools)	—	✓	✓
▶ Convert Event Data Recorder (EDR) data into an animation	—	✓	✓
▶ Momentum Analysis Tools	—	✓	✓
▶ Crush Analysis	—	✓	✓
▶ Skid Analysis	—	✓	✓
▶ Critical Speed From Yaw	—	✓	✓
▶ Time/Distance Reports From Animations	—	✓	✓
Crime Scene Analysis Tools (Crime Power Tools)	—	✓	✓
▶ Bullet Trajectory	—	✓	✓
▶ Bloodstain Pattern Analysis	—	✓	✓
▶ Witness Viewpoints	—	✓	✓
Ortho Image & Density-based Ortho Image	—	✓	✓
Environmental Tools Realistic lighting, weather, and environmental effects	—	✓	✓
Point Cloud Tools	—	✓	✓
▶ Point Cloud Import From Various Sources (laser scanners, drone, phone LiDAR like SiteScape, and more)	—	✓	✓
▶ Merge Point Clouds From Multiple Sources	—	✓	✓
Point Cloud Registration with registration report and clean up	—	—	✓
3D Crush Volumetric Crush Analysis	—	—	✓

Specifications

System Requirements

Recommended	Zone 2D	Zone 3D Expert	Zone 3D Expert Plus
Operating System	Microsoft Windows 10/11 (64Bit)	Microsoft Windows 10/11 (64Bit)	Microsoft Windows 10/11 (64Bit)
Processor	Intel i5 or equivalent	Intel i7 or equivalent	Intel i9 or equivalent
RAM	4 GB	64 GB+	64 GB+
Hard Drive	8GB for installation 256GB free for operation	12GB for installation and 1TB+ on SSD free for processing of images/ point cloud data	12GB for installation and 1TB+ on SSD free for processing of images/ point cloud data
Graphics Card	Direct 11 compatible graphics card, such as an NVIDIA® Quadro 2000, GeForce 400+, RadeonHD4000+, or better	GeForce GTX 1650 or better; If tiling large images 8GB+ video RAM minimum	GeForce GTX 1650 or better; If tiling large images 8GB+ video RAM minimum NOTE: The FotoPoints feature requires an NVIDIA graphics card that support CUDA with compute capability 3.0 and higher. To make sure your GPU is supported, see the list of NVIDIA graphicscard that support CUDA
VR Requirements	—	Oculus Rift or HTC Vive plus ports required by headset	Oculus Rift or HTC Vive plus ports required by headset

Technical Specifications

Hardware	Minimum*	Recommended	High Performance (VR)
Processor	Intel i5 or equivalent	Intel i7 or equivalent	Intel i9 or equivalent
RAM	16GB	64GB	128GB
Hard Drive	1TB	1TB+ SSD	2TB+ SSD
Graphics Card	GTX 1650 Quadra 2000	GeForce RTX 2060+ Quadra RTX 2000+	GeForce RTX 3070+ Quadra RTX 4000+

*Graphics card manufacturers are always changing their naming schemes. When in doubt reach out. *Virtual Machine/Remote Desktop setups are NOT supported

Supported NVIDIA Graphics Cards and Drivers

NVIDIA Graphics Drivers	Win11 x 64	Win 10 x 64
4000, 5000, 6000 and 8000	551.52	
P6000, P5000, P4000, P2000, P2200 and P5000		
M520, M6000, M5000, M4000, M2000 and M2200		
K5200, K4200, K2200, K620 and K420		
K5000, K4000, K2000 and K6000		

Supported Languages

Chinese | English | French | German | Italian | Japanese | Portuguese | Spanish

Supported File Formats

Vendor	File Type	Extensions
Autodesk	FBX	fbx
Wavefront	OBJ	OBJ
Autodesk	DXF/DWG	dxf/dwg 2018 formats (up to version 2025)
—	e57	e57
—	PTS	PTS
Kronos Group	GLTF	GLTF
FARO - CAD Zone	Diagrams	czd
FARO - ARAS	Diagram	Ahd, arscene, blz
—	LAS/LAZ	LAS/LAZ
FARO	LSProj	LSProj
FARO CDT	Coordinate	data; csv, txt, xyz.....multiple

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