Precision Laser & Instrument, Inc.
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Forensic Mapping Applications

Traffic Collision

For traffic collision investigations, forensic mapping solutions can provide an efficient method of scene/vehicle evidence documentation. Data once measured by hand can now be collected with greater accuracy and precision.

Vehicle Speeds • Collision Angles • Damage Analysis • Time/Distance Relationships • Video Analysis • Crush Deformation • Field-of-View Vehicle/Pedestrian Movement • Scene Dimensions

Crime Scene

Forensic mapping not only documents the scene, but reveals relationships between pieces of evidence and allows investigators to examine the scene from different perspectives.

Blood Spatter Documentation • Scene Diagrams/Dimensions Tread/Footwear Impressions (3D) • Evidence Locations & Labeling Suspect/Victim Movement • Evidence Archiving (3D)

Shooting Reconstruction

When a shooting reconstruction is needed, forensic mapping can provide investigators with a variety of useful information concerning each shot and the circumstances surrounding it.

Horizontal/Vertical Flight Paths • Ricochet Angles • Shot Origin Shooter Movement • Vehicle-Related Analysis • Courtroom Exhibits Evidence Locations & Labeling • Victim Wound Documentation (3D)

Post-Blast / Arson

Once incorporated into scene processing protocols, forensic mapping efforts can easily handle the evidence documentation on both horizontal and vertical surfaces. The devices are well-suited for the scene size and conditions.

Evidence Locations and Labeling • Blast Pattern/Debris Analysis Debris Trajectories and Mapping • Victim Documentation Trace Evidence (DNA) Mapping • Evidence Archiving (3D)

Forensic Mapping Applications

Aircraft / Mass-Transit

Investigations involving aircraft and other mass-transit incidents benefit from the detail and range that forensic mapping provides. Debris locations within the crash site – or miles away – can be documented with the same accuracy.

Evidence Locations • Victim Identification/Seating • Sequence of Events
Structure Failure/Damage Analysis • Scene Dimensions/Topography
Vehicle Movement & Speed • Evidence Archiving (3D)

Large-Scale Incidents

From active shooter incidents to building collapses, forensic mapping can assist investigators, first responders, and victim recovery personnel. Large mass-casualty scenes can now be accurately documented with significant detail.

Victim Documentation • Suspect Movement • Scene Detail
Multi-Agency Participation • Evidence Documentation/Correlation

Outdoor Context

Forensic mapping methods can provide investigators a way of documenting difficult scenes not easily completed by manual means. Scenes involving heavily wooded areas, open fields, or clandestine graves are easily documented and referenced to other landmarks (roadways/structures).

Forensic Archaeology Recovery • Evidence/Victim Documentation
Topographic and GIS Applications

Forensic Mapping Devices & Training

Precision Laser & Instrument, Inc., is an authorized *Trimble Distribution Partner* who specializes in the sale, support, and service of the entire **Trimble Forensics** mapping platform.

On-site trainings for all forensic mapping devices, software, and applications are available:

- Upon equipment/software purchase or upgrade.
- For agency/unit in-service training, refreshers, or to enhance existing training exercises.

To learn more, visit**: www.laserinst.com/forensics**

Trimble
Trimble Forensics

Trimble X7 Laser Scanner

Trimble SX12 Scanning Total Station

Trimble R12i/R4sLE GNSS Receiver

Trimble S7/S5 Robotic Total Station

Trimble Capture-Reveal-Realworks Software