Your most reliable expert witness

A pickup has collided with an SUV while making a left turn at a busy highway intersection. There is a fatality as well as serious injuries to some of the passengers. And while both vehicles are heavily damaged, it’s not immediately obvious which driver is at fault. It’s also the evening rush hour, so it’s important to clear the scene quickly and get traffic moving again.

Police forces face scenes like this every day—often several times a day. Now you can collect data at the scene with greater speed, accuracy and safety than ever before. The Nikon® Automated Investigation Measurement System (AIMS), from Tripod Data Systems™, gives you reliable data to back up visual evidence from traffic accidents, as well as crime scenes, natural disasters and other events. Complete with a Nikon total station with built-in data collection software and AIMS® mapping software for your PC, plus the accessories necessary to get the job done, AIMS is your most reliable expert witness.

AIMS improves speed, accuracy and safety several ways. You can:

- Measure data points in a fraction of the time required for conventional tape or other manual methods
- Record data accurate to 0.1”, compared to far less accurate cloth, steel tape or even laser measuring systems
- Work from a safe location—away from traffic, debris or other hazards
- Resume normal traffic quickly
- Prepare a detailed drawing of the scene, to scale, in just seconds with easy-to-use software
Collect and reconstruct accurate accident or crime scene data

Step 1: Collect your data
AIMS gives you a faster, safer method to collect accident or crime scene data more accurately. Instead of a measuring tape or wheel, you measure points using a Nikon total station.

Simply set up the total station in a safe, convenient location where you can observe the entire scene away from traffic and other hazards. Aim the total station at an evidence item such as a vehicle, street sign, tree or skid mark, then push a button. The instrument assigns a built-in code identifying the evidence item, measures the direction and distance and records this information. All with a single key press. You can also measure the edge of pavement and curves to get accurate street dimensions.

Follow the same process for all your evidence points, and you're done—usually in less than half the time it would take to measure everything manually.

Step 2: Download to your PC
AIMS saves the direction and distance measurements for all your evidence points to the total station’s internal memory. And it’s easy to transfer the data to your PC. You can even download to your laptop while you’re still at the scene, to ensure you measured every item. Connect the cable that comes with your total station to your PC’s RS-232 port, and all your data transfers in seconds.

Step 3: Create an accurate, courtroom-ready scale map, in minutes
AIMS saves time at the scene, but you'll really be amazed at how much time you save back at the office with AIMSLT mapping software. This Windows-compatible program interprets all your data points to instantly create a detailed drawing, to scale. It generates linework and assigns the reference code for each point automatically. And because AIMSLT stores data in three dimensions, you can even create 3-D maps of the scene.

You can also customize your drawings quickly and easily using drop-down menus. You can apply symbols to specific evidence points such as cars, trucks, trees or signs—and even create your own symbols. You can label items, display street dimensions and even add hill elevations or other topographical data. In just a few minutes you can produce a professional-quality, detailed map of the scene that would take hours to create by hand.
Proven hardware + proven software

AIMS® LT PC software was developed by the makers of Crash Zone and Crime Zone, the first mapping software designed especially for law enforcement applications. In fact, AIMS® LT includes the complete Crash Zone product for all your mapping and diagramming needs. For more than a decade, Crash Zone has been the accident reconstruction drawing program of choice for those who require functionality, precision and ease of use. So with the AIMS system, you get faster, safer and more accurate data collection, plus proven, easy-to-use mapping capabilities.

Determine what happened

3-D mapping means you can view the scene from any angle or line of sight, helping you determine exactly what happened, quickly and accurately.

Customized mapping

AIMS® LT lets you customize your 3-D map to include symbols, line types, text and dimensions. You can create a professional-quality map in minutes.

One-click 3-D

AIMS® stores your data in three dimensions so you can convert your 2-D sketch of the accident scene into an accurate 3-D map with the click of a button.
**AIMS Features**

**FILE MANAGEMENT FUNCTIONS**
Includes all expected functions (New, Open, Save, etc.)
- Insert images into diagrams
- Import coordinate files and create diagrams
- Print diagrams to scale
- Others

**SCENE MEASUREMENT DATA FUNCTIONS**
- Download measured data from total station to PC
- Open existing data file to resume work
- Edit recorded data to correct any mistakes
- Draw a plot of measured points
- Draw scene diagrams
- Linework drawn automatically
- Symbols for evidence items placed automatically
- Edit existing and create new map codes
- Print reports on measurement data
- Upload coordinates from PC to total station for scenes with frequent accidents

**DRAWING FUNCTIONS**
Includes all expected functions (Edit, Draw, View, Snaps, etc.)
- Multiple ways to draw arcs, circles, rectangles, etc.
- Hatch/Fill — 50+ patterns available
- Symbols — 4,000+ crash and crime scene symbols
- Line types — 50+ custom line types for accident and crime scenes
- Scaled border or title block templates for diagrams
- North arrow symbols
- Bar scale symbols
- Standard text and dimensioning functions
- Leaders
- Evidence labels
- Many others

**3-D FUNCTIONS**
- Convert 2-D diagrams to 3-D models
- 3-D models are complete with 3-D symbols, line types, text and dimensions
- View scene from any angle
- Display 3-D surfaces
- Align 3-D symbols to surfaces
- Generate surface profiles
- Display line of sight or trajectories, etc.

**OPTIONAL/REPLACEMENT ACCESSORIES**
- Additional total station batteries
- Bipods
- Prism systems
- Prism poles
- Reflector sheet target
- Reflector sheets (adhesive)
- Tripods
- Tubular compass

*AIMS* with Crash Zone features symbols and line types customized to crash and crime scenes, including vehicles, traffic control, signs, landscape, posed bodies, weapons, landmarks, animals, furniture, evidence, lane lines, highway dividers, railroad tracks, fences, multiple skid marks, gouges, footprints, guard rails and many more.

**FILE MANAGEMENT FUNCTIONS**

**SCENE MEASUREMENT DATA FUNCTIONS**

**DRAWING FUNCTIONS**

**3-D FUNCTIONS**

**OPTIONAL/REPLACEMENT ACCESSORIES**

**Fast setup, compact storage**
AIMS comes complete with a total station, tripod, and prism pole (if applicable) in a compact kit that fits conveniently in your trunk. You can set it up and start taking measurements in less than a minute.

**Reconstruct other scenes, too**
Beyond traffic accidents, AIMS can also be useful in crime scene investigations. With reflectorless models, you can measure all evidence points without touching, moving or otherwise contaminating the scene.

**Built-in, easy-to-use software**
Every AIMS total station includes built-in, easy-to-use software. A separate data collector isn’t required, but you can plug in your favorite data collector—including the TDS Recon™ with PocketZone.