



**Leica Geosystems**  
Incident Mapping Suite

# Leica Geosystems Map360

Frequently Asked Questions



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## **FAQ – General Questions about Map360**

### **Q. What is Map360?**

Leica Map360 is a public safety software solution that helps investigators digitize, analyze and present the facts with confidence. Visually communicate the critical details of a scene with accurate diagrams, pre-incident plans, incident reconstructions and other courtroom exhibits.

### **Q. What is the difference between the editions?**

Map360 provides one program with three editions: Sketch, Standard, and Pro. Map360 Sketch is an entry level product designed to create basic 2D diagrams, floorplans, and reports from manual measurements, imported points, or UAV imagery. Map360 Standard introduces 3D viewing and capabilities as well as the analysis tools and animation. Map360 Pro builds further on the previous editions and includes a powerful point cloud engine.

### **Q. Are drawings compatible between editions?**

Yes! Drawings created in Sketch with 3D components such as imported 3D points, drawn walls, or 3D symbols will appear in 3D when opened with the Standard or Pro editions. Likewise, a 3D drawing created in Standard or Pro can still be opened in the Sketch edition, but it will be forced to a top view.

### **Q. Can the user interface be customized?**

The interface is consistent across all editions and allows a user to grow with the program. An additional workspace is available for advanced users that contains the full suite of CAD tools. Users can switch between experience levels to show or hide additional features or create a custom workspace with specific toolbars. We offer more customization options than any other program to fit individual's needs allowing them to work more efficiently.

### **Q. What makes Map360 different from other drawing or CAD programs?**

Many programs claim that they are a CAD system and depending on the definition used, it could be argued that they do indeed provide CAD functionality. We can safely say we are a CAD system that uses a CAD engine at the core. The same CAD engine is used in our professional grade Land Surveying and Civil Engineering products, meeting or exceeding the precision requirements used in legal land surveys and engineering projects. Map360 users can be confident in the accuracy of their work.

Historically CAD based products have been more difficult to use than other sketching applications, our ambition with Map360 was to make CAD easy for any experience level. With the release of Map360 4.0, you will see our commitment to making CAD easy to use and learn without sacrificing the accuracy, reliability, repeatability that a true CAD engine provides.

### **Q. Map360 is branded as a Leica Geosystems product, but there are similarities to MicroSurvey MapScenes. How come?**

MicroSurvey has been developing survey software since 1985 and we made our first forensic product called MapScenes in 1999. In 2015, we retired MapScenes and re-released it as Map360 under the Leica Geosystems brand.

Since Map360 is based on MapScenes, there are many common features that existing MapScenes customers will recognize.

### **Q. What kind of support do you provide?**

We offer exceptional technical support with our team of highly educated and experienced staff that are ready to help when you need it. Our [online knowledgebase](#) provides [training movies](#), [new releases](#), [news](#), and more so you can keep current. Customers frequently remind us that we provide the best support in the industry. We're here to help.

### **Q. What kind of training do you provide?**

We offer an online training program with self-paced or instructor lead, hands on training. Learn the fundamentals of creating drawings and navigating the interface of Map360 free of charge. Additional courses are available depending on your equipment and workflows. Visit [learn.leica-geosystems.com](http://learn.leica-geosystems.com) to learn more. We also have a number of certified trainings available to provide [onsite training](#) as well.

### **Q. Is there a way to combine all my evidence into one deliverable?**

There certainly is! Evidence Markers can be inserted with attached images, videos audio notes, PDFs, and other related files. Add a legend to your drawing and create an evidence report summarizing your scene, complete with diagrams, photos, evidence details and more. Each attachment can be viewed in full resolution from the embedded link in the PDF. This PDF format can be easily shared electronically, filed and printed.

### **Q. I've heard about your evidence integrity system, what is it exactly?**

Map360 creates a separate, protected database file for your hand entered, total station, and GNSS measurement data. Downloaded files are backed up automatically and the multilayered structure of the database affords extra security for your data. Any attempt to change point coordinates will result in a Point Protection warning and any changes made to point data are noted in the database. For added security, your original data collector/ASCII file is never altered. Map360 also backs up your previous drawing and database at every save, which allows you to recover from a corrupted drawing file if needed.

### **Q. I've heard that Map360 has viewports, why do I care about these?**

Viewports allow easy print function with customizable templates. Powerful viewport function allows you to select scale and views from the original drawing without having to create separate drawings.

### **Q. What type of data can I use with Map360?**

That's easy, anything! Map360 can use manually entered data via baseline offset, imported ASCII point files, total station raw data for compatible formats, GNSS data, point cloud data, aerial imagery, online imagery, and more. For users using [LTI QuickMap 3D](#), [Leica Captivate](#), or [Evidence Recorder](#), your data can be imported directly into Map360 with no pre-processing necessary.

### **Q. I have a UAV system, how can I use the data with Map360?**

UAVs are becoming more mainstream in crash and crime reconstruction. Map360 is one of the only forensic programs that can import the high-resolution orthomosaic imagery in its entirety and optionally overlay the point cloud data derived from the imagery. Imagery containing World information are also supported ensuring correct placement of your imagery without manual interaction from the user. This provides superior viewing of your data and no manual manipulation like other programs that may introduce human error.

### **Q. How powerful is the point cloud engine?**

Map360 Pro integrates the powerful and robust [Leica Cyclone](#) engine. You can work with point clouds containing billions of points without decimation and with almost instantaneous screen updates as you move around your point cloud. Many built in tools are available to help you clip your point cloud, view it from different angles, move your coordinate systems to align with objects or walls, coloring options, bullet trajectory tools, and more. Digitize and create 3D diagrams of the scene complete with Geotags, and use scanner panoramic imagery to position yourself in the point cloud to get the perfect view.

### **Q. Do you have tools specific for forensics?**

Yes! Map360 provides a 3D room building tools, a body poser to place a human representation in a scene at a custom pose, and bullet path reconstruction tool that uses a best fit algorithm to define the trajectory with 5 degrees of tolerance. We also have a fully integrated Bloodstain Pattern Analysis feature that allows a crime scene analyst to analyze impact patterns, define the area of origin, and produce a 2D or 3D visualization of the crime scene. This feature was validated by an accredited crime lab and a [White Paper](#) was produced.

### **Q. Do you have any crash reconstruction calculators?**

Map360 includes calculators for a variety of crash reconstruction formulae, including speed, deceleration factor, kinetic energy, unit conversions, trigonometry, crush, momentum angles, momentum (360° and in-line), and kinematics.

For formulae requiring distance as an input, the distance can be typed manually or selected in the drawing. Results can be copied from the drawing and pasted into your report and the Transport Canada Vehicle Specs Database is also included.

### **Q. Do you include any crash and crime scene symbols?**

Map360 includes a symbol library with various symbols specific to crash and crime scene mapping. Adjusted the size and color of each symbol or edit the symbol for a customized view.

If you need a symbol we don't provide, you could draw your own symbol, or import models from other sources. One source we support is the 3D Warehouse which is a website that has more than 10 million 3D models available at no charge. Simply find the model you want, download it, and import it directly into Map360.

### **Q. Do you have any field to finish mapping tools?**

For total station and GPS users we developed [Evidence Recorder](#) field data collection software. It works on Windows Tablets, PCs or Windows Mobile devices. Quickly capture data, attach photos and voice notes to reduce road closure times. Allows 2D/3D viewing in the field to ensure you have everything before you leave the scene.

### **Q. Is Map360 available in other languages?**

Map360 is available in English, Spanish, Chinese simplified and will soon be available in Portuguese, German, Italian, French, Polish.

### **Q. What is the cost of Map360?**

- Map360 Sketch: \$595 USD
- Map360 Standard: \$2495 USD
- Map360 Pro: \$7995 USD

All prices include 1 year of maintenance.

### **Q. Can I try Map360 before I buy it?**

Yes you can. Download a fully functional version from our [Demo Download](#) and be sure to try out the online training as well.