

iPanoMap™ for Plant Management

Your PanoMap® 3D laser scans, accessible on the go



Software & Services
Since 1976

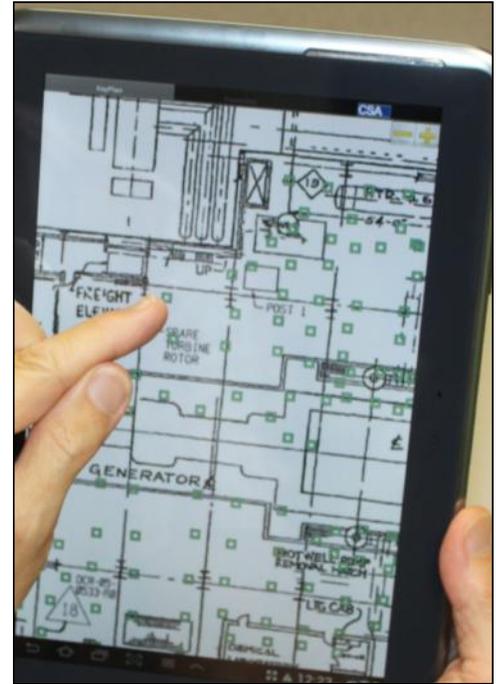
A mobile version of **PanoMap®** is now available for tablets and smartphones, providing 360° laser scan views of your plant.

iPanoMap™ is an indispensable tool for a variety of applications including plant walkdowns, inspections, and pre-job briefings.

Now your mobile device can include original scans, as well as 3D CAD models merged into the scans. **Measurements** and **smart labels**, which can represent survey data, audio, photos, drawings, and other files, with critical, conveniently placed information, can be added. Labeling information can be ported to/from a PanoMap® PC project, or created and updated with the iPanoMap™ equipped device.

With iPanoMap™, CSA offers a comprehensive plant management software/service lineup. This can include...

- **Complete turnkey service**, which includes field scanning, creation of the PanoMap® laser scan database, and installation on the mobile device.
- **Software license to iPanoMap™, PanoMap®, and PanoMap® Manager.** CSA can provide software license(s) and training to clients if they wish to create their own iPanoMap™ deployment.
- **Updates to iPanoMap™** software provided, as well as periodic updates of the iPanoMap databases residing on mobile devices.
- **Management of scans done by others** – CSA can create a PanoMap® database from laser scans (including 3D scans from virtually any scanner in current use).



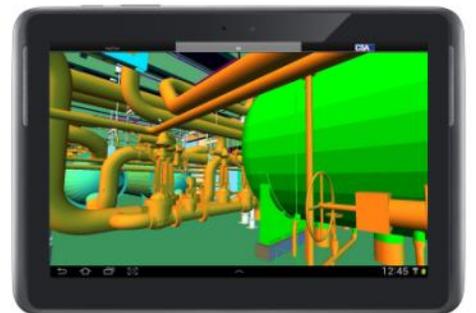
Navigate to linked 3D scans via an interactive keyplan. Green squares on map represent individual 3D scanner locations.

iPanoMap™ Scans are Available in Many Formats

- **Original scans**
- **Scans with component structures removed**
- **3D model merged within scans**
- **Interferences between new design and existing structures**
- **Surface CAD representation of the scans**



Merge 3D models (platforms, etc.) into scan views.



Use it Anywhere in the Plant

This simple-to-use tool requires no network connection—no spam, no viruses! Scans can be opened and viewed easily by your entire team.



Intelligent labeling includes radiological survey information, imported into and exported from iPanoMap™ (for nuclear power applications).

Color coded data (including radiation, vibration, and pressure) from monitors, and deviations between 3D models and scans can be displayed.

Easy Navigation Through Plant Database

The plant laser scan database is organized around the plant layout representing buildings, floors, and areas. Once the user selects an area, a drawing is displayed with scan locations within the area. Each scan location is represented by a photographic quality view of the area with the ability to pan or zoom in full 360° mode. With 2-3 selections, the user can instantly access any part of the plant on the tablet.

Full Scale Dimensional Representation of the Plant on a Mobile Device

All iPanoMap™ scans are located in your plant coordinate system. Point anywhere on the scan to access the x, y, z location of the point. Create dimensions between any points within the scan, constrained horizontally or vertically, or make a true-distance measurement between two points.

Access to Plant Component Data

Using labels and component tag names, identify valves, instruments, equipment, and inspection points. Point to a label within the scan to access information associated with the component, which can include drawings, reports, instructions, or any electronic data attached to that component.

Critical Plant Walkdown Support

iPanoMap™ technology provides excellent support for plant walkdowns and other plant field applications. Your iPanoMap™ installation can be tailored for specific applications to access existing data as well as collect data in the field. Take photographs in the field and attach them to a specific laser scan location.

Using the interface to your PC-based PanoMap®, the field collected data can be uploaded and used for additional applications.

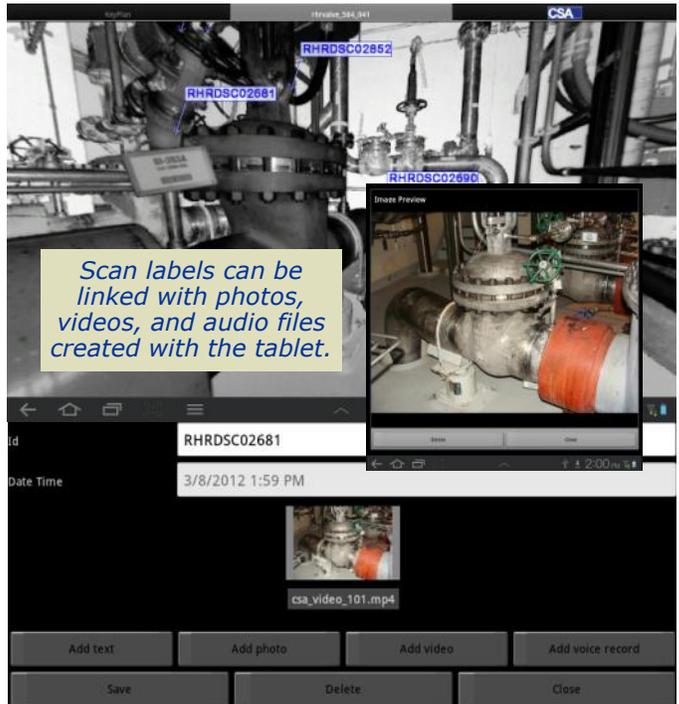
Pre-Job Briefings

Include in your reviews positioning of people, laydown areas, scaffolding construction, visualization of the items to be removed, visualization of a new design superimposed on the existing scans, and, for nuclear facilities, visualization of radiation levels.

Visualization of 3D CAD Model on the Tablet

Position yourself inside the 3D model with a 360° area view. Access the model through a series of location keyplans organized by buildings, floors, and areas.

There is no limit to the size of the model to be viewed. A 3D CAD model of the whole plant can be placed on the tablet.



iPanoMap™ models are intelligent – point to a 3D model object within the scan to identify, and view other related data and documents through this link.

Software Support

CSA provides full installation of the iPanoMap™ software and applicable plant laser scan database. Updated models can be supplied via ftp uploads as needed.