

Introducing ICWAVL[©]

Real-Time Mapping



Providing the tools to integrate GPS with your applications.

ICWAVL[©] from International Computer Works, powered by MapX, offers real-time mapping for both in vehicle navigation and field data acquisition. Designed for ease-of-use and sophistication to leverage investments made in existing applications. Manage display layers such as roads, railroads, water, political boundaries, etc. to create a moving map display of local geography. The vehicle that ICWAVL[©] is tracking remains anchored in the center of the map display while the map data in the display scrolls using a Global Positioning System (GPS).

ICWAVL[©] provides an integrated solution for any agency. While ICWAVL[©] will support many layers of map data, this data can be produced with either GeoAuthor[®] or TIGERUS[©]. A major benefit in this design is the consistency of the data that appears in the mobile unit, the desktop GIS mapping workstation and geofiles that are built with GeoBuilder[®]. Another major advantage of ICWAVL[©] is the simplicity and ergonomics of the design consistent with the demands of an in vehicle mapping system. Numerous performance features are user selectable such as the map heading or center line offset and much more.

- Roads and Highways
- Streams, creeks, ditches, etc.
- Aerial Photos
- Fence lines, power lines, etc.
- Municipalities, grids, map book pages, response zones, etc
- Railroads and Airports
- Shorelines of water bodies..
- Major Buildings
- Area and point Landmarks

Designed for ease-of-use, icons are ergonomically located on the screen to maximize efficient use while the vehicle is in motion.

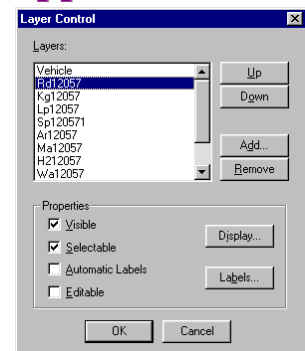
Real-time mapping with ICWAVL[©] can be used with:

In vehicle navigation

1. Use the same map data in your moving map display that is deployed on your desktops and CAD.
2. Supports standard NEMA codes, which allows support for various GPS receivers.
3. The agency defines the layer to search and label for streets.
4. Easily activated and deactivated to perform searches, pan, zoom in, zoom out and other functions.
5. Maintain a northern heading or rotate with vehicle heading user selectable.

Field data acquisition

1. Use GPS crumb trail to automate and/or assist along with other reference data such as aerial photos or parcel data to create a more accurate center street line map
2. Capture the location of individual structures along the either side of the street.
3. Use the enhanced data with vertically integrated applications such as GeoAuthor[®] or TIGERUS[©] also from ICW.



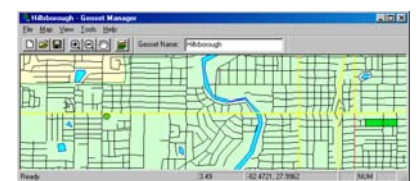
Manage Display Layers



In Vehicle Navigation


















Data Acquisition



Easy creation of Geosets allows the user to define the layers to include in collection of map layers including aerial photos.

ICWAVL[©] offers real-time mapping!

Following is an overview of the functionality for each of the user options.

-  **Connect** Activates and de-activates the GPS signal link to the map.
-  **Open** Select the geoset (map layers) for display in the map window.
-  **Select** Provides the user with a mouse pointer.
-  **Grabber** Permits the user to pan and scroll the map.
-  **Zoom In** Increase map scale or reduce the zoom width of the display.
-  **Zoom Out** Decrease map scale or increase the zoom width of the display.
-  **Change View** Specify zoom width and change the units of measurement.
-  **Find** Search for a location by an address in the road layer.
-  **Ruler** Measure the distance between points or along a route.
-  **Label** Turn street name labels on and off.
-  **Refresh** Redraw the map window to clear graphic fragments.
-  **Crumb Trail On** Activate the crumb trail and landmark acquisition.
-  **Crumb Trail Off** Deactivates the crumb trail and landmark acquisition
-  **Setup** Customize Settings.
-  **Exit** Exits ICWAVL©.
- Layer Control** Modify properties for layers within the Geoset also reordering, adding or removing layers including the vehicle symbol style.