

VisiData™

Convenient video review and data display tool

Video images are rapidly being adopted by highway agencies interested in implementing inventory and condition assessment systems. The integration of digital imaging systems, with inertial measurement systems, global positioning and pavement data, allows users to build a sound asset management system. VisiData is a visual data presentation program that provides the ability to review ARAN® processed data and synchronized video images.

This program, developed by Roadware, allows the operator to display multiple windows, each containing different combinations of data in graphical and tabular format. Data such as roughness, rutting, cross slope, etc., at various points, can be displayed at detail ('Station Interval' or as collected) or summary level (e.g. Network or District) along with digital images by specifying reference locations.



Pictured here: Panoramic ROW images and corresponding data in VisiData software

Features

- Location Based Video Playback
- Database Searching Capability
- Display Data in Graphical or Tabular Format
- Display Multiple Camera Images
- Create SQL queries
- Remote access

Location Based Video Playback

The operator can select sections to view video by entering the identification of the section such as county, route and milepost. If the user knows the specific location ID, it requires only one or two clicks to go directly to that location.

Database Searching Capability

VisiData includes full function, Structured Query Language (SQL) capability. Users can query the database to include or exclude road sections by any data element. For example, the user can create an SQL query to only view roads with high IRI and rutting in a particular county. SQL queries can be saved for users who have specific searches they perform repeatedly. This provides a powerful tool to move quickly to only those areas of interest that require attention.

Multiple Camera Images

Panoramic imagery is displayed in multiple windows synchronized with data. Pavement imagery can also be displayed with the Right-of-Way imagery. The windows can be sized to suit the user and to allow for zoom-in and zoom-out capability.

VisiData Applications

VisiData is well suited to a wide range of applications from asset inventory and condition assessment to visiting a specific road location to avoid actually driving to the site. During VisiData CD (or DVD) creation, the operator has a number of image recording choices. The operator can either select images at specific distances (e.g. every 52.8 feet), select specific images, or select a range of images for digital recording. This information can then be recorded, exported to a GIS system, stored on a network server, etc. as required by the customer.