

High Definition Digital Video



Right of Way Perspective Images

Fugro Roadware's ARAN may be outfitted with up to six HD (1920 x 1080 pixel) cameras, with options varying from 90 degree down to 47 degree horizontal field of view. Images are captured at user-definable intervals. Distance based image capture eliminates the capturing of repetitive information when the vehicle is stopped at intersections or in heavy traffic conditions, thereby efficiently utilizing available storage space. Image quality may be monitored in real-time during data collection.

Cameras are typically mounted in a turret type enclosure above the vehicle cabin, but angled to emulate a windshield view. This affords maximum visibility without restricting driver movements, and allows for more camera angles than in-cab mounting alternatives. Where the turret is not available or camera type/configurations preclude this option, in-cab windshield mounting is available.

The collected imagery may serve as a stand-alone video inventory of surveyed areas, or may be used in conjunction with additional Fugro Roadware software applications. Additional functionality may be found through:

VisiData®

Fugro Roadware's image viewing software. Display all collected views concurrently. 'Visit' sections on demand through a section inventory list, map interface, or graphs of pertinent associated data.

Surveyor®

Use calibrated digital images to perform asset and geometric feature inventories.

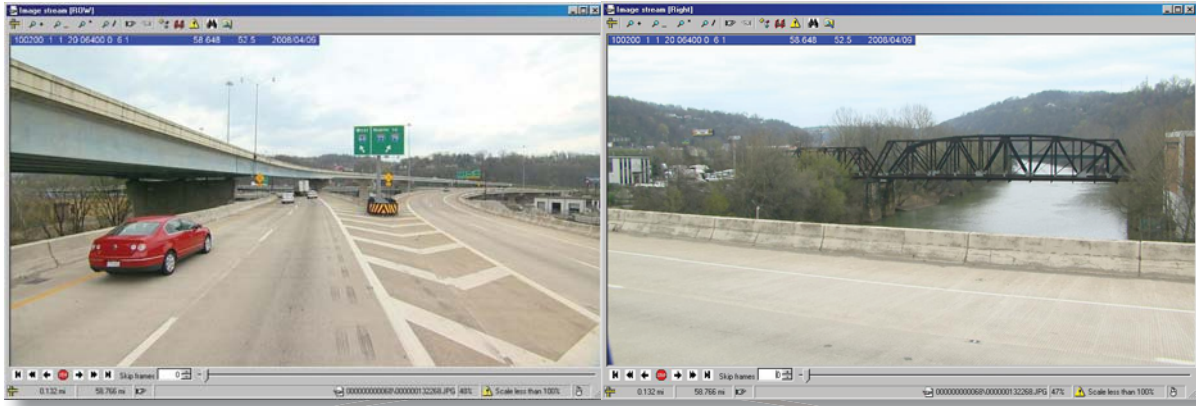
D/VRate®

Perform video distress rating surveys from the office, emulating windshield surveys.

Right-of-way and pavement view images for virtual field trips, distress rating, and asset inventories



Pictured here: 1920 x 1080 pixel resolution (HD) Right-of-Way video image, with 90 degree horizontal field of view



Pictured here: Two HD Right-of-Way video images. Each camera has a resolution of 1920 x 1080 pixels. The forward view has a horizontal field of view of 90 degrees and the right side view has a horizontal field of view of 53 degrees.

SYSTEM COMPONENTS

HD Digital Camera(s)

All HD cameras produce 1920 x 1080 pixel resolution, with horizontal fields of view varying from 90 to 47 degrees. Specific cameras will be considered for system integration where preferred.

ACCURACIES

Using Fugro Roadware's ARAN DMI, image location is reported to within 10 cm (4") of actual linear position.

ADDITIONAL SYSTEM INTEGRATION

Digital images will be linked to data from other available ARAN subsystems, including Roughness, Rutting, Faulting, Texture, Vertical Clearance and GPS position.

OUTPUT

All images are recorded in JPEG format. The JPEG images are named according to the lineal distance point where they were captured.