Innovative Signal Analysis, Inc.

Innovative Signal Analysis, Inc., (ISA), is a highly regarded small business provider of real-time signal and image processing systems for the US Government. It is dedicated to the development of high performance solutions for our Nation's most demanding security challenges. ISA works in all phases from concept design, through development and integration, to operation and maintenance of complex mission critical systems.

WAVcam® was developed at ISA in Richardson TX by a team with extraordinary knowledge and experience in multiple engineering disciplines to provide persistent, very wide-area visual domain awareness for homeland security applications. WAVcam is particularly effective for coastal and seaport surveillance as well as broad area land border. Other applications include airports, critical infrastructure, large-scale events, disaster response and other situations where continuous and complete situational awareness is demanded. See http://www.wavcam.com/ for product information.

During WAVcam's proof of concept testing, ISA demonstrated the technology in operations at the US southern border, working with the CBP. This led the DHS Science and Technology Directorate, Borders and Maritime Division to sponsor an evaluation of WAVcam for Maritime Domain Awareness in an 18 month trial, conducted in an operational context at the US Coast Guard Sector Command Center Los Angeles/Long Beach.

That evaluation found that the WAVcam System can provide a substantial improvement in situation awareness and significantly increase the ability of system operator to continuously see, understand, anticipate and analyze events and activities.

Goal	WAVcam Feature
Ability to view area of interest regardless of legacy camera locations.	Operator can click on any vessel within the panoramic view to provide zoomed in, full resolution, high definition image in a separate window.
Identify and track numerous small vessels in port.	Unified panoramic view enables simultaneous viewing of all vessels and a graphic indication of motion, direction and speed.
Place the "single camera" view in context.	Unified panoramic display indicates the geolocation of each zoomed view.
Place feeds from hundreds of cameras available from port partners in context.	WAVcam provides wide area persistent coverage and high resolution imagery from a single sensor.

WAVcam systems are currently deployed at the Port of Long Beach, the Port of Corpus Christi, the Port of Baltimore and Miami (Biscayne Bay). Other seaports in the US, as well as airports, have indicated interests or plans to procure systems in future acquisition cycles.

Our field-proven WAVcam systems are ready to solve tough, wide-area surveillance problems for Homeland Security.