MotionDSP ISR

Features

- Real-time Video Enhancement
- Persistent Virtual Fence
- Activity Tracking
- Premium Plugins
- Geo-Mosaicing
- Video Expliotation

Full-Motion Video Enhancement.

Designed to maximize situational awareness, MotionDSP ISR® software fuses and delivers full-motion video enhancement and exploitation capabilities to all operational levels; from tactical environments to operations centers.

MotionDSP ISR can concurrently apply over twenty different algorithms to analog or digital video feeds in real-time, correcting common video issues such as poor signal quality, compression artifacts, interlacing, atmospheric haze, poor lighting conditions, and platform shake.

Currently deployed in support of U.S. Military Operations Ikena ISR enables real-time:

- target tracking
- target surveillance
- perimeter security
- battle damage assessment

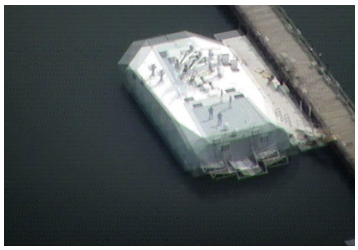
CUBIC
Mission and Performance Solutions

MotionDSP

Cubic's image processing and video analytics software improves full-motion video (FMV) fidelity in real-time. Our TRL-9 software, originally designed for FMV processing, exploitation, and dissemination (PED) sites provides analysts and sensor operators the ability to quickly see critical details, detect threats, and make decisions faster.

Examples below captured from real-world video of Cubic's video conditioning provide a view into how we leverage this technology to increase lethality and survivability, and improve mission success today.

Pre-Conditioning	Video Conditioning Algorithm	Post-Conditioning



Stabilization

Enable rapid positive identification of threats and targets by improving the quality of video in real time.

Atmospheric Attenuation

Improve security posture of dismounted soldier by permitting video reconnaissance in more environmental conditions: smoke, haze, windy than otherwise possible.

Dehaze

Maintain positive identification (ID) in and out of shadows with single camera to enable persistent surveillance without loss caused by infrared (IR) switching.