



FEATURES

Real-time, GPU-accelerated, multi-algorithm FMV/WAMI improvement

- Super-resolution
- Removal of atmospheric haze
- ISR-tuned stabilization
- Automatic lighting and contrast correction/HDR expansion

Visual Moving Target Indication (VMTI) and Tracking

- Real-time detection and tracking with HD FMV and WAMI sources

Advanced Image Processing

- Automated removal of overlaid metadata text
- Real-time, pixel-based mosaicking
- Pixel-based 3D measurement

Standards-based

- MISB standard and KLV compliant
- IP Video, NITF, KML, SHP
- Integrates with any FMV system

BENEFITS

Improves Analyst Productivity

- Improves the fidelity of EO and IR from any FMV/WAMI source
- Reduces analysis time
- Reduces operator workload

Runs on Existing PC Hardware

- Runs on COTS PC laptops, workstations, and servers
- Leverages NVIDIA graphic cards (GPUs) for real-time performance

HARDWARE REQUIREMENTS

- Windows XP, Windows 7 32/64
- Quad-Core CPU 3.0 GHz or better
- 8GB RAM
- NVIDIA GPU (Kepler recommended)

CONTACT

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IKENA ISR: BETTER VIDEO - NOW

Advanced Real-time Image Processing for Full Motion Video and WAMI Analysts

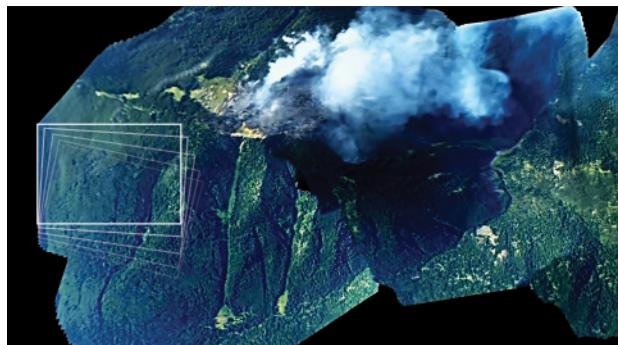
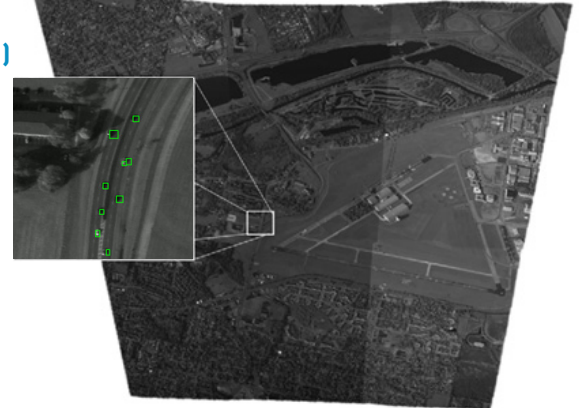
Full Motion Video (FMV) suffers from quality issues that prevent the FMV analyst from providing the best information to the warfighter. Problems like atmospheric haze, shake, poor lighting, and noise degrade even high-definition systems, thanks to less-than-ideal environmental conditions and video compression artifacts.



MotionDSP's Ikena® ISR software uses a suite of patented image processing algorithms to comprehensively improve image fidelity in real-time. Ikena ISR is a commercial Windows-based software application that uses COTS graphic chips (GPUs) for high-performance image processing. Able to scale from laptops to workstations to cloud/VDI solutions, Ikena ISR is a powerful tool for FMV/WAMI exploitation, uniquely able to provide real-time results on live feeds.

Visual Moving Target Indicator (VMTI)

Real-time detection and tracking of moving objects in HD FMV and WAMI sources.



Real-time Pixel-based Mosaicking

Seamless mosaics from any FMV source with or without metadata.

Integrates with any FMV/WAMI System

Using MISB-compliant IP video standards and commercial APIs, Ikena ISR can integrate with any video system. Ikena ISR has been integrated with Exelis JAGWIRE, General Dynamics MAAS, and Teralogics UVDS.