



ADVANCED VIEWING OF ISR MOTION IMAGERY






MissionMonitor

See, analyze, optimize with precision.

Advances in sensor systems and airborne platforms require users of motion imagery to efficiently view and exploit video together with platform metadata. Knowing how, when, and where mission data was collected is essential for users to derive actionable intelligence.

MissionMonitor, part of the suite of General Dynamics Mediaware Products, is an advanced ISR motion imagery viewer which combines high performance playback and video enhancement with integrated metadata and situational awareness tools. It supports ultra-low latency decoding, a moving map display, and access to the contextual video metadata to support a variety of mission workflows.

As a fully STANAG 4609/MISP compliant viewer, MissionMonitor is accredited for use across military, law enforcement and commercial organizations to enable efficient viewing and interpretation of live, post flight and archived video content.

-  Incisive video and imagery review
-  Enhances situational awareness
-  Simplifies analysis and reporting
-  Intuitive user interface reduces user fatigue
-  Quick installation and setup within minutes

Seamless integration.

MissionMonitor has an operationally proven track record and boasts demonstrated plug and play interoperability with STANAG 4609/MISP compliant manned and unmanned ISR platforms. With its precise player controls, accurate on-screen measurement, snapshot and clip extract publishing tools, MissionMonitor allows users to efficiently view and report on imagery.

Advanced diagnostic capabilities.

MissionMonitor optionally includes a data diagnostics module that makes it an indispensable tool for system integrators, system operators and network administrators. With detailed tools to inspect the video and metadata encoding and Transport Stream packetization, users can optimize their data sets and perform conformance testing, quality monitoring and system troubleshooting.

REFINE AND ADJUST YOUR IMAGERY

- Low latency decoding reduces glass to glass display
- Frame step, slow mode or up to 32x fast forward or rewind enables large volumes of archived video to be quickly reviewed and processed
- Precise navigation by time

- Selectable zoom and pan
- Integrates with a variety of mapping tool sets
- Enhancement filters such as contrast enhancement, haze removal and image sharpening.

SKILLFULLY MANAGE YOUR METADATA

- Moving map display improves situational awareness
- Configurable heads-up-display enables platform and sensor telemetry data to be overlaid on the video without permanently obstructing the imagery
- On-screen measurement of distance, path and area
- View Video Moving Target Indicator (VMTI MISB ST 0903) detections

CHOOSE THE BEST VISUALIZER FOR YOU

- Quick platform view
- View co-ordinates as latitude/longitude, Military Grid Reference System (MGRS) and Universal Transverse Mercator (UTM)

FOR ALL INQUIRIES INCLUDING MAAS/
MEDIWARE PRODUCTS (MWP):

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Technical Specifications

STANAG 4609/Motion Imagery Standards Profile (MISP) compliant, including:

- Standards 0104, 0102, 0601, 0602, 0603, 0604, 0605, 0801, 0806, 0807, 0902, 0903, 1002, 1010, 1107, 1202, 1206, 1601, 1602 and SMPTE RP210v13, 20120214
- ESD Carried in Closed Caption fields (Line-21)

Video Formats

- HEVC (H.265) SD/HD 4K Main profile
- AVC (H.264) SD/HD Base, Main and High profile
- MPEG-2 Main and 4.2.2 profile

Packetization

- MPEG-2 Transport and Program Streams

Image Formats

- BMP, PNG, PPM, TIF, JPEG, NITF 2.1

Input Media

- File
- UDP/IP Unicast and Multicast

Mapping Clients

- FalconView™
- Google Earth™
- WMS Map Servers

System Requirements

- Windows® 10/8.1/7
- Graphics cards must support OpenGL® version 1.5. (NVIDIA® cards recommended)
- RAM Needed: 4GB minimum