

# Virtual Intelligence Surveillance & Reconnaissance Training (vISRT) system

The first choice in high-fidelity simulation for intelligence Processing, Exploitation, and Dissemination (PED) training



In 2021, CAE acquired L3Harris' Military Training business, which included Link Simulation & Training and Doss Aviation. These businesses are now integrated with CAE USA as part of CAE's Defense & Security business unit.

## Overview

CAE's Virtual Intelligence, Surveillance, & Reconnaissance Trainer (vISRT) is the first choice for distributed mission cell and intelligence analysis center training capabilities. The vISRT provides extensive real-time dynamic feeds from simulated manned and unmanned ISR aircraft that can be controlled real-time and fed directly to intelligence screener and analyst terminals. Intelligence professions can now have a dedicated, highly affordable, stand-alone ability to train on any mission set from initial preparation of the operational environment (IPOE) to real-time raid support and high value individual (HVI) targeting and strike.

The vISRT is network-ready, compliant with the U.S. Air Force's Distributed Mission Operations (DMO) standards and can link multiple US and coalition partners for small- or large-scale mission training and exercises. The high-definition virtual ISR streams provided by the vISRT simulates live mission data and includes full motion video (FMV) of both electro-optical (EO) and physics-based infrared (IR) (near and far spectrum IR), synthetic aperture radar (SAR) with moving target indication, and Signals Intelligence data collected by platforms such as MQ-9, RQ-4, U-2 and RC-135.

## High fidelity sensor data output

When networked, the vISRT immerses intelligence students and seasoned analysts in a highly complex and realistic operational data environment. Whether streamed across a network, fed to operational analyst stations, or connected to a weapons system trainer, the vISRT gives intelligence instructors unprecedented ability to create and control any tactical scenario with the highest-fidelity ISR data available to meet any training need. Now you can vastly improve the efficiency and effectiveness of local training without having to rely on live missions or outside units.

### vISRT features include:

- The ability to create multiple virtual ISR assets with independent targets and unique sensors
- High-definition video and SAR images
- Automated or manual control of assets
- Physics-based weather, electronic warfare, and cyber effects
- Complex entity behavior to create any scenario
- Virtual Link-16 and other tactical data link pictures
- High-altitude imagery
- SIGINT data
- Ability to both host and join MO events
- Exportable to NATO and other coalition partners
- Highly affordable

## vISRT system operation / integration

The vISRT comes in a small footprint — one half-rack of computer equipment and a simple instructor interface. CAE can also supply on-site subject matter experts (SMEs) for system setup and integration. On-site SMEs can operate and maintain the system to ensure networking configurations are optimized for integration and dissemination purposes.

The vISRT also excels as a stand-alone capability in a formal training venue. vISRT facilitates initial qualification, continuation, upgrade, and mission rehearsal training, and can vastly increase the throughput and efficiency of your intelligence training effort.

## Multiple simultaneous diverse streams of data

One of the primary benefits of the vISRT system is the ability to output both FMV and SAR imagery from multiple platforms simultaneously. This can help teach students how to integrate with both the targeting and the collection management processes, and hone their ability to provide real-time support to tactical units. Bringing real-world applications to the simulation and training setting gives students the unique ability to apply their knowledge in a closely controlled and tailored environment. Instructors can begin training with a clear mission set in mind and can interact with the vISRT operator to change any necessary items and inject assets that are dynamically re-tasked thereby allowing more student utilization of ISR cross-cue techniques. This ability to make changes on-the-fly allows exceptional instructional flexibility.



## White cell and C2 support

As a total training solution provider, CAE can also provide white cell and C2 support for your networked exercise or multi-site training event. Our team of C2, intel, and operations experts can provide any level of role-playing support—from a single forward air controller to a full coalition joint task force C2 structure. CAE can also build your scenarios, create the complex mission environment, integrate the training locations, generate the scenario products, and facilitate the entire event.

## Turnkey training package

CAE offers a unique and unparalleled ability to introduce high-fidelity simulated and customizable training for intelligence professionals and organizations. This solution of a single system outputting multiple data streams operated and maintained by SMEs allows training centers and exercise managers the freedom to focus on operational missions.



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