ENHANCE YOUR ADVANTAGE.
VIDEO UNIT FOR EXPLOITATION (VUE) SOFTWARE
ADVANCED VIDEO EXPLOITATION FOR LONG-RANGE CLARITY

Next-gen VUE software

Keep your distance while seeing up close. VUE’s proven image enhancement (applied to the left side) reveals game-changing clarity from greater distances.

Current software

FAR-REACHING PRECISION THAT PUTS YOU IN CONTROL

VUE software provides powerful image enhancement, streaming capabilities and innovative industry interfaces for successful EO/IR data collection, analysis and missions.
ADVANCED CAPABILITIES

VIDEO ENHANCEMENT AND PROCESSING
- Turbulence mitigation
- Contrast enhancement
- Digital zoom
- Edge detection
- Point detection
- Movement detection
- Fusion of multiple video streams
- Real-time image overlay and four corners rectification using external Digital Terrain Elevation Data (DTED)

VIDEO STREAMING
- Process video stream for moving and fixed targets

INDUSTRY INTERFACES
- Ethernet TCP/IP-based command manager and user interface
- Supports DHCP for IP address and interface instructions, if desired
- Built-in multi-level BIT detection for quick fault isolation
- Supports turret fault modes
- Turret interface
  - MX™-15 and MX™-20
  - Sonoma 474 and 494
- Ability to interface to multiple industry sensor systems
- Video streaming per MISB 6.5 supporting multi-cast & UDP
- Supports interface to common exploitation software such as General Dynamics MAAS® and BAE Systems SOCET GXP®

EASY TO INTEGRATE TO SUPPORT YOUR UNIQUE APPLICATION

Based on decades of leadership in video exploitation, L3 Aeromet engineered VUE software using the Universal Windows Platform and standard object-based components. As a result, this robust software easily runs on hardware from a diverse vendor set to fit your mission-specific needs.

VUE software is TRL 7.

COMPLIANT. COMPATIBLE. COMMANDING.

VUE’s proven precision comes from four software components that together create a distributed, flexible image processing system capable of producing up to 12 MisB-compliant video streams.

OWL – IMAGE PROCESSING
- Records image data from each of the cameras on the sensor system
- Processes the data in real time via user-defined options at up to 30 fps
- Provides blob information to Talon tracking component
- Performs video streaming

TALON – TRACKING
- Implements 3-D state estimator tracker
- Tracks targets independently in all camera systems
- Provides track information to user-display system

FALCON – COMMAND AND CONTROL
- Controls ARIES™-25 Sensor System or other FMV system
- Implements mission system management server
- Provides real-time control of line-of-sight
- Communicates with host platform

CAST – ASYNCHRONOUS STATISTICAL PROTOCOL
- Allows multiple sensors to share data as if the data were recorded at the same time
- Enables real-time-like performance using non-deterministic bus topology
- Forms the underlying communications scheme for the system
INTEGRATED PERFORMANCE

VUE software is part of a total solution designed to operate together or easily integrate into your solutions to help your mission succeed.

ARIES™ - 25 SENSOR SYSTEM

- Turret-based FMV that mounts in any orientation
- Six simultaneous cameras with advanced image processing
- Auto-detect/auto-track up to 10 targets at time
- Qualified to MIL-STD-810 and MIL-STD-461

VUE PROCESSOR

- 4th Gen Core i7 processor
- Ruggedized and compact
- Qualified to MIL-STD-810, MIL-STD-461

GROUND STATION

- Rugged, configurable and transportable
- COTS-based solution supporting integration into a range control center, a mobile command center or direct connection to a sensor system

THE CHOICE THAT LEAVES NOTHING TO CHANCE.

L3 Aeromet provides high-performance sensor systems and associated support systems that are proven to perform in extremely harsh environments. Our expertise in EO/IR systems, mission execution, data collection and exploitation, and special mission aircraft modification stems from our unparalleled support of missile defense data collection - since the start of the Strategic Defense Initiative Organization (SDIO) in 1983. In fact, we've collected and delivered on nearly every Missile Defense Agency (MDA) flight test since the beginning of the missile defense program. Founded in 1974, L3 Aeromet is backed by the power of L3 Technologies, an industry-leading source of innovative defense electronics.