C4i communication

EXPERIENCE THE DIFFERENCE
YOUR SECURITY & SAFETY PRODUCTS

Customer Briefing

LEARN MORE:
http://c4icommunication.com

Who is C4i Communication?

- A **software solutions company** developing **AI/ML** Geospatial Computer Vision and Sensor Integration solutions for **autonomous** physical security perimeter and border protection.
- 20 years of progressively sophistcated successful deployments.
- 20 years of continuous innovation including **16 issued patents** in geospatial computer vision technology.
- Developer of an automated outdoor surveillance software application**"C4i Activ".**

Our Products

C4i-Activ
AlertView
Common
Operating Picture

C4i-Activ
AI Video Analytics

R-DAPSS
Rapid Deploy
System

VisionView 180
Camera System

C4i-Activ C-UAS

C4i-AI for Central
Monitoring

Our Markets

SEEING BEYOND THE OBVIOUS

Esteemed Installed Base

- **U.S. Border** – **Largest single provider** of Surveillance COP Software on the U.S. Border **(~ 50%).** ~30,000 sq miles coverage, ~ **160 towers, 165 mobile systems, ~1000 video feeds, COP in ~25 border stations**, video analytics out to > 5 miles, radar integration and tracking.
- **Duke Energy - Nuclear Power Plants** – 6 plants. Multi-sensor integrated Automated Early Warning Perimeter System, ~ 5 miles of perimeter detection using video analytics and buried/fence fiber, radar in selected areas, access control integration, solar and other system health monitoring, COP in lookout towers.
- **Bay Area Rapid Transit (BART)** – Rail Intrusion Detection System.
- **Commercial Seaports (Tacoma, Seattle)** – Geospatial Intelligent Video Management Solution ~ 750 cameras and growing.
- **U.S. Defense contractor** – Automated detection along the perimeter. Multiple high security sites around the U.S., centrally monitored.
- **U.S. Military Seaports** – Water-side geospatial perimeter protection solution.
- **U.S. Military Airport** – Geospatial Intelligent Video Perimeter protection system.
- **UAE Ministry of Defense** – Airport, high-risk sites, and mobile systems.
- **Water Utilities** – Geospatial Intelligent Video Perimeter protection system.
- **Major U.S. River Lock System** – Hundreds of cameras protecting critical U.S. and Canadian Lock infrastructure.

What our Customers Say

We selected C4i Communication Systems for our perimeter surveillance software solution due to their ability to integrate best-of-breed perimeter sensors including their award-winning video analytics . After working with them for over 7 years, we are extremely pleased with not only the capabilities of their solution, but also the effort they bring to the table to ensure our needs are met. We consider them a valuable partner."
- MANAGER OF NUCLEAR SECURITY PLANNING AND PROJECTS, UTILITY IN NUCLEAR INDUSTRY

We use C4i Communication Systems video analytics to secure the perimeter around our critical manufacturing and test campus long with general video surveillance for our other sites across the nation. We monitor all these sites from a single command center.
C4i technology delivers on its commitments, and they can be counted on to provide world class customer service."
- SECURITY OPERATIONS MANAGER FOR A U.S. GOVERNMENT MANUFACTURER

"I have relied heavily on C4i-Activ and thrived off its benefits. C4i- Activ is a gamechanger , no doubt about it".
- U.S. DHS USER

"It (C4i-Activ) automates the real-time detection and notification of any object of concern on the rail tracks so risks are mitigated with minimal operational impact."
- ANONYMOUS AT TOP 10 RAPID TRANSIT AGENCY

" The integration of C4i-Activ with our Magos radars is the best we've seen and the C4i Communication team did it without needing any technical support from Magos!"
- YARON ZUSSMAN, GENERAL MANAGER, MAGOS AMERICA

"C4i Communication Systems Inc. is a Gold Tier Member of Intel's Partner Alliance program, and we fuel a powerful fusion of advanced hardware for edge computing and award-winning AI-boosted Video Analytics, driving innovation and affordable security. Together, we are revolutionizing security solutions, creating a safer and smarter world for all." – INTEL CORPORATION.

"C4i Communication is a long-time provider of Intrusion Detection solutions for our Waterfront and Airfield Surveillance Systems for the US Army. They have supported both maintenance and system upgrade services including integration of a wide variety of supporting technologies. C4i Communication has continually upgraded their solutions to provide enhanced detection in difficult environments."
- RODDY TRAXLER, OPERATIONS MANAGER, INFOTEC SYSTEMS CORPORATION

Key Benefits of C4i-Activ

Dramatically increases operator productivity (force multiplier).

Improves site security by automating perimeter detection, deterrence, and response and improving situational awareness.

Lower total system purchase and support costs.

Benefits of C4i-Activ

Autonomous Detection and Deterrence

Enhances Situational Awareness

Improves Site Security

Lowers Operator Workload/ Increases Productivity

Improves Communications and Data Sharing

Helps Mitigate Airborne Threats

Featured on R-DAPSS for Rapid Deployment

Lower Acquisition and Sustainment Costs

Our Technology Differentiators

- **Higher Accuracy** – High Probability of Detection/Classification and Low Nuisance Alarm Rate.
- **Better Situational Awareness** – GIS Map GUI with Real-time object tracks.
- **Nimble Solution** – Addresses many use cases
  - Can be deployed as whole perimeter, video analytics addition, counter drone, border solution.
  - Integrated with vast number of cameras, radars, other detection and tracking sensors, VMSs, and Physical Security Information Systems.
  - Deploys on edge, server, and in cloud.
  - Scales economically - start small and grow solution as needs change.
- **Superior Quality -** Proven, High Availability, Rapid Break-fix.
- **Rapid Innovation** – Microsoft / Intel development platform enables rapid innovation and continuous modernization, vs. Linux-based OS platforms.

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Differentiators backed up by head-to-head testing and customer testimonials.

Nuisance Alarm Rejection using C4i Patented AI-Boosted Video Analytics

Sources of Nuisance Alarms in traditional video analytics and other detection sensors.

WATER DROPLETS ON LENS
Motion Video Analytics

CAMERA SHAKING
Motion Video Analytics

LIGHTING CHANGES
Motion Video Analytics

VIBRATIONS DUE TO LOUD SOUND
Fence/Buried Fiber

ANIMALS
Motion Video Analytics

VEGETATION MOVING IN WIND
Motion Video Analytics

SOMETHING MOVING OTHER THAN PERSON OR VEHICLE
Radar

FENCE VIBRATION
Fence/Buried Fiber

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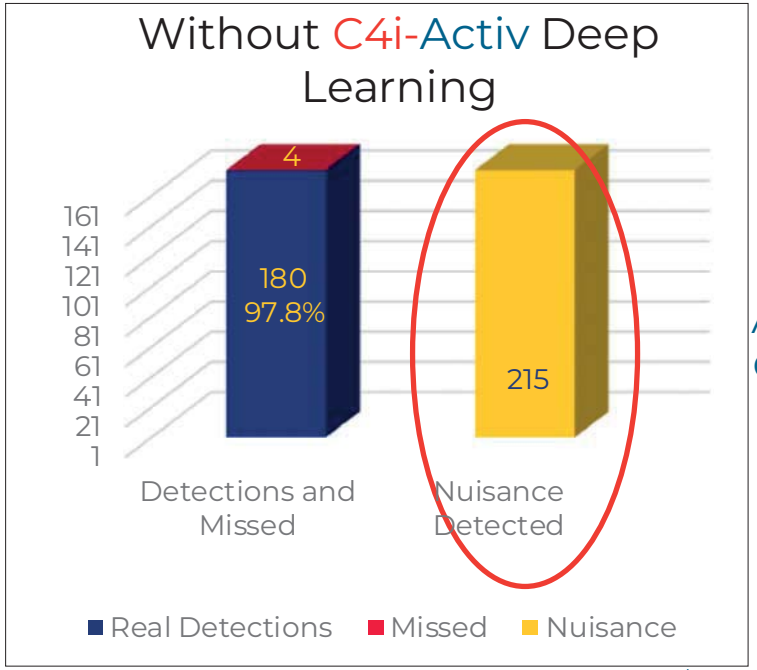
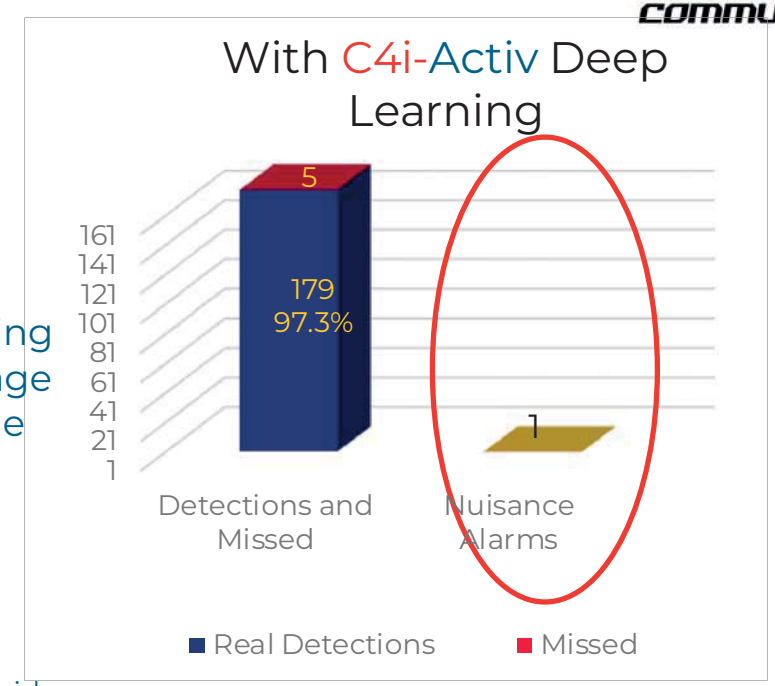
C4i- AI-Boosted Video Analytics eliminates 98%+ of nuisance alarms.

Real-World Example of Nuisance Alarm Elimination

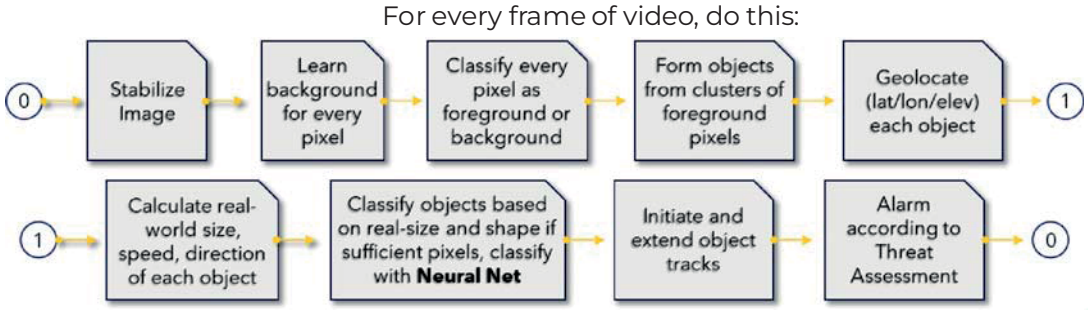


Adding Deep Learning Classification to Image Processing Pipeline



*Sample from 178 actual alarm videos

C4i Geospatial Video Analytics boosted with its Deep Learning Auto-Verification, which incorporates 20 years of surveillance training video, reduced nuisance alarms by 99.5% while maintaining very high probability of detection.



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Geospatial Video Analytics With ML

Autonomous Ground & Air Perimeter Protection

SEEING BEYOND THE OBVIOUS

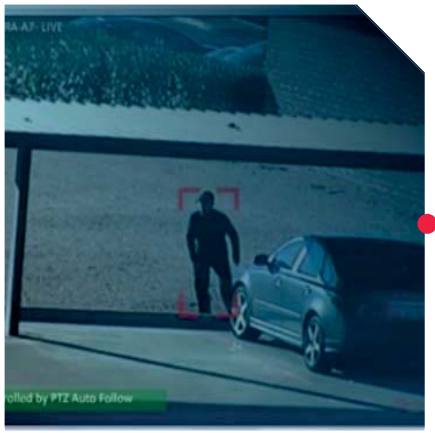
Auto **DETECT** and **GEOLOCATE** Intrusions

- **C4i Communication** Geospatial Video Analytics
- Fence Sensors,
- Radars,
- Ground,
- Other sensors.

Auto **CLASSIFY** Intruders

- Autonomously steer cameras, dispatch drones to geolocation of intrusion.
- Using ML, Classify target as a threat/non-threat.

Auto **ALERT** Personnel & **Keep Track** of Intruders



- Issue Alarms – Mobile devices, Workstations.
- Autonomously follow intruders.
- Keep airborne and ground intruders in camera views.

Auto Deter & Defeat

- Blast intruders with deterrent sounds and strobe lights.
- Jam drone communications and GPS.

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Autonomous Perimeter Protection

SEEING BEYOND THE OBVIOUS

- Autonomously Detects and Geolocates intruders with analytics, radars, and/or fence sensors.
- Slew PTZ cameras and dispatch drones to geolocations of intrusions.
- Auto Classify with A.I./M.L.
- Issue Alarms (image, looping video, live camera view, and map location).
- Auto Lock-on Target and Track the intruder.

Highest Alarm Accuracy Guaranteed

Access Control – Auto-Verifying Real Alarms and Rejecting Nuisance Alarms

Auto-verify the following PACS events:

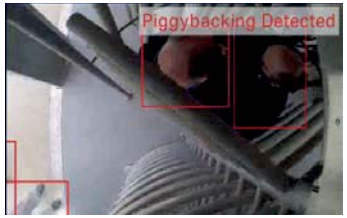
- Door forced open,
- Door held open,
- Assisted entry,
- Piggybacking, and
- Eliminate Nuisance Alarms from intermittent door contacts causing repeated Door Forced open alarms.

Outputs to VMS/PACS/PSIM Options:

- Alarms via dry contact,
- Alarms via software integration,
- Alarms sent to VMS/PSIMS can be auto-cleared in the PACS system,
- Live video with annotations, and
- Recorded alarm video with annotations.

Forced Entry


Door Held Open



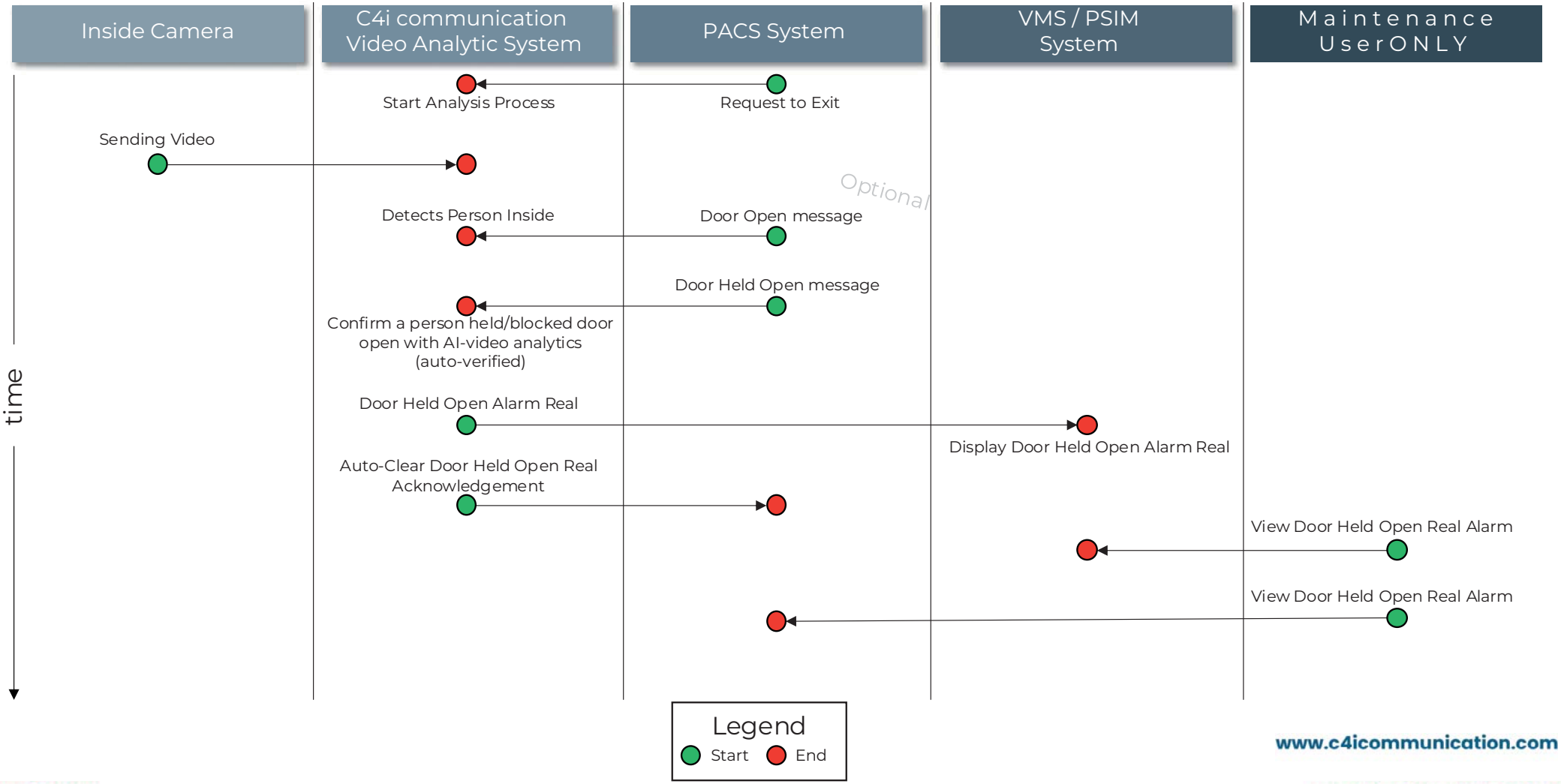
Piggybacking Detected

Tailgating Detected

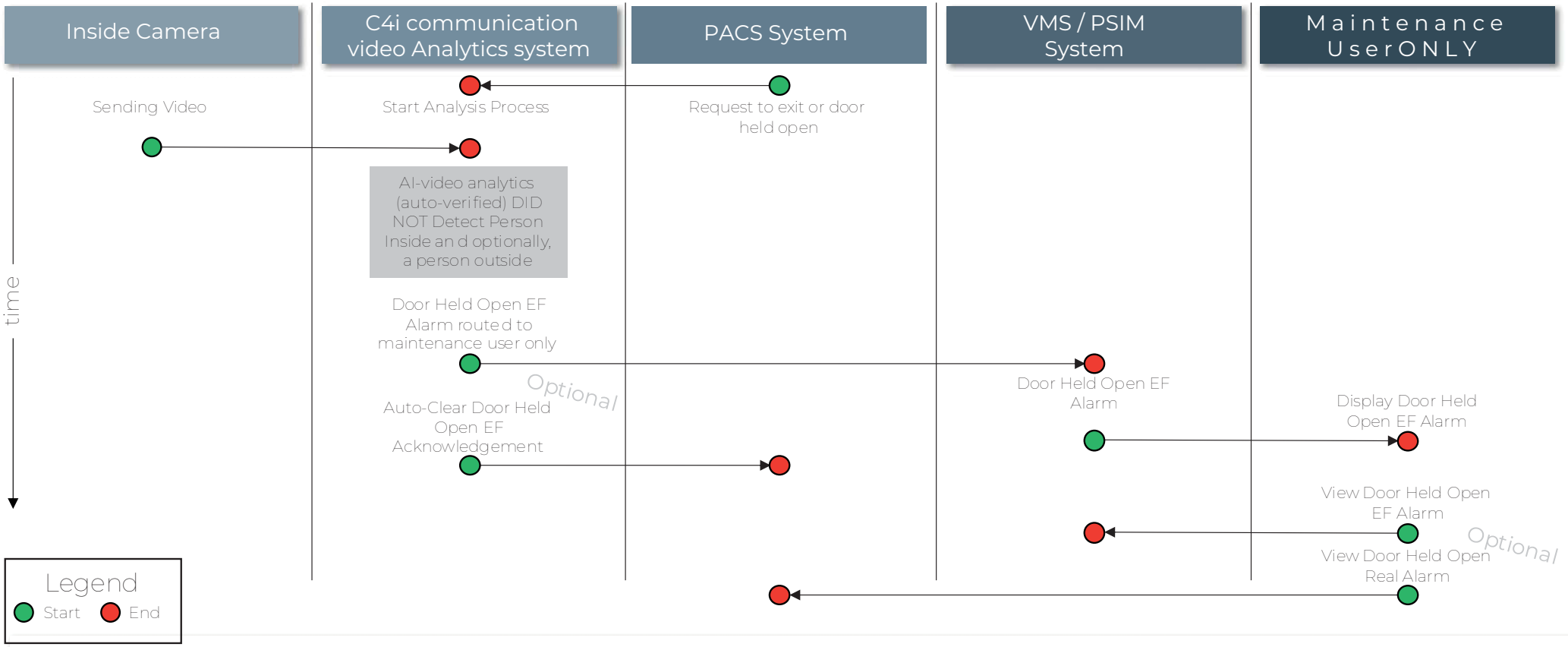
Assisted Entry

Piggy-Back

Access Control – Auto-Verified Real Alarm



Access Control – Equipment Failure (EF) Nuisance Alarm Elimination



Eliminating Equipment Failure Nuisance Alarms by :

- Routing of faulty hardware alarms to maintenance personnel, not security personnel, and
- Alarms can be auto-cleared in the PACS System, if desired.

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Geospatial AI-Boosted Video Analytics


Classify & PTZ Auto-follow

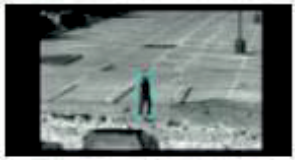

Fixed Detect, PTZ Classify


Rail Platform Fall Detection


Slow Belly Crawl


Vehicle Stopped too Long


Classify from Drone


Classify & PTZ Follow


PTZ Follow Through Occlusions


PTZ Follow Specific Target


PTZ Follow Tailgater


Loitering in Bug Infested Video


Loitering Alarm


Object Left Behind 1


Object Left Behind 2


Object Left Behind 3


Removed Object


Thrown Object


Object Classification


Low Signal Detect


Vehicle & Person Detect


Person Detect in Snow


Active Theft – Person Classification


Rail Intrusion – People Classification


Rail Intrusion – Person Classification


Multi-person break-in


Multi-zone Violation Alarm


Intrusion over Wall


PTZ Handoff


X-walk Incursion


Video Analytics Viewer

SEEING BEYOND THE OBVIOUS

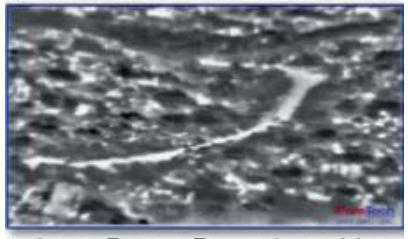
Long Range/Border Examples

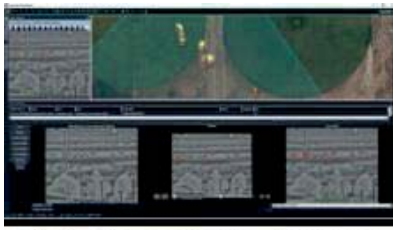

Long Range People Classification 1

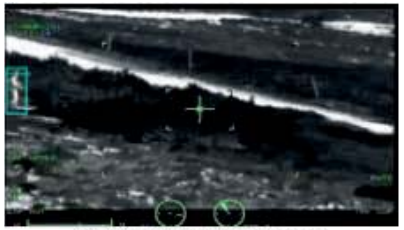

Long Range People Detection 1


Long Range People Detection 2

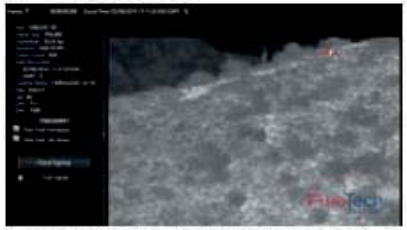

Long Range People Detection 3


Long Range Detection with heat turbulence


Person Classification w/ Cows


Long Range People Classification 2


Long Range Person Classification

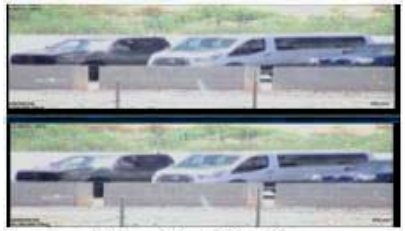

Long Range People Detection 4

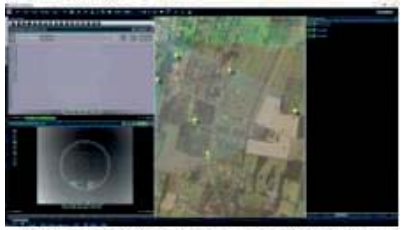

Long Range People Detection 5


ATAK Integration


Border Radar Follow - Vehicle


Border Radar Follow - Person


Video Stabilization


Drone Detection and Tracking

Autonomous Detection, classification & tracking > 5 miles

Critical Infrastructure Solution –

Add Autonomy including Nuisance Alarm Elimination to New or Existing Perimeter System

SEEING BEYOND THE OBVIOUS

Color and Thermal PTZ & Fixed Cameras

Ground and Drone Detection Radars

PureActiv Geospatial AI Video Analytics

COTS Edge

COTS Servers

Buried and Fence Sensors

Existing NVR or PureActiv

- ✓ Utilizes existing cameras, radars, fence sensors, access control, NVR, network.
- ✓ Eliminate up to 95% of nuisance alarms using ML.
- ✓ Gives your NVR live geospatial map capability with no integration required.
- ✓ Autonomous PTZ camera lock-on-target tracking keeps intruder in camera view.
- ✓ Location of detected targets shown on GIS Map.
- ✓ No operational changes.
- ✓ Easily Scales to fit your budget and needs today and tomorrow.
- ✓ Longer detection and classification ranges reduces infrastructure costs by as much as 30%.

Existing NVR or PureActiv Client

Analytics Behaviors:

- ✓ Zone Entry/Exit,
- ✓ Stopping,
- ✓ Loitering,
- ✓ Crowding,
- ✓ Travel Path,
- ✓ Object left behind,
- ✓ Crawling, walking, running,
- ✓ Wrong Direction of travel,
- ✓ Thrown Object,
- ✓ Removed Object,
- ✓ Person & Vehicle Tailgating, and
- ✓ Counting.

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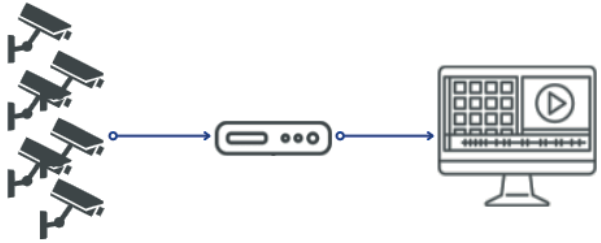
Architecture Example 1 –
Using Video Analytics with DL Classification on Fixed Cameras to Reduce Nuisance Alarms

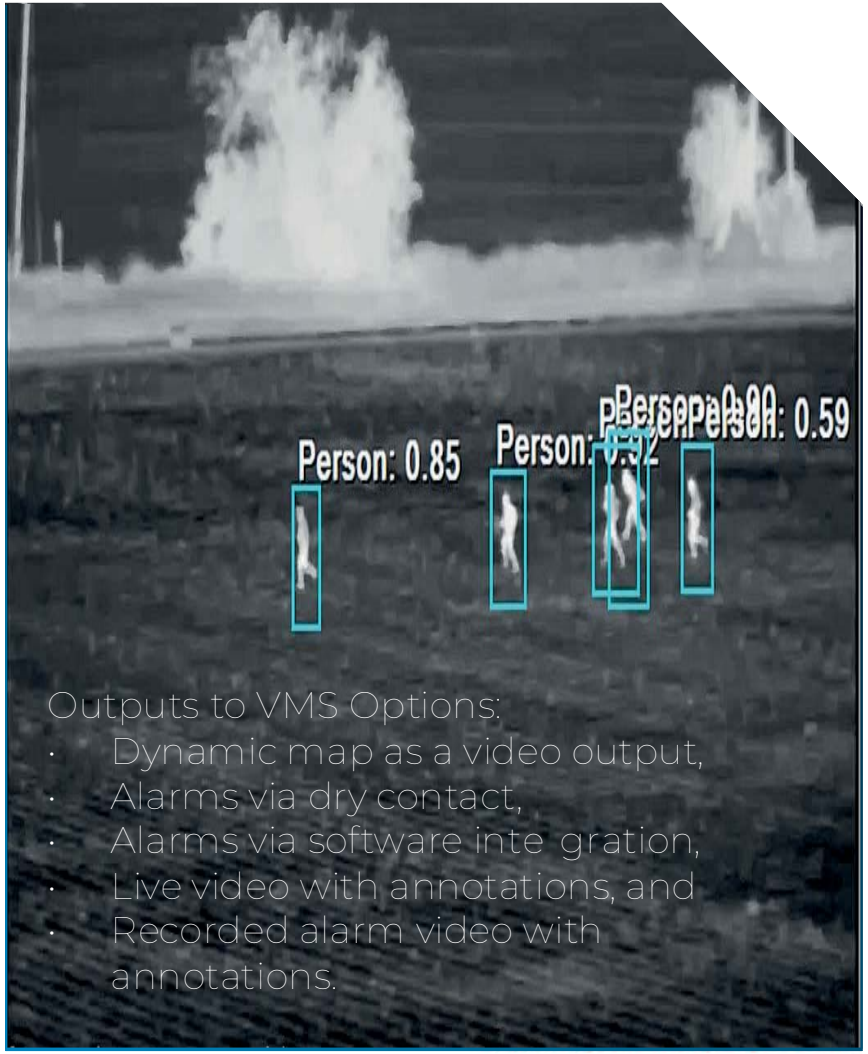
SEEING BEYOND THE OBVIOUS

	Resolution	HFOV	Human Classification	Vehicle Classification
FLIR FC-369O	320x240	69°	15 m	20 m
FLIR FC-344O	320x240	44°	20	40
FLIR FC-669O	640x480	69°	30	45
FLIR FC-644O	640x480	44°	45	75
FLIR FC-317O	320x240	17°	60	100
FLIR FC-632O	640x480	32°	65	105
FLIR FC-625O	640x480	25°	85	135
FLIR FC-617O	640x480	17°	125	200
FLIR FC-610O	640x480	10°	210	340
FLIR FC-608O	640x480	8.6°	245	400
FLIR FC-304O	320x240	4.3°	245	400

Existing or New Fixed Cameras | C4i-Activ Server Device (DAQ) | Your VMS



Existing or New Fixed Cameras | C4i-Activ Edge Device | Your VMS



Outputs to VMS Options:

- Dynamic map as a video output,
- Alarms via dry contact,
- Alarms via software inte gration,
- Live video with annotations, and
- Recorded alarm video with annotations.

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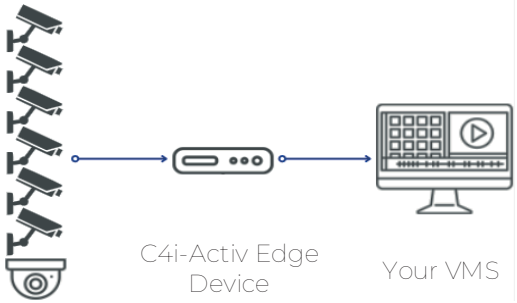
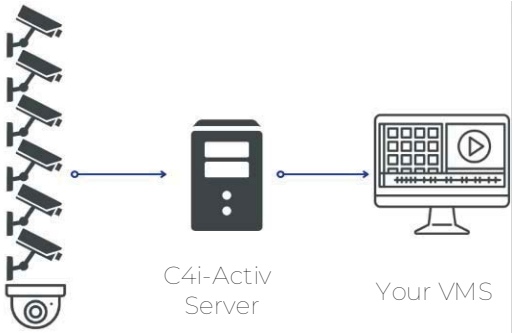
Architecture Example 2 –
Use Fixed Cameras for Recognition with PTZ Cameras for DL Classification

Outputs to VMS Options:

- Dynamic map as a video output,
- Alarms via dry contact,
- Alarms via software integration,
- Live video with a nnotations, and
  Recorded alarm video with a nnotations.



Existing or New Fixed & PTZ Cameras



Existing or New Fixed & PTZ Cameras

	Resolution	HFOV	Human Recognition	Human Classification	Vehicle Recognition	Vehicle Classification
FLIR FC-369O	320x240	69°	30 m		50 m	
FLIR FC-344O	320x240	44°	50		85	
FLIR FC-669O	640x480	69°	65		105	
FLIR FC-644O	640x480	44°	105		170	
FLIR FC-317O	320x240	17°	140		225	
FLIR FC-632O	640x480	32°	145		235	
FLIR FC-625O	640x480	25°	190		305	
FLIR FC-617O	640x480	17°	275		450	
FLIR FC-610O	640x480	10°	475		765	
FLIR FC-608O	640x480	8.6°	555		900	
FLIR FC-304O	320x240	4.3°	555		900	
Axis 6215-LE	1920x1080	2.2°		2,500		4,050

*Distances in meters

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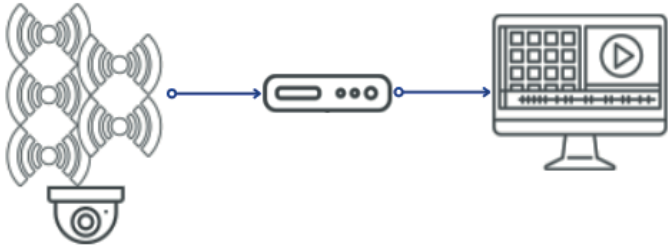
Architecture Example 3 –
Use Radar or Fiber Fence for Detection with PTZ Cameras for DL Classification

Outputs to VMS Options:

- Dynamic map as a video output,
- Alarms via dry contact,
- Alarms via software integration,
- Live video with annotations, and
- Recorded alarm video with annotations.

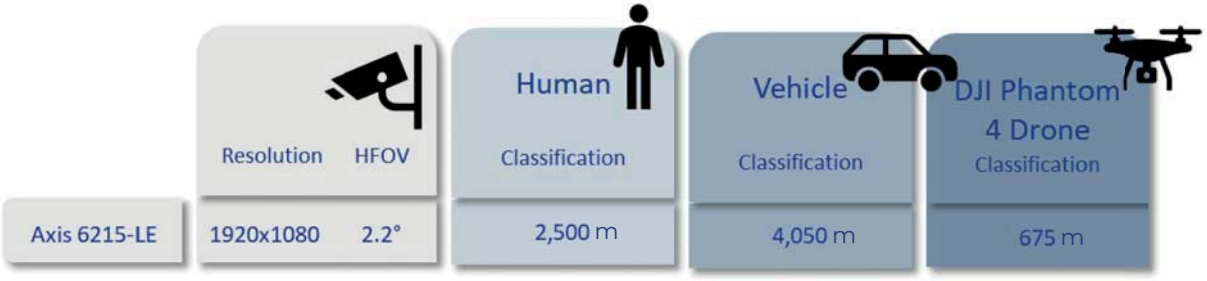


Existing or New Radars & PTZ Cameras

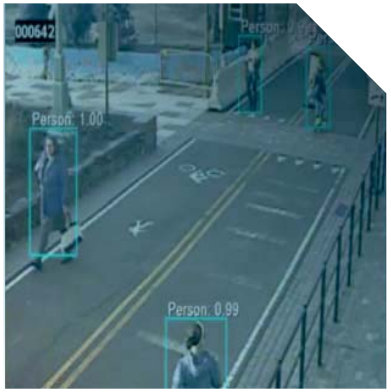
C4i-Activ Edge Device

* Also available on servers

Your Existing VMS

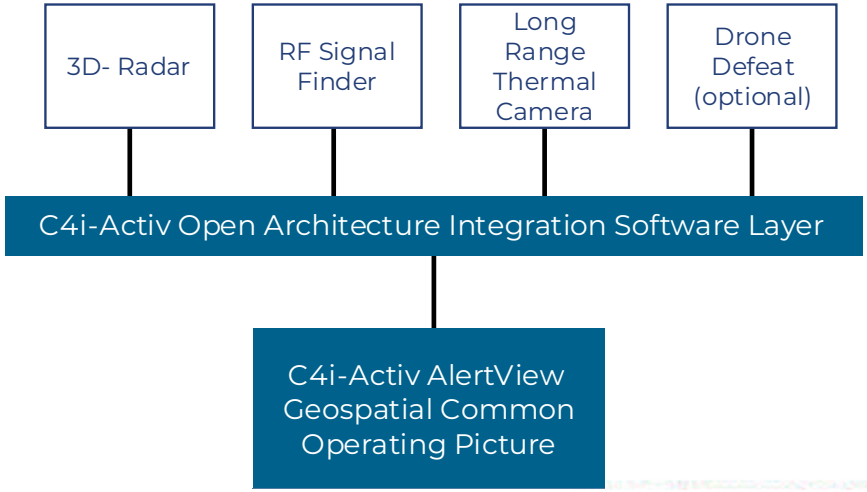


*Assumes 3D Radar such as EchoDyne EchoGuard



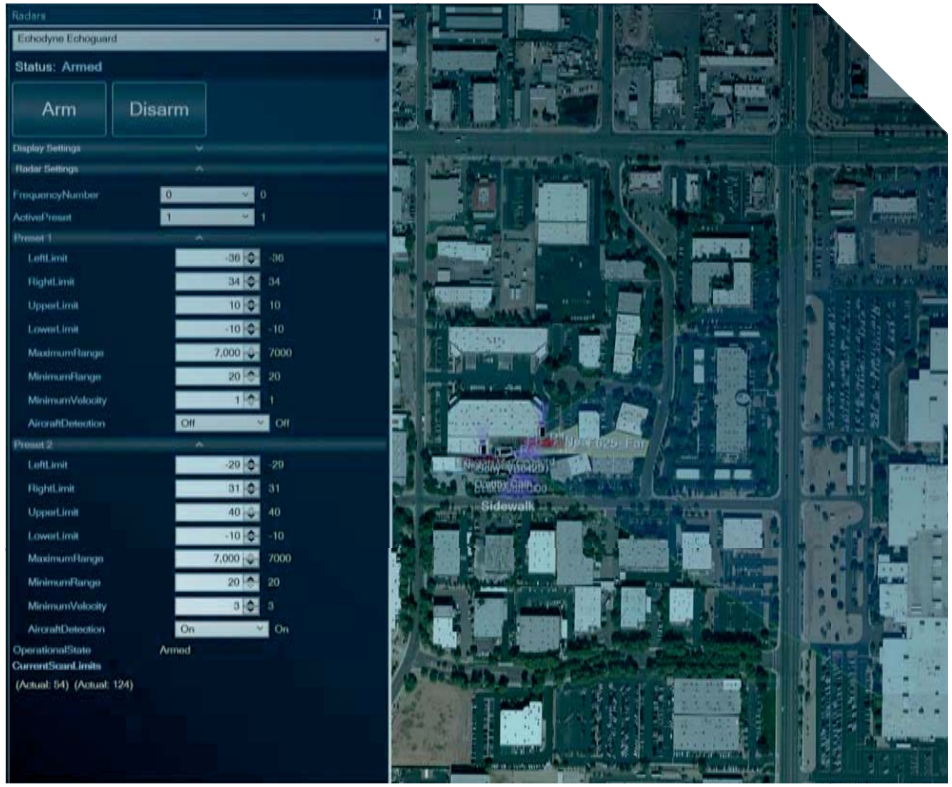
C4i-Activ Counter-UAS

C4i - C -UAS solution provides users with multi-modal autonomous detection, classification, tracking, geolocation, and alerting on both short-and long-range airborne threats. Through seamless integration with geospatial maps, cameras, 3-D radars, and RF Signal Finders it provides security personnel with key information to make rapid informed decisions.



C4i-Activ Echodyne Integration

The Echodyne Echoguard integration screen shot from AlertView.



SWaP and Environmental

Size	20.3 cm x 16.3 cm x 4 cm
Weight	1.25 kg (2.75 lbs)
Power	DC +15 V to +28 V
Operating	< 50 W (Operating)
	< 15 W (Hot standby)
Operating temp	-40°C to +75°C
Weather Protection	IP67

2 km hemisphere of airspace situational awareness from EchoGuard 3D surveillance radars.

Typical tracking ranges for air targets:

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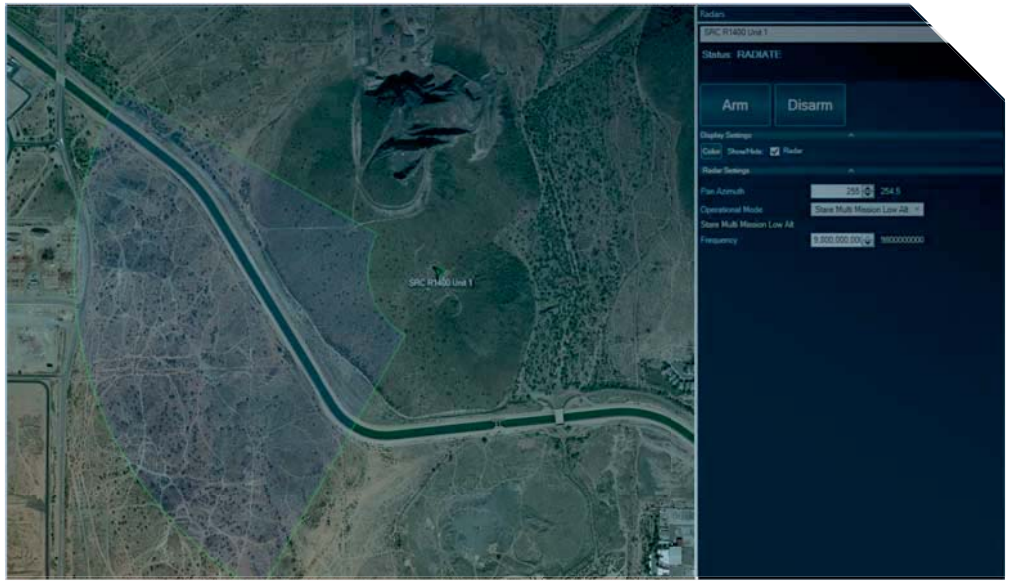
C4i-Activ SRC 1410 Drone Detection Radar Integration

SEEING BEYOND THE OBVIOUS

The SRC 1410 Drone Detection Radar integration screen shot from AlertView.

- Multi-mission surveillance radar
  - Optimized for UAS detection and tracking
  - Capable of air, ground, and maritime multi-mission
- Low cost, X-Band AESA
  - Maximum RF spectrum interoperability
  - Enables better slow-moving target detection
- Fixed E-scan modes for maximum range
  - 3° to 120° non-rotating E-Scan
  - 8km sUAS, 25km small manned aircraft in 90° scan
  - 15km dismounted personnel
- Rotating 360° modes for maximum coverage
  - 6.5km sUAS, 23km small manned aircraft



Target	RCS		90° Coverage Fixed Panel			360° Coverage Rotating Panel		
			Detection Range		Revisit Rate	Detection Range		Revisit Rate
	m²	dBsm	km	nmi	s	km	nmi	s
Small UAS	0.03	-15	8	4.3	2.2	6.5	3.5	2.2
Single Person*	0.5	-3	15	8	2.6	11	6	5.6
20' Boat*	2	3	19	10	2.6	16	8.5	5.6
Small Manned Aircraft (Cessna)	3	5	25	13.5	2.2	23	12.5	4.7
Vehicles (Pickup Truck)	10	10	28.5	15.5	2.2	27	14.5	4.7
Large Ship*	31.5	15	40	21.5	2.6	31	16.5	5.6

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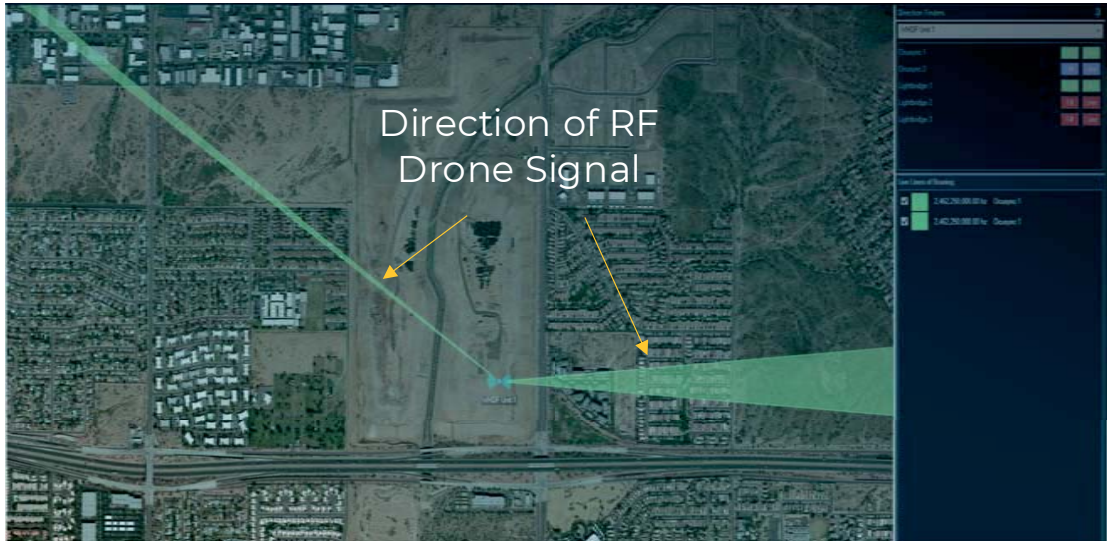
C4i-Activ Whisper Hunter RF Drone Signal Detection & Classification Integration

The Whisper Hunter is an RF Drone Signal Detection and Classification sensor.

- Passively detects RF Signal and Protocol
- Software-defined radio system Uses SRC's micro-transceiver SDR
- Customers include
  - US Army, US Air Force, US Navy
- Coverage: 360° Azimuth, -32° to +48° Elevation
- Frequency coverage: 400 MHz to 6000 MHz



The Whisper Hunter integration screen shot from AlertView.

C4i-Activ AlertView Common Operating Picture

SEEING BEYOND THE OBVIOUS

1. Improves site security by automating perimeter detection, deterrence, and response and improving situational awareness.

2. Lower total system purchase and support costs.

3. Dramatically increases operator productivity. (force multiplier).

C4i-Activ Common Operating Picture

- ✓ Single Common Operating Picture for entire perimeter system. Unifies operation of disparate cameras and sensors.
- ✓ Utilizes existing cameras, radars, fence sensors, access control, NVR, network.
- ✓ Eliminate up to 95% of nuisance alarms.
- ✓ Easily Scales to fit your budget and needs today and tomorrow.
- ✓ Live data on Geospatial map enhances situational awareness.
- ✓ Autonomous PTZ camera lock-on-target tracking keeps intruder in camera view.
- ✓ Live and recorded video.
- ✓ Forensic search speeds investigations.
- ✓ Alarm search and export for reporting.
- ✓ Simple click to dispatch drone to alarm location.

C4i-Activ AlertView Geospatial Common Operating Picture

Analytics Support all behaviors:

- ✓ Zone Entry/Exit,
- ✓ Stopping,
- ✓ Loitering,
- ✓ Crowding,
- ✓ Travel Path,
- ✓ Object left behind,
- ✓ Crawling, walking, running,
- ✓ Wrong Direction of travel,
- ✓ Thrown Object,
- ✓ Removed Object,
- ✓ Person & Vehicle Tailgating, and
- ✓ Counting.

- ✓ Extensive system health monitoring.
- ✓ Longer detection ranges reduces infrastructure cost by 30%.
- ✓ ATAK/WinTAK integration for mobile situational awareness.
- ✓ GPS integration for Friend/Foe determination.
- ✓ Access Control integration – alarms and lock doors.
- ✓ AIS ship transponder integration.
- ✓ Deterrents – loud hailer/speaker, strobe lights.
- ✓ Deployable on relocatable RDAPSS Trailer.

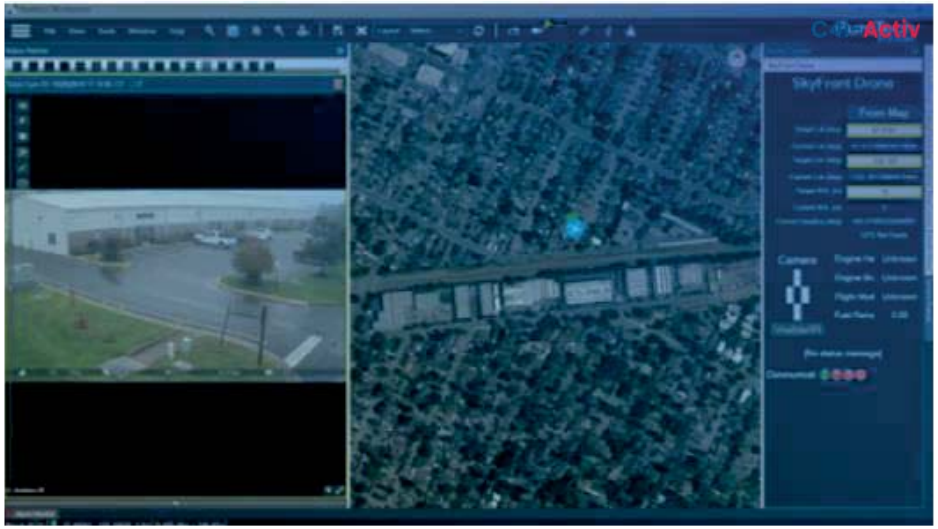
C4i-Activ AlertView Real-Time Alerting with Intruder Location & PTZ Auto-Follow

C4i-Activ AlertView COP Features

- Autonomy Geographic Monitoring Zones
- Live video viewing
- Recorded playback
- PTZ Camera control
- Spotlight, laser illuminator and laser range finder controls
- Geolocation of IoI using just camera
- Map layers
- Alarm Monitor
- Health monitoring
- KML import/export
- Alarm management
- Radar Integration
- LGDS integration
- Tilt Sensors Integration
- Drone tracking
- Landmark creation/mgt
- Drone dispatch
- Forensic search
- Alarm Search
- Alarm list export
- TAK Integration
- TSM Integration

C4i-Activ Drone Dispatch to Alarm Location

- C4i-Activ enables users with the ability to dispatch a drone to a given alarm location.
  - The alarm is generated,
  - User pushes a single button to investigate the alarm, and drone automatically flies to the alarm location, and
  - User clicks on map to set a new way point.
- The integration is with Skyfront (MavLink ground station protocol).



Drone Dispatch Demo

Drone DL

C4i-Activ Radar Integrations

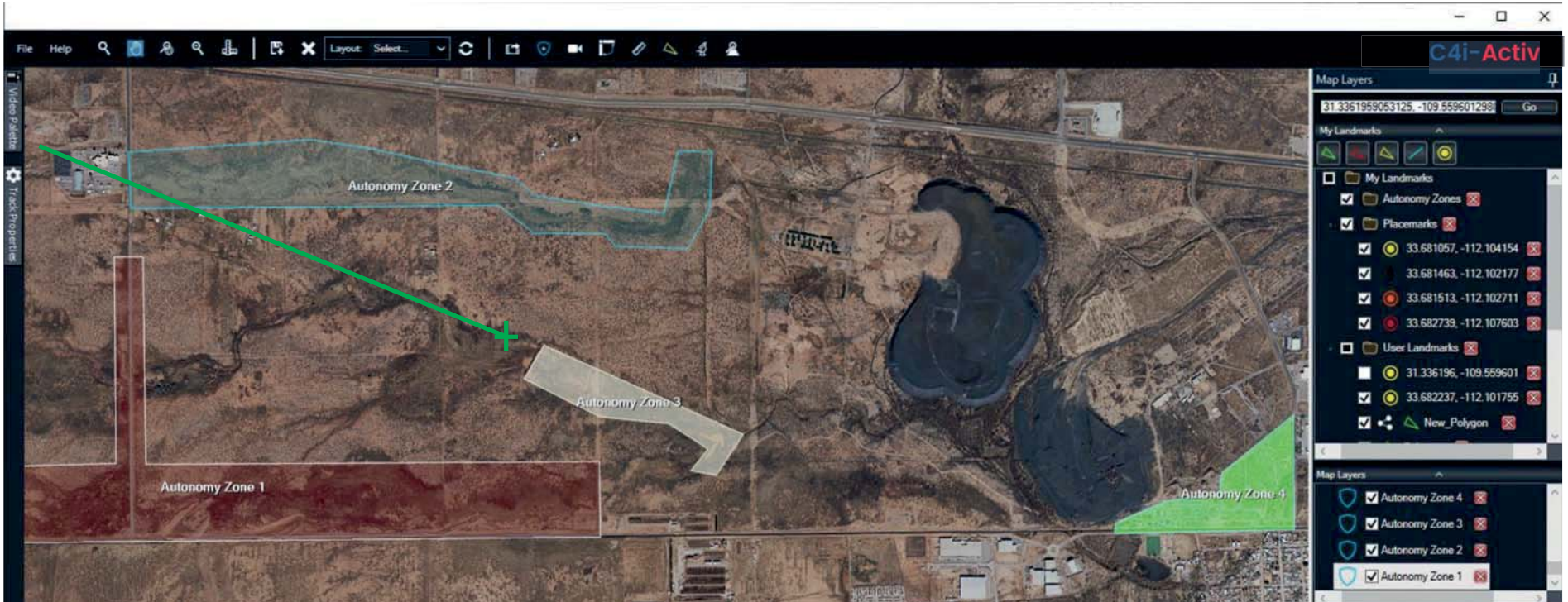
- Complete integrations including configuration, live track management, track filtering and searching.
- C4i-Activ supports short-and long-range ground and drone detection radars.
- Track fusing from multiple radars and C4i-Activ AI Video Analytics, reduces multiple alarms for the same intrusion event.
- Can pair with other sensors to help seal perimeters

Radar Functions Demo

Map Based Target Selection (Radar)

Autonomy Zones

- Autonomy Zones are special geographic polygons that allow for alarming on various tracks in the autonomy zones.
- Autonomy zones can be assigned priorities, along with the target types detected.
- Alarming can require/not require DL (Deep Learning) Auto-Verify (i.e. Identification).
- Upon alarming, PTZ cameras can automatically follow the target. PTZ Auto-follow can follow a specific target (i.e. feature tracking).
- Alarms generated from these zones are displayed on the map and in a prioritized alarm monitoring queue.



Autonomy Zones: Priority Queue

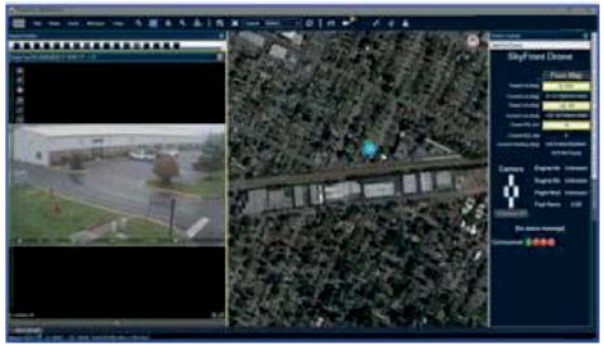
The alarms created by the autonomy zone appear in the Alarm Monitor

Still Image of Detection

Instant Replay

Live Cameras

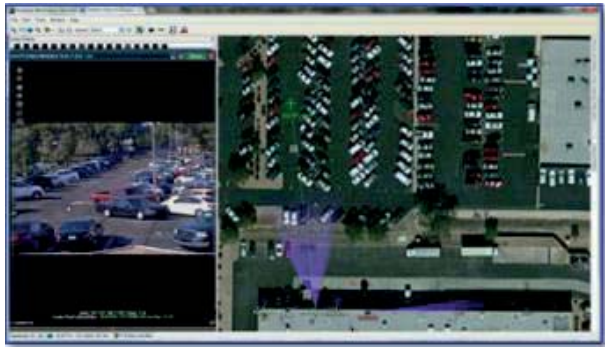
C4i-Activ AlertView COP Videos



Drone Demo

Fence Alarm

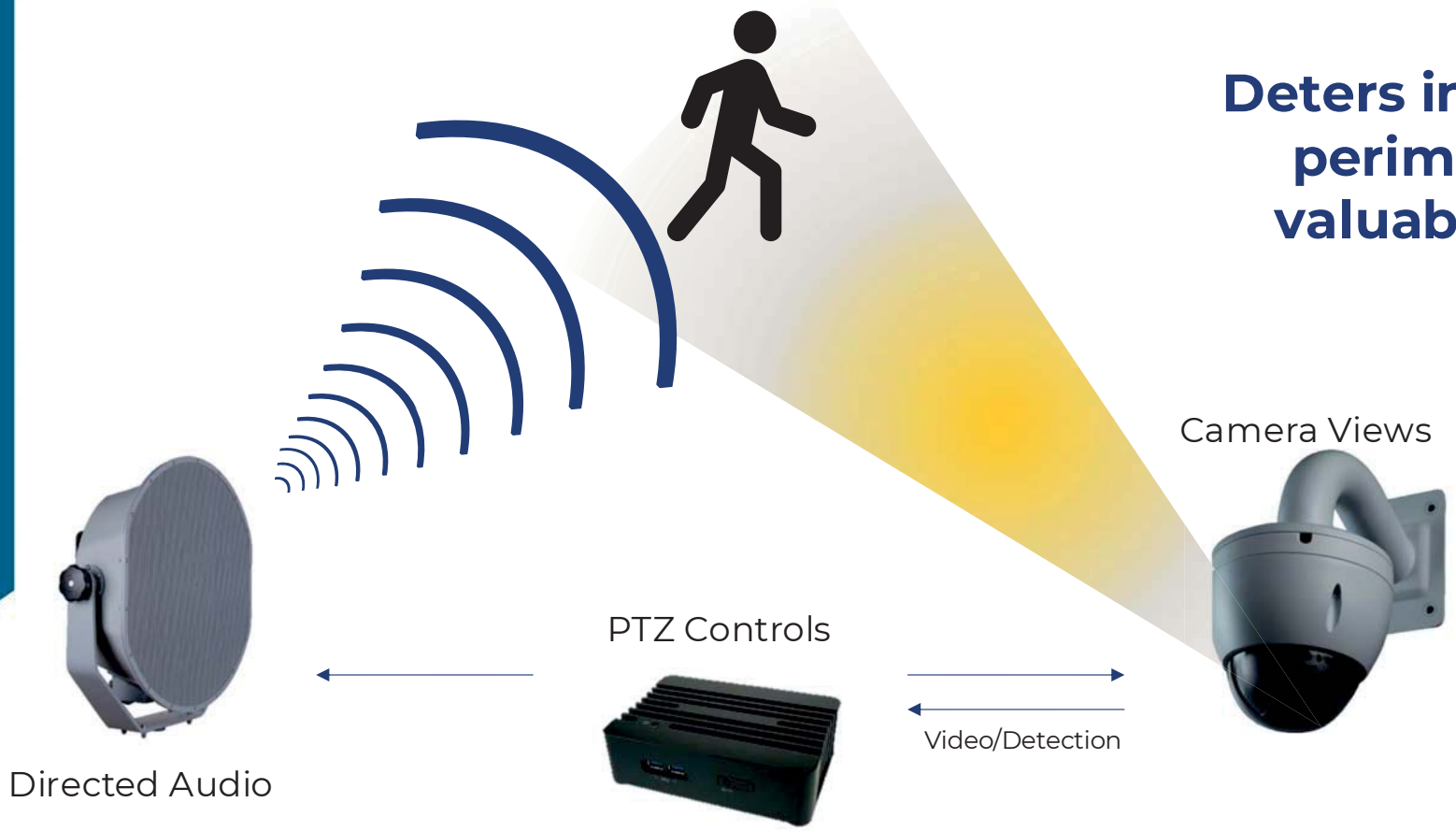
AlertView Placemarker



Camera Control

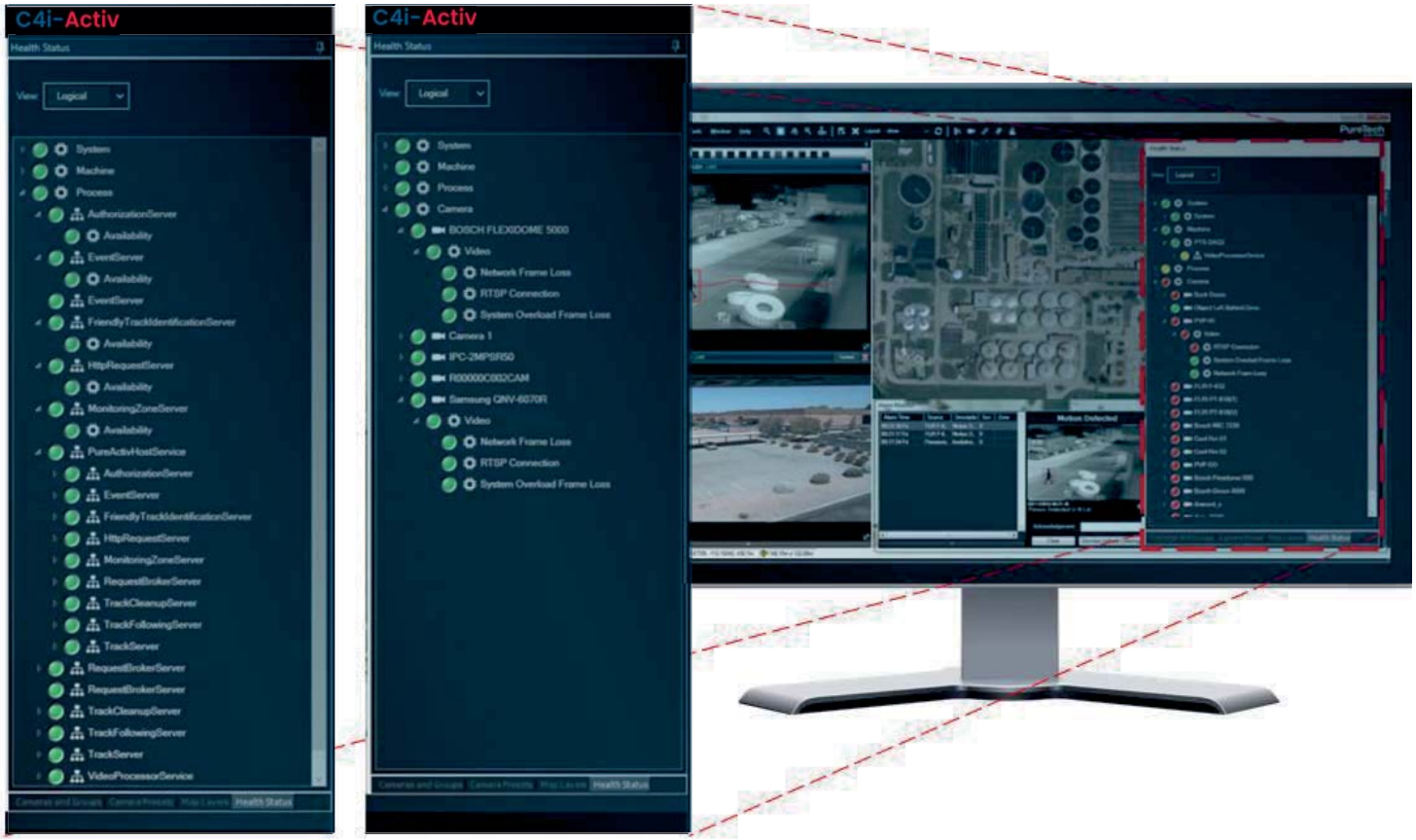
Multi-Sensor

C4i-Activ Autonomous Non-Lethal Acoustic & Laser Dazzler Deterrents



Deters intruders away from perimeters, increasing valuable response time.

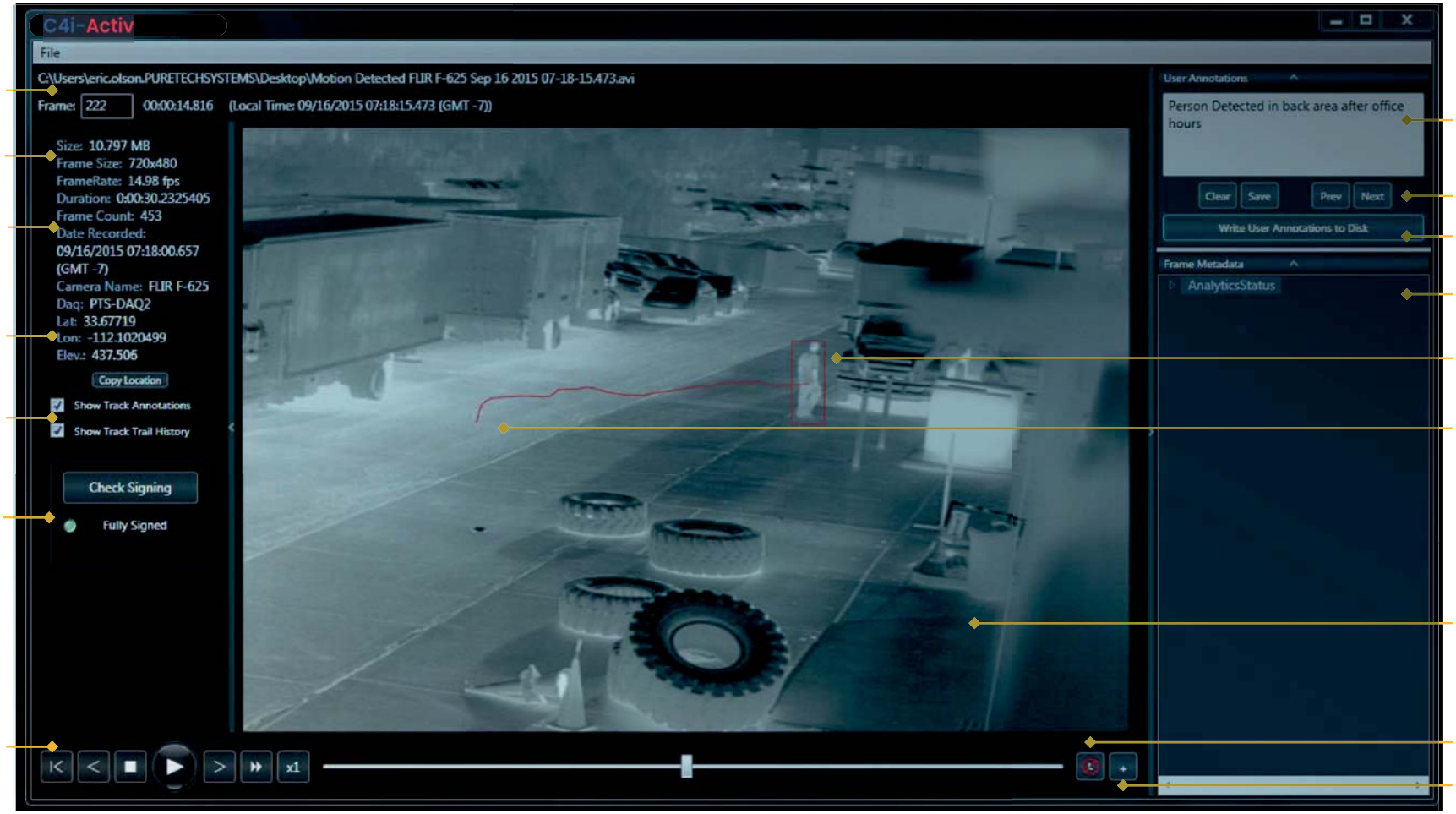
C4i-Activ Extensive Real-Time System Health Monitoring



In-depth monitoring of internal and external processes and communications.

Enables rapid break-fix. Maximizes up-time.

C4i-Activ Video Player



Current Frame

Video Details

Recording Source Info

Camera Location

Annotation Control

Digital Signing

Playback Controls

User Annotations

Annotation Search

Save Annotations

MetaData Config

Bounding Box

Track Trail History

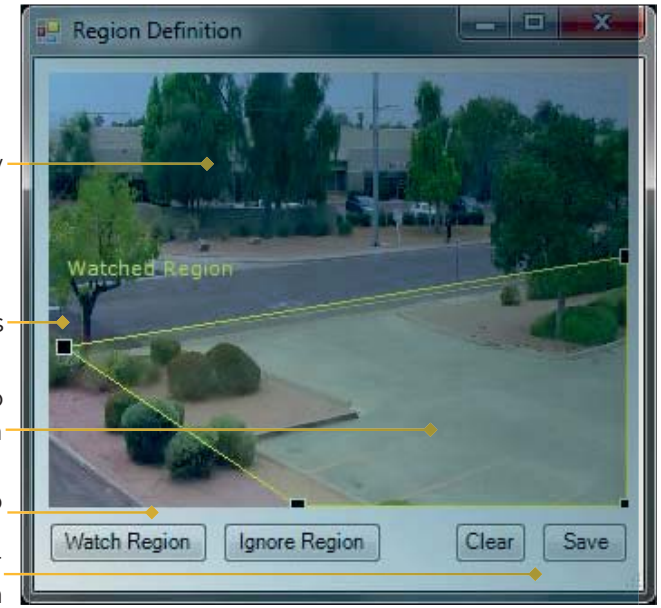
Recorded Video

Video Looping

Control Overlay

Digitally Signed Video & metadata provide frame by frame details.

C4i-Activ Forensic Search



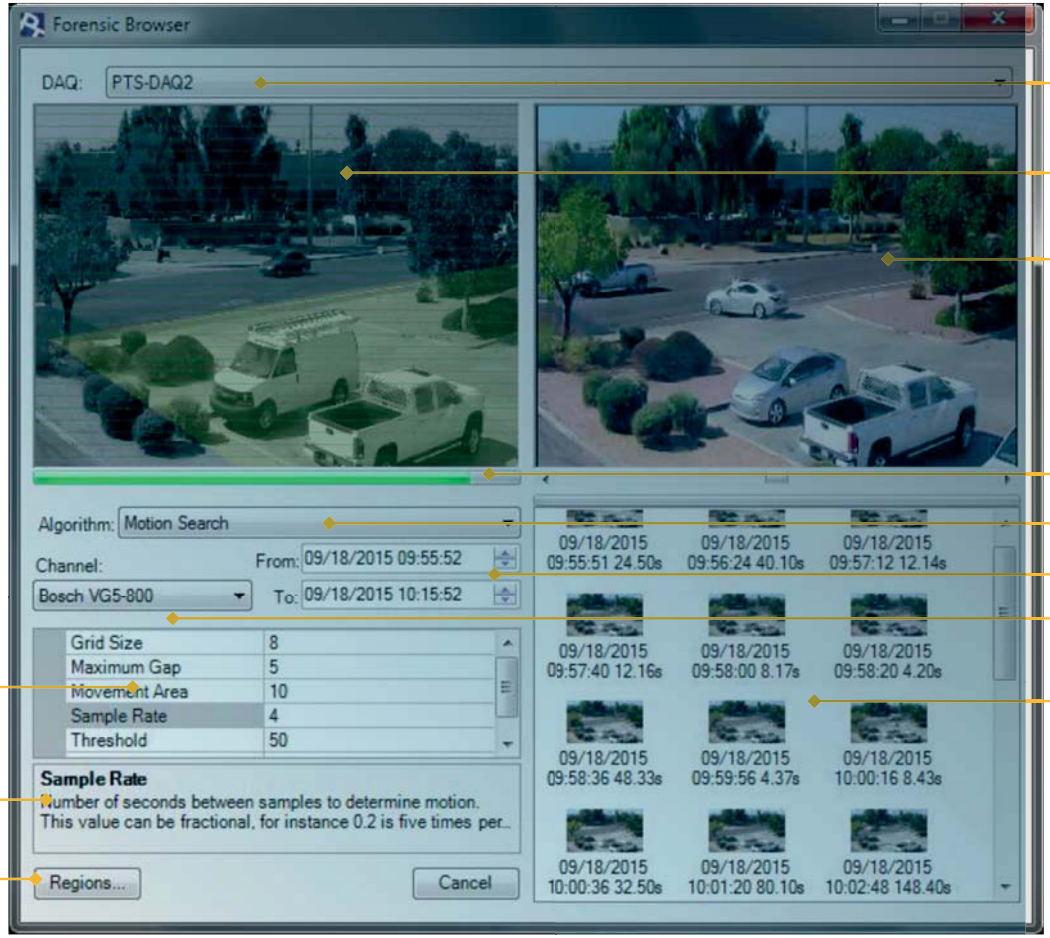
Camera View

Region Vertices

Region to Search

Region Setup

Save/Clear Region



Server

Search Window

Video Playback

Progress Bar

Search Type

Time Period

Camera Source

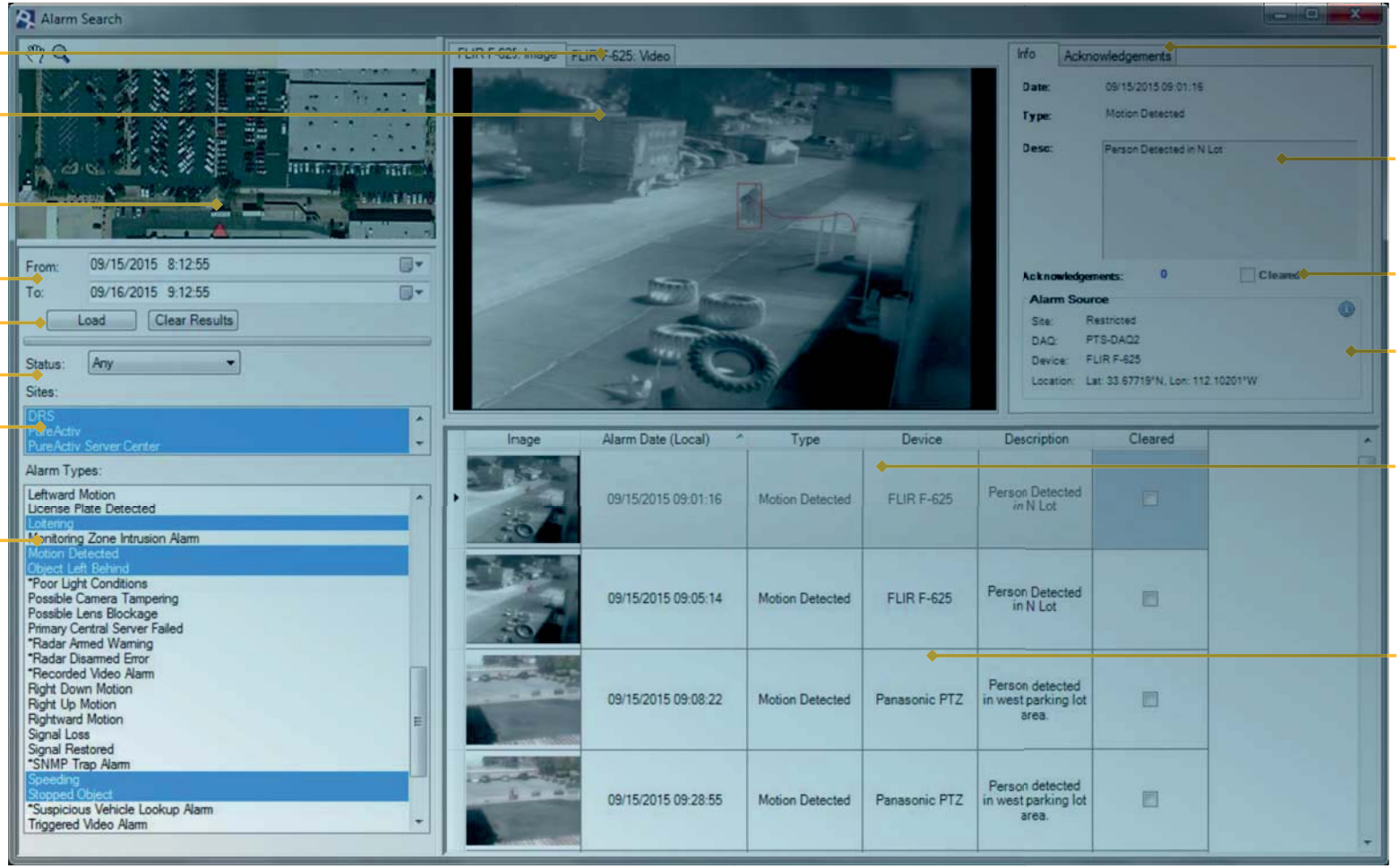
Search Results

Advanced Search

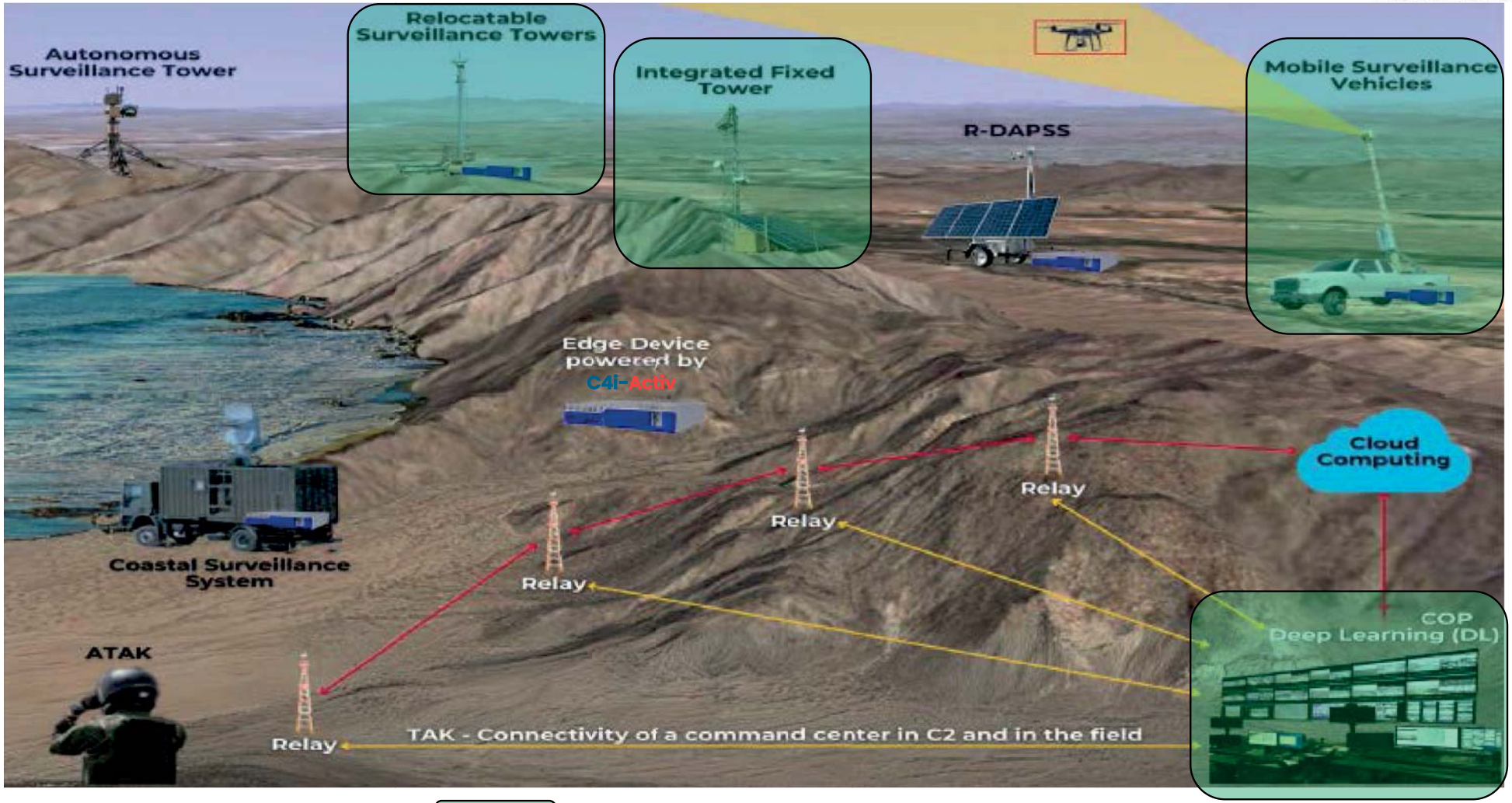
Help Window

Region Setup

C4i-Activ Alarm Search



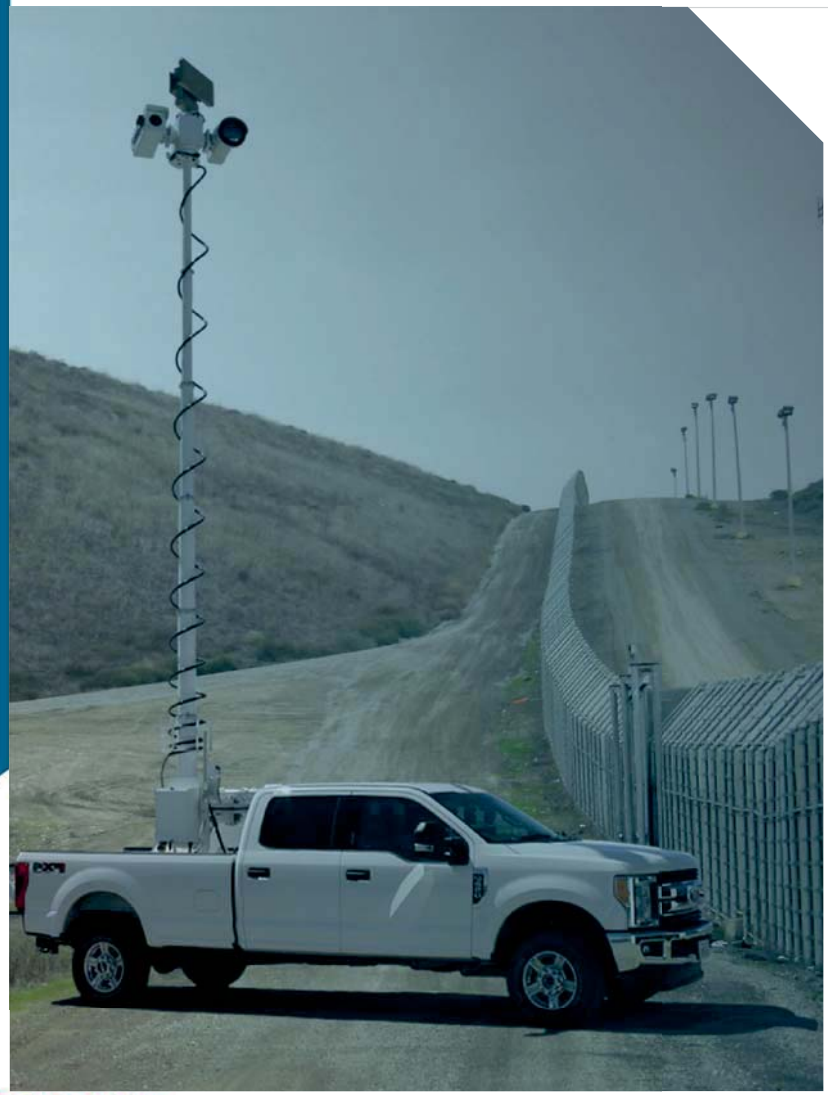
C4i Communication Autonomous Border Surveillance Solution



= C4iTech Software on Programs of Record

www.c4icommunication.com

Mobile Surveillance System



The MVSS platform utilizes C4i Communication Systems' C4i-Activ software as its central command and control, providing AI enhanced video detection and classification, user interface display, and sensor collaboration logic for the surveillance suite. The suite consists of visible and thermal cameras, laser illuminators and range finders mounted on telescoping masts located in the back of commercial pickup trucks

• Rapid deploy in 5 minutes.

• Geospatial map system shows location of detected targets and dropped bundles.

• Automatic detection, tracking, and classifying of humans up to 7.5 miles and vehicles up to 10 miles.

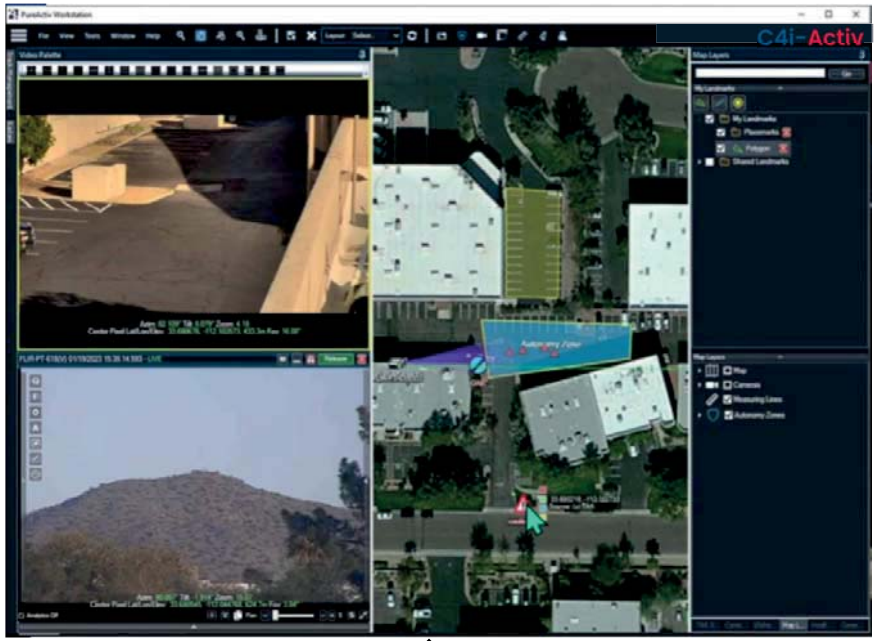
• Deep learning neural net technology for auto-verification of target classification; dramatically reduces nuisance alarms due to animals and weather induced noise.

www.c4icommunication.com

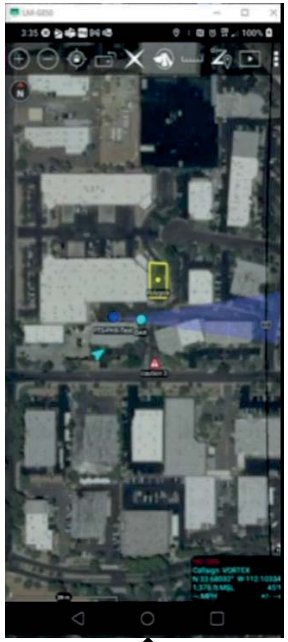
C4i-Activ AlertView
TAK Android and iOS Application Integration

The C4i-Activ TAK Integration allows users to:

- Share location data of sensors and agents.
- Add and share place markers.
- Display camera frustums in TAK phone application.
- Display detected drones and ground targets in TAK phone application.
- Display agent and BF drone locations with TAK application in AlertView.
- Send and receive images and video.



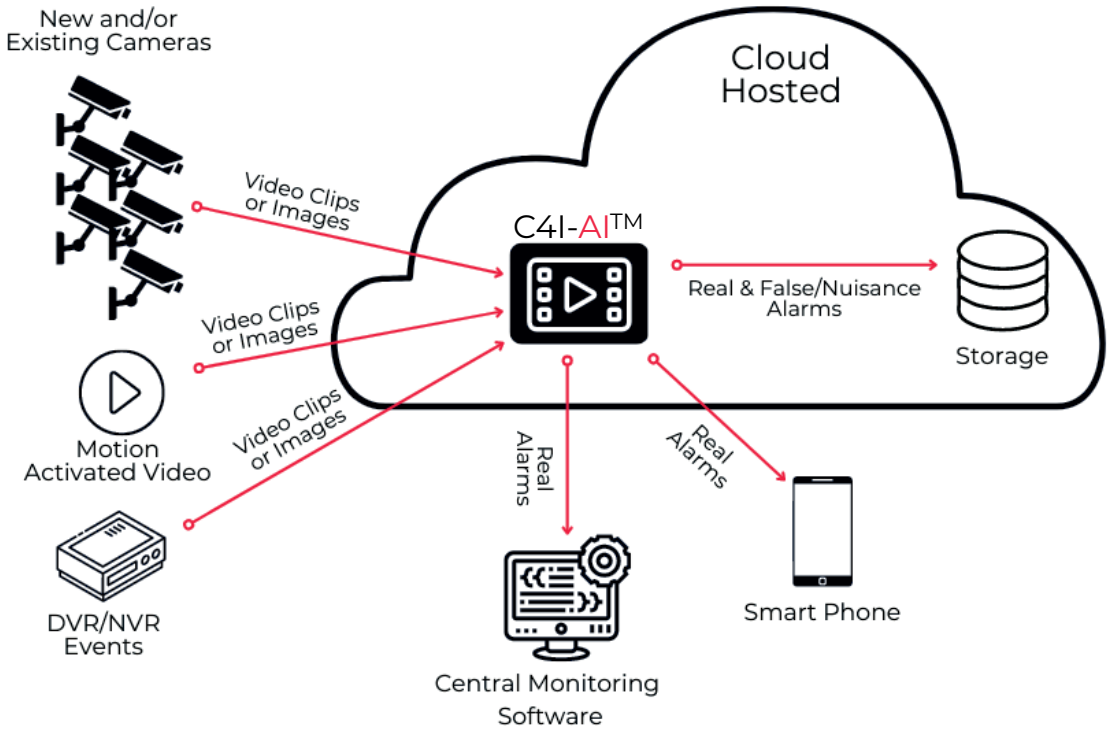
AlertView Screen on Computer



ATAK Screen on Android phone

TAK is Used by U.S. DHS and U.S. Military

C4i-AI Cloud Based Alarm Filtering Solution



Nuisance Alarm Elimination on Your Existing System

* patented

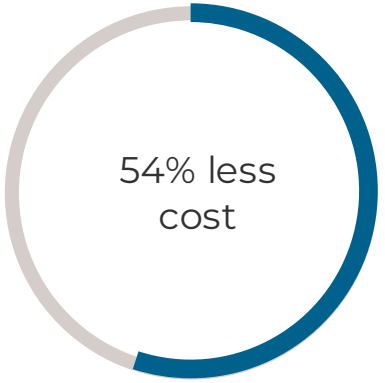
C4i-Activ R-DAPSS

C4i Tech's C4i-Activ Rapid-Deploy Autonomous Perimeter Surveillance System enables airports, borders, military bases, seaports, and utilities to quickly deploy a temporary or permanent high fidelity virtual perimeter system at substantially less cost and time than a hardwired solutions.

ADVANTAGES
Autonomous sealed virtual perimeter.
Scales to small and large sites.
Easily expandable.
Permanent or relocatable installs.
24/7 all weather protection.
Near 100% detection with guaranteed near zero false/nuisance alarms.

www.c4icommunication.com

R- DAPSS Virtual Perimeter Time & Cost Comparison to Fixed Installation



On average, it takes 24 months to set up a traditional perimeter, which includes, conduit, cabling, trenching, pole, pole foundation, and installation. For the R-DAPSS, it only takes 120 days for complete system set-up.

*According to Jacobs Engineering

VisionView 180-degree Camera System

VisionView 180° Camera

The VisionView 180°is an advanced camera system that features six imagers (3 day/night and 3 uncooled thermal) that combine to provide 180° panoramic coverage day, night and in other low visibility conditions.

ADVANTAGES

- Enhances Protection of Country Borders, Coastal Areas, and Critical Perimeters.
- C4i Tech's geospatial outdoor video analytics for detection, tracking, classification and PTZ slew-to-cue (optional).
- Integration with C4i Tech's C4i-Activ AlertView Command and Control Software.
- Compatible with other NVR/VMS/PSIM systems.
- Internal managed Ethernet switch with single military grade RJ45 connector.

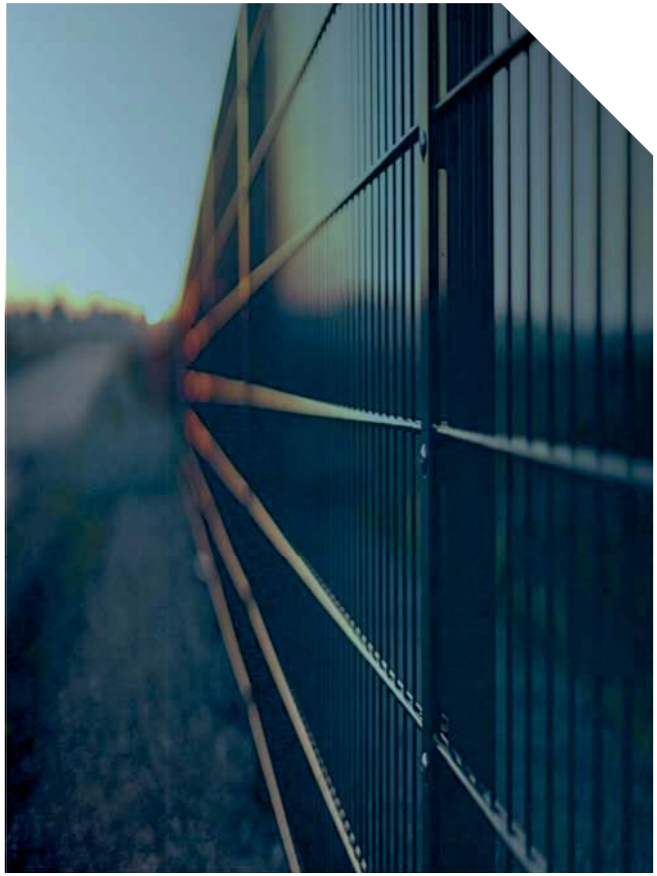
Key Benefits of C4i-Activ

SEEING BEYOND THE OBVIOUS

1. Improves site security by automating perimeter detection, deterrence, and response and improving situational awareness.

2. Lower total system purchase and support costs.

3. Dramatically increases operator productivity. (force multiplier).



C4i communication

LEARN MORE: c4icommunication.com

FOR MORE INFORMATION: contact@c4icommunication.com or +1 (302).981.1340