

**Base and Deployable
Automated Video Surveillance Systems**

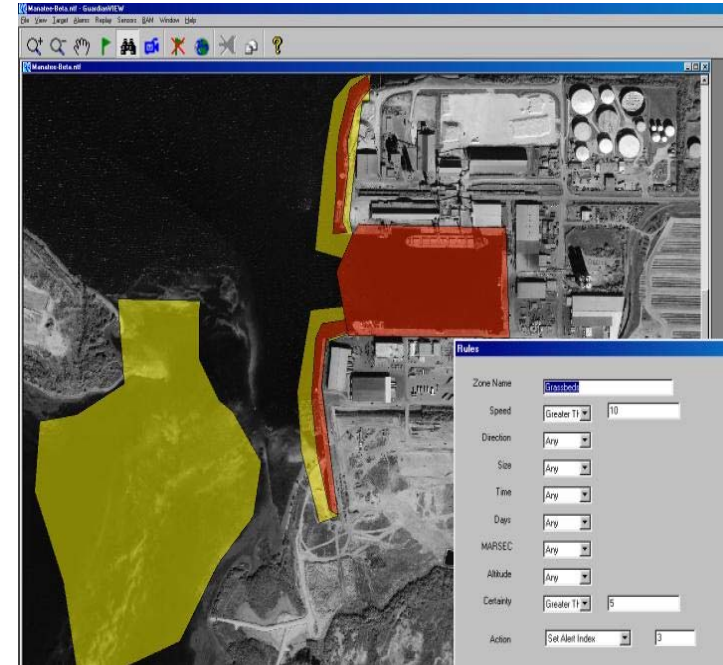


Guardian
Solutions

Automated Video Surveillance



Detects & Tracks Activity



Processes Video Data

Compares to a User Defined Alarm Map

Security Breach?



A Force Multiplier Technology

- **Guards**
 - **Human Fatigue & Errors**
 - **Guard Turnover**
- **Budget Constraints**
 - **“7% annual increase in guard expenditures (\$ 1 billion/year) through 2006”**



Automated Video Surveillance



Real-time processing of video/IR data to mitigate intrusions through automated...

- early target detection
- rapid threat assessment
- communication throttling
- responder notification
- event logging

COTS product...

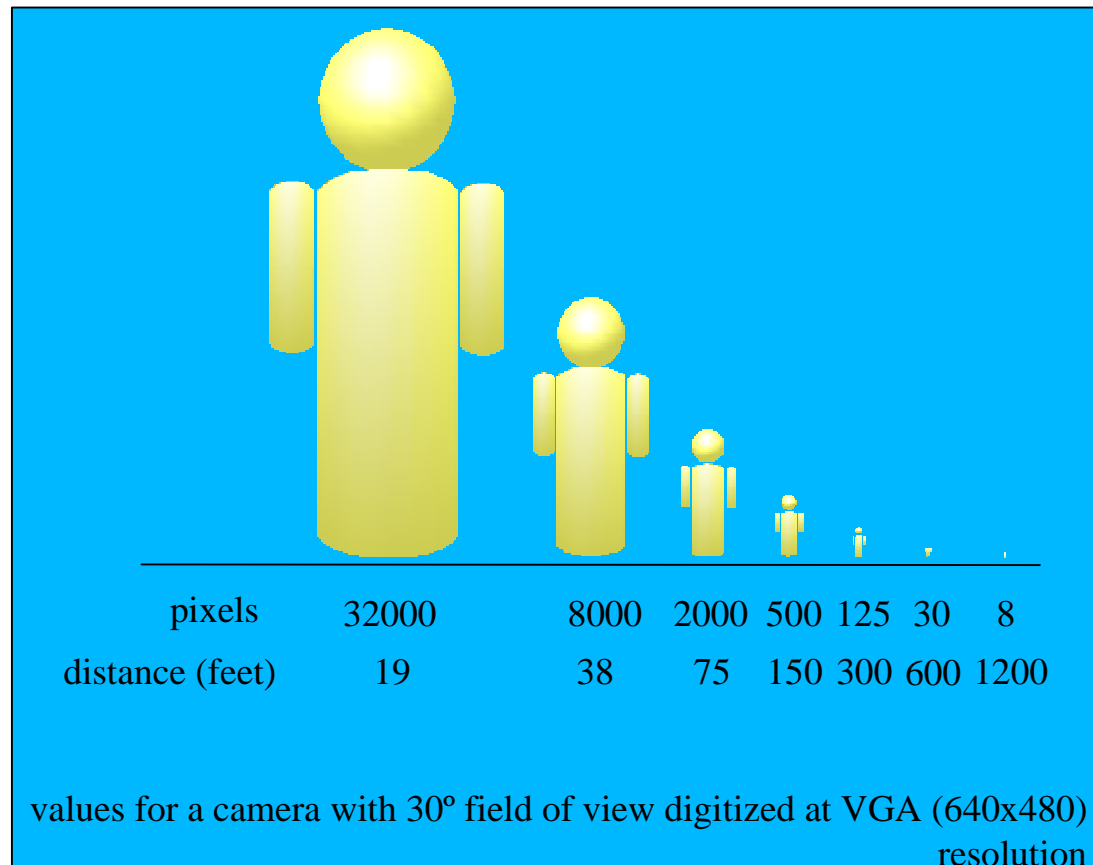
- standalone system or
- integrated within a layered security system



Early Threat Detection



Pixels on Target



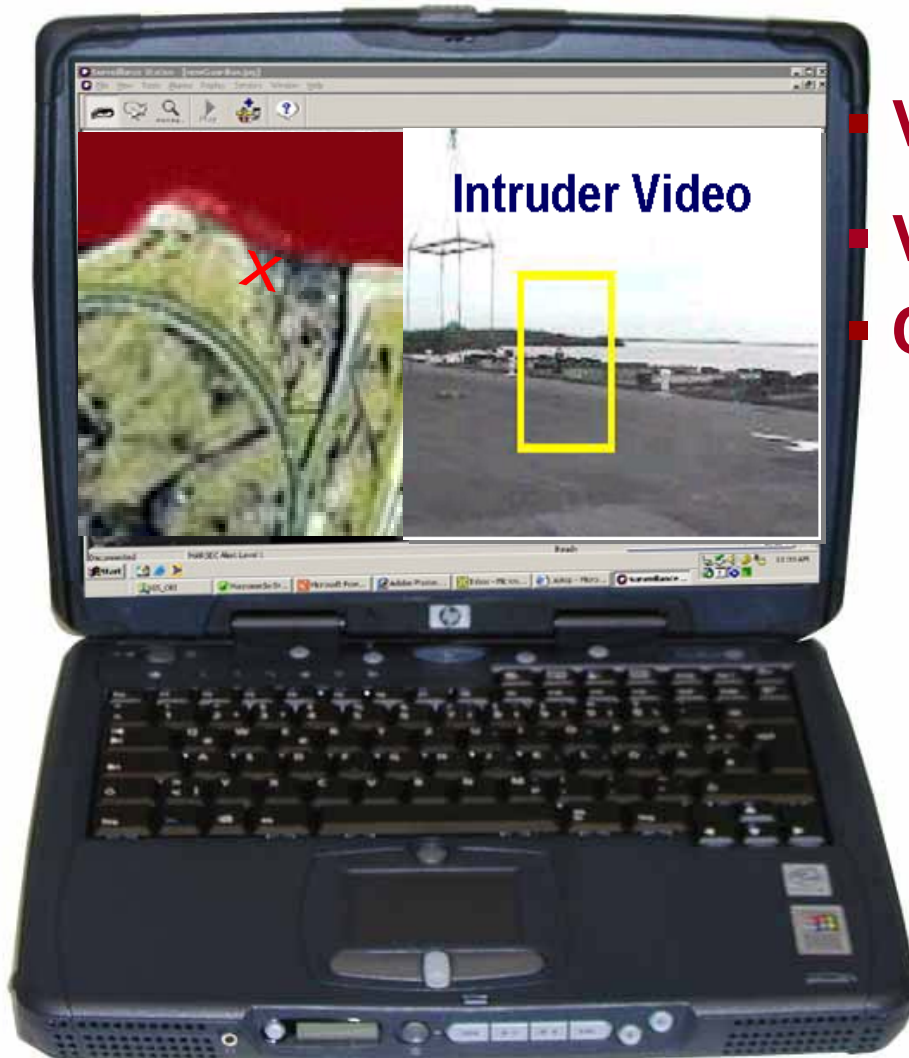
Thermo Tracking 1

Thermo tracking 2

Rapid Threat Assessment



Geo-referenced Situation Display and Continuous Video



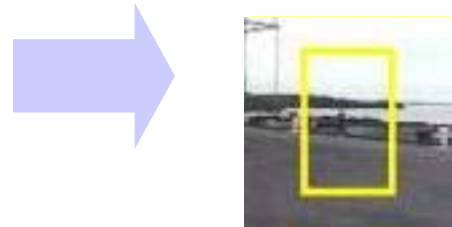
- Video during & after breach
- Video recording & playback
- Continuous Intruder tracks

Benefits

Communication Throttling



Prioritize Target Information Based upon Available Bandwidth



Video Background



Continuous Video Chip of Intruder

LAT/LONG



Intruder Location & Tracks



Responder Notification

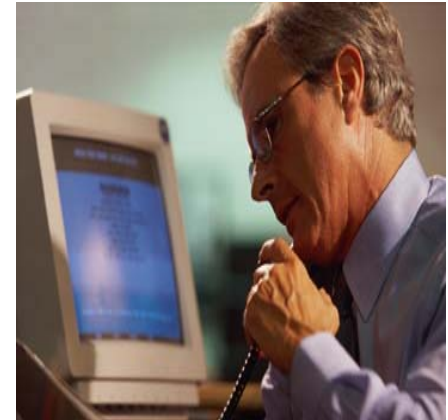


Network Solution



Local

Off-site



**Compliant with emerging
NGA (formerly NIMA) standards**



Automated Video Surveillance Applications

Autonomous detection, assessment, notification & logging

Established Perimeter Security

High Value Asset Security

Waterfront Security

Rapid Perimeter Security

Field Sensor Fusion

Advanced Assess Control

GuardianWATCH...

Enterprise/Static Base System



- Interfaces to Existing Cameras
- Controls 100's of Cameras
Video/IR
Fixed/PTZ
- Runs on PCs
- Integrates with other systems



Rapidly Deployable/Dynamic System



- 1 to 6 video surveillance stations
- Wireless encrypted comms
- Rugged PC command station
- Shipped in Pelican cases

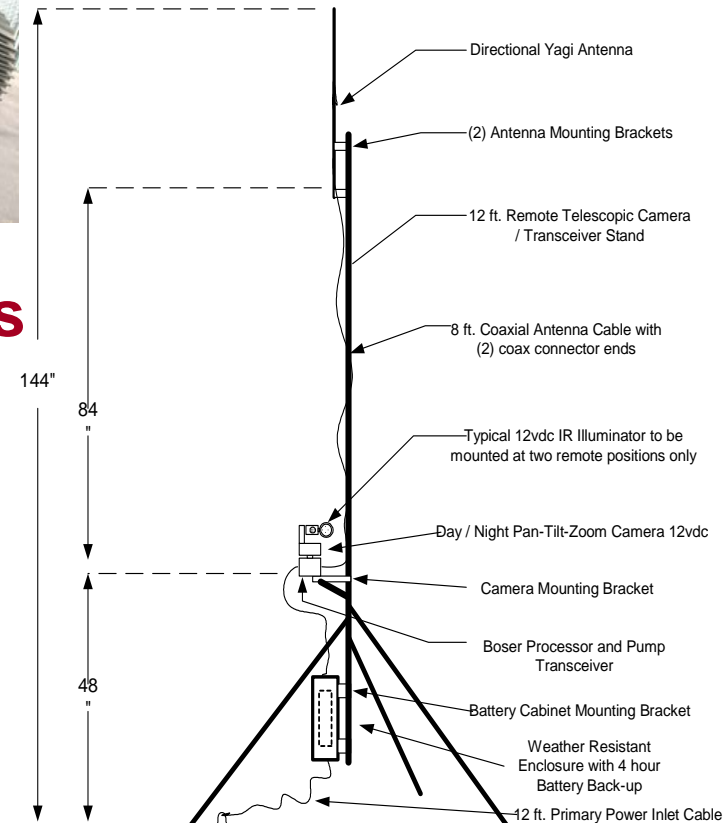


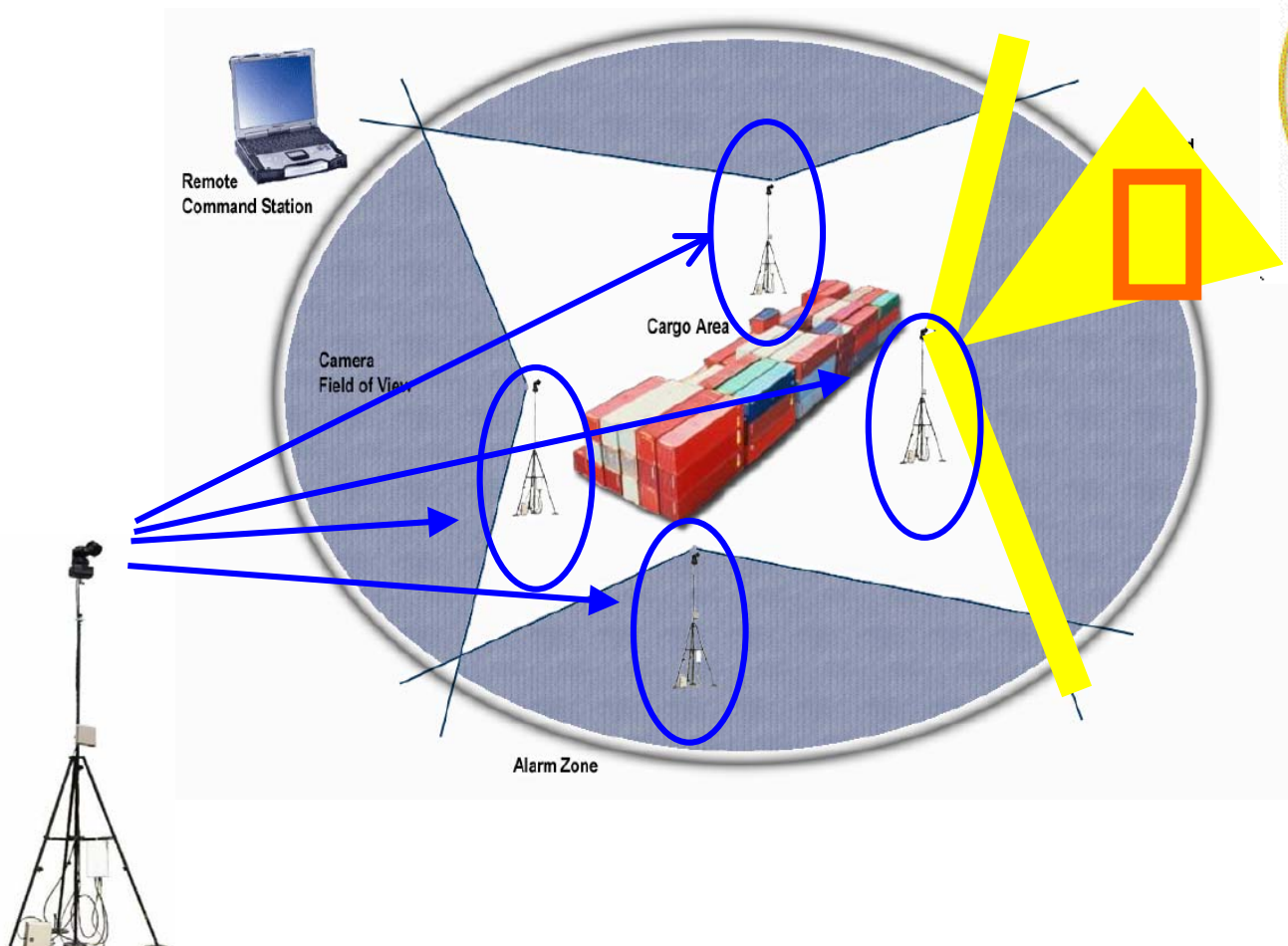
Figure 1.2 Remote Camera / Antenna Stand

Four Remote Camera / Antenna Stands shall send and receive signals to the Central Omni-Directional Antenna Stand. The Remote Antennas shall transmit signals up to 1000 ft. over the same common frequency. The Remote Cameras and IR Illuminators shall maintain operation for up to 4 hours after primary power has been removed.

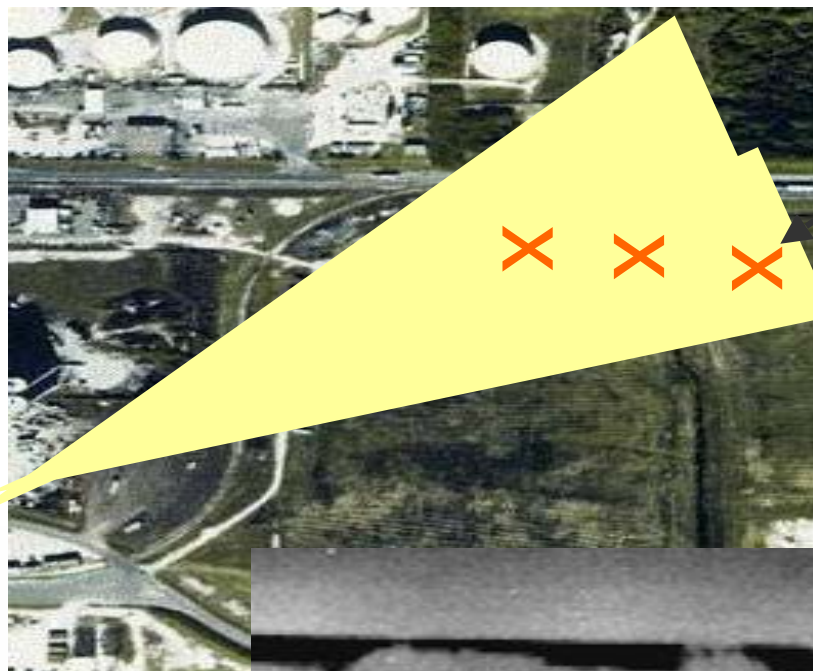


High Value Asset Security

ThreatSTALKER Deployable – Portable Automated Video Surveillance



Automated Video Surveillance Layered with Forward Sensors



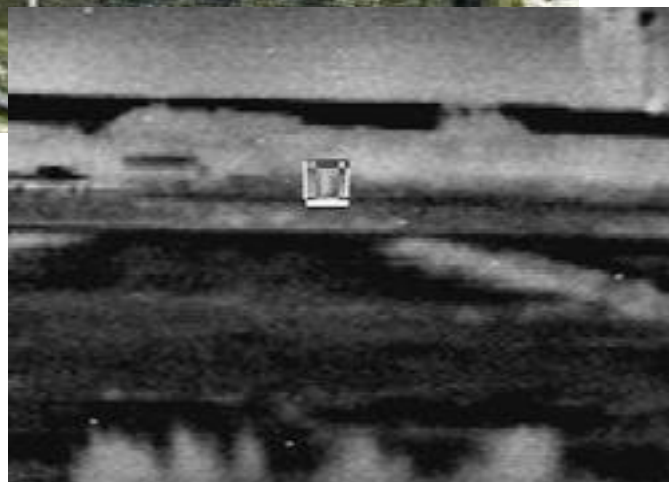
Ground Sensor Triggered



Pan-tilt-zoom camera slews to location

Camera detects and tracks intruder

Responders receive live-video & tracks on a situation display



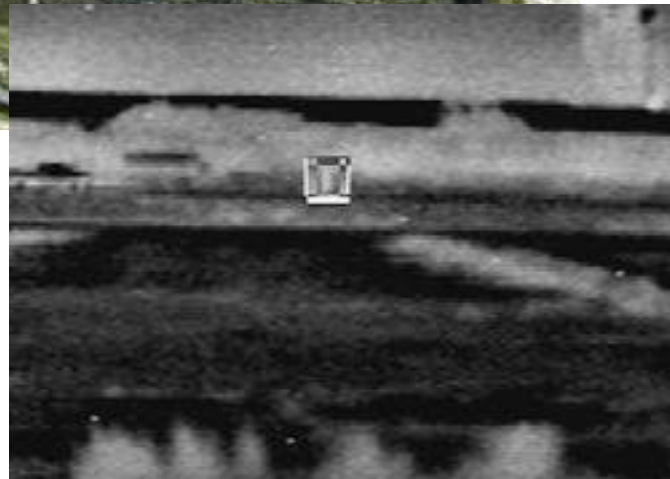
Stand-alone Automated Video Surveillance



**Pan-tilt-zoom camera
performs automated tour
of area**

**Camera detects and
tracks intruder**

**Responders receive
live-video & tracks on a
situation display**





Detecting Targets Within All Perimeters

Water Basins

Woods

Grasslands

Urban Environments



Guardian's Unique Capability



- World Class Security Team
- Real-World Spiral Development Site

World Class Security Team



Bill Klein (ret. Maj. General, SOCOM), Chairman

- Director of Operations and Training, U.S. Joint SOCOM
- Chief of Staff of the 25th Infantry Division, Chief of Staff of the Corps and Fort Bragg,

XVIII Airborne



Ray Humphrey, Director of Global Business Development

- Security Director Digital Equipment Corporation and Xerox
- President, ASIS
- Former Board Member, Internat'l Association of Chiefs of Police Foundation



Russ Myers, Chairman, Technology Advisor Board

- Recognized DOD Intelligence Dissemination Authority
- Senior C4I advisor to the US Atlantic Command (USACOM)



Jimmy Pappas, (ret. Vice Admiral, US Navy)

- Cmdr. Norfolk and San Diego Naval Bases
- Senior C4I advisor to the US Atlantic Command (USACOM)

Unique Spiral Development Site



GuardianWATCH & ThreatSTALKER

System Benefits



- **Proactive Real-time Automated Surveillance**
100% surveillance, 100% of the time
- **Shared Real-time Video & Situation Awareness**
rapid threat intervention
- **Compliant with Emerging Federal Standards**
ensures coordinated on & off-site response
- **Low cost**
pays for itself in less than 10 months
- **Expandable – OPEN ARCHITECTURE**
third party application programs, maximizes life cycle

Guardian Solutions



- www.guardiansolutions.com
- Demonstration Van

Using GuardianWATCH Step 1

Defining Threats & Procedures



+ Site's definition of threats

+ Responder Definition – who, when & what info

Compliant with emerging Federal Standards (ESRI Shapefile)

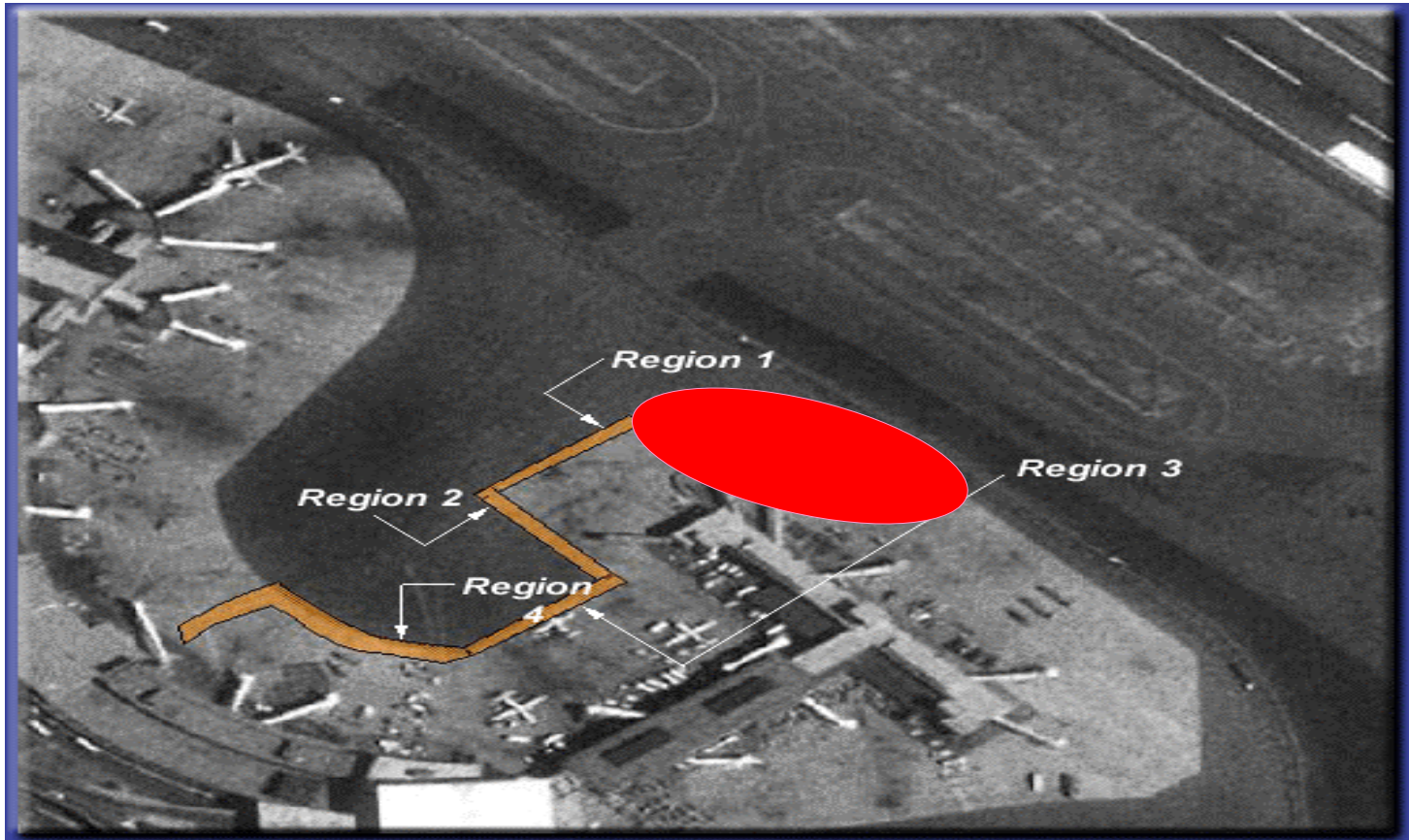
Defining Threats

Real-Time Parameters




- Geographic zone
 - Rule fires when target is in or crosses a zone.
 - Zone may be any size or shape area ranging from trip wires to large areas.
- Speed
 - Rule fires when target matches speed parameter (>, <, or between speeds - measured in fps, mps, mph)
- Direction/heading
 - Rule fires when target moves in a particular direction (>, <, or between heading 0 - 360 degrees)
- Time
 - Rule fires when event occurs at specific time (>, <, or between 24 hour clock)
- Day
 - Rule fires on certain days of the week (>, <, or between day of week)
- Size
 - Rule fires when target matches size parameter (> , <, or between size parameter - measured in sq feet or sq meters)
- Altitude
 - Rule fires when target matches altitude rule (>, <, or between altitude parameter - measured in feet or meters)
- HLS/DEFCON/MARSEC
 - Rule fires when DEFCON/MARSEC level is at or above level
- Confidence
 - Rule fires when target matches Confidence level (>, <, or between confidence level).

Setting Alarm Conditions



 No traffic allowed in direction of terminal

 No vehicle traffic when plane is docked



Using GuardianWATCH Step 2 Alarm Map Programs All Cameras

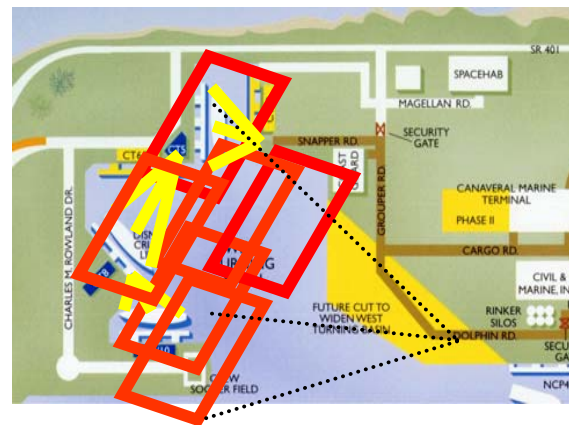
Video, IR
Fixed, PTZ



Supports Target Handoff

- Fixed > PTZ
- Fixed FOV IDs targets broadcasts Lat/Long, PTZ then interrogates

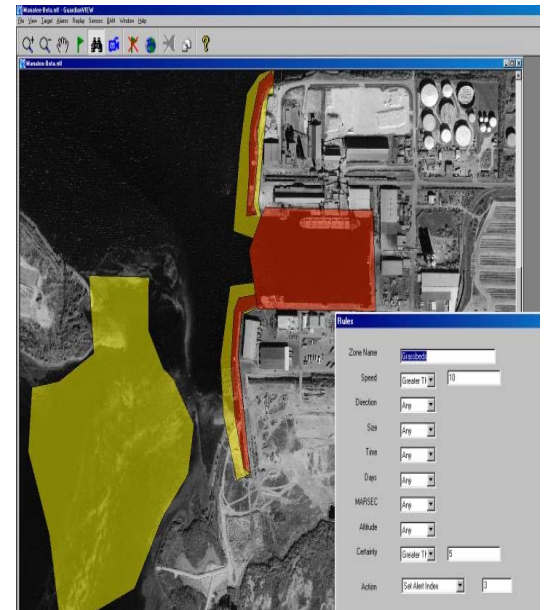
Independent PTZ Target Tracking





Automated Alerts

Detects & Tracks Activity



**Processes
Video Input**

**Compares
To Alarm Map**

Security Breach?

Using GuardianWATCH Step 4 Continuous Video & Situation Display



- **Common Picture**
- **Sent to all Responders**
 - Local**
 - Off-Site**
- **Video recording & playback**



Summary

GuardianWATCH

**a cost-effective automated surveillance system
for the security of infrastructure assets**

**Guardian Solutions
tel#941-907-2120
[www. guardiansolutions.com](http://www.guardiansolutions.com)**