# REGARD
## Viewing & Logging Systems

# REGARD TRACK
Intelligent video solution for outdoor sensitive site protection

**Advanced outdoor Video Motion Detection**

Regard Track, an Intelligent Video Threat Detection system, realizes the potential of image analysis for security applications. It analyzes and identifies intrusion threats in ways never before possible

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## Advanced outdoor Video Motion Detection

### How is this possible ?

Total Track combines dedicated hardware with a suite of advanced intelligent VTD (Video Threat Detection) algorithms, that extends the limits of standard Video Motion Detection (VMD) far beyond its current capabilities. These algorithms, including pattern recognition, statistical hypothesis testing, advanced learning algorithms and more, push the envelope of VMD. Special processing hardware is used to handle the analysis of millions of pixels per second.

### The Process of VTD Analysis

To identify potential threats in the video fields, RegardTrack does the following:

- It performs statistical tests on individual pixels to distinguish between random noise fluctuations and real changes It maps the two-dimensional video image to the three-dimensional real life physical world, and determines if an object is moving across the terrain, at what speed, distance, and what size.
- It uses statistical hypothesis testing on a significant historical segment of the video image to identify patterns of behavior, including very slow moving objects.
- It uses adaptive learning functions to learn these patterns of behavior, in order to identify familiar patterns of behavior in the future. Learning functions means that the system is fully operational as soon as it is installed, with no manual learning setup required.
- It uses advanced adaptive algorithm, to control PTZF cameras automatically, maintaining in center camera through 360º degrees of motion.

### Regard Track benefits

- Fully operational within minutes
- Identify intruders at maximum camera range using tactics that baffle other systems: crawling as slowly as one meter/hour, fast running, zigzag, stop and go.
- Ignore small animals, clouds, camera movement and other visual noise
- Ignore movement in predefined areas (like patrol roads)
- Identify and track multiple simultaneous intruders.
- Alarm on low visibility, FOV obstruction, video malfunction, weak or no signal
- Works with different camera types: B/W, color, IR, Thermal, PAL & NTSC
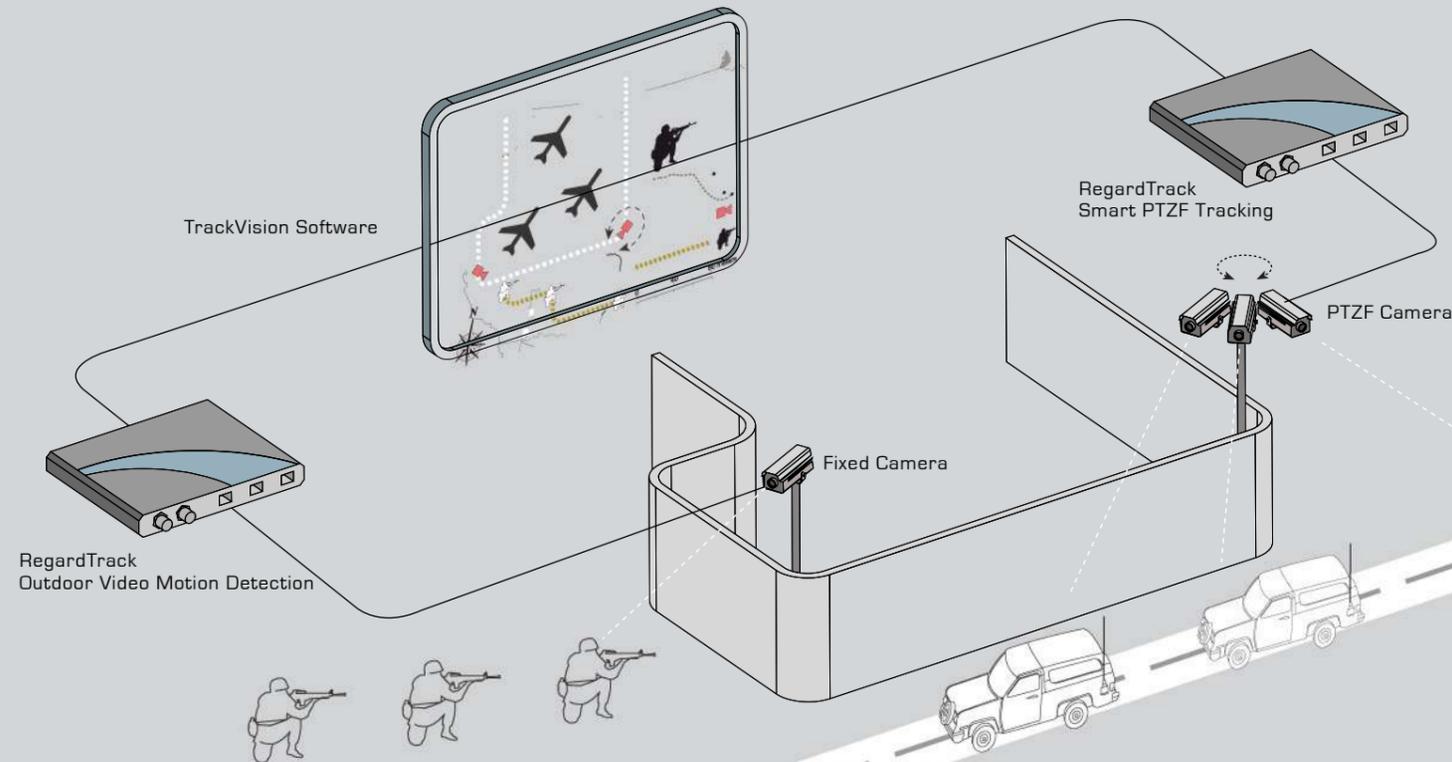
## Smart PTZF Tracking

### The Technology

RegardTrack offers the PTZF Track Module, an automatic PTZF camera controller. PTZF Track locks a Pan-Tilt-Zoom-Focus camera on an intruder, and automatically keeps the intruder in center focus, regardless of how the intruder moves. PTZF Track lets your security force track an intruder on the entire range covered by the PTZF camera.

### Regard Track PTZF™ benefits

- Track intruder with a any PTZF cameras automatically
- Keep intruder in center camera through full 360 degrees of movement
- Track all moving objects (Humans, Vehicles) No use of presets
- Manual and automatic modes: track an intruder automatically, or manually select an object of interest to track
- Track intruder even when occluded or hiding (the camera will wait until intruder is visible)

## System Overview



TrackVision Software

RegardTrack
Smart PTZF Tracking

PTZF Camera

Fixed Camera

RegardTrack
Outdoor Video Motion Detection

# TRACK VISION

## Regard Track Command Center Software

TrackVision is the remote control & command software for RegardTrack servers. TrackVision uses an intelligent, policy-based analysis engine to make sense out of masses of device inputs, and presents what is important now in the clearest, most understandable way to security personnel.

## Track Vision benefits

- Integrated real-time security view: up to 32 simultaneous video camera displayed, with aerial photos, site maps and floor plans showing status and physical location of security devices and real time Moving Target Indicator (MTI) on a single or dual monitor.
- Deployment across a wide are network: cameras, sensor inputs and command center stations can be distributed geographically. Client/Server architecture allows unlimited addition of stationary and PTZF cameras, RegardTrack units, command stations and users.

- Policy-based definition of threat response: automatically activate systems on alarm (automatic door locks, lights, control PTZF cameras, Siren, etc...) and log all alarms for later review.
- Server-based database: the database provides the distributed basis for security information, hierarchy and permissions. Each command center can be personalized per user, based on role and preferences. Users can define macros, for quick activation of actions, and camera sequences for guard tours.
- Integrate sensors from other security systems, including IR detectors, fences, PIR and more, in order to reduce security desktop overload.

## System Specifications

### TECHNICAL SPECIFICATIONS

- Video input: 1/4
- Cameras type: Color, B/W, IR and Thermal
- Video Formats Supported: PAL, NTSC
- Compression Format: MPEG-4
- Network Protocol Supported: IEEE 802.3/802.3U
- Ethernet / Fast Ethernet
- Serial Protocol Supported: RS-232/485
- Video Output: 1/4 V p-p, 75 ohms
- Signal Processing: Digital Signal Processing

### ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature: 0% to 50%C (32 to 104F)
- Storage Temperature: -10% to 65%C (14 to 149F)
- Humidity: 5% to 95% (Non-Condensing)

### PHYSICAL SPECIFICATIONS

- Construction: Aluminum Casing
- Finish: ALODINE® Coating
- Dimensions: 19.5x2.8x14 cm (7.67"x1.1"x5.51")
- Weight: 0.5Kg (1.1 pounds)

### ELECTRICAL SPECIFICATIONS

- Input Voltage: 12 VDC
- Unit Internal Voltage: 5 VDC
- Power Consumption: 7 watts typical
- Video Input: 75 ohms
- Video Output: 75 ohms
- Video Connector: BNC
- Network Connector: RJ-45
- Serial Connector: RJ-45
- Discrete Interface I/O:
  - Voltage: Max 24 VDC
  - Current: Max 90 mA
- Line Feed: 100 – 230 VAC / 47 – 63 Hz

### CERTIFICATION SPECIFICATIONS

- Safety: UL Listed, CE
- CE: Class A
- FCC: Class A

### WARRANTY

- Manufacturer's: 1 year, parts and labor