



AVIPPS

VIP PERIMETER PROTECTION SYSTEM

VIP Perimeter Protection System (ViPPS) is a rapidly-deployable security solution for aircraft or other high-value VIP assets.

As a complete package it can be:

- **STORED** on the aircraft (in a lightweight package)
- **REMOVED** from aircraft and **INSTALLED** at new site
- **OPERATIONAL** within **15-60 minutes** of unpacking

Offered with the following 3 sensor types:

1. Microwave



2. Laser Scan



3. Thermal Camera with Video Analytics



Each ViPPS solution is:

**Fully-Contained and Autonomous
Rapidly-Deployable**

Linked to Remote Monitoring System for response coordination.

Each ViPPs includes 2-4 sensors, ruggedized laptop/iPADs with pre-installed software, tripods, batteries/solar panels and communications - packaged in rugged portable cases for quick and easy transport.

For perimeter and scene monitoring surveillance, ViPPS offers:

- Long-range detection automation
- GPS situational awareness for coordinated security response
- Real-time operational picture of targets and/or resources on one screen.
- One-person portability, zero-infrastructure
- <60 minute deployment.
- Solar or battery-power

With secure (AES 256) wireless communications.

1) ViPPS-Microwave

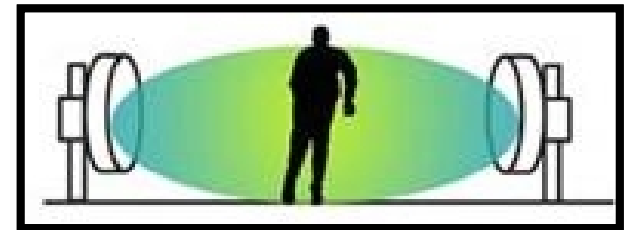
Uses a microwave barrier to create invisible detection zone
Surveillance around the VIP aircraft.

Intrusion attempt into protected areas detected by barriers

Immediately sends intrusion position as ALERT to VPPS
Remote Monitoring System (RMS) control panel

- located in a Security Control Room
- Security Vehicle
- Security Personnel (handheld)

Precise Location of the intruder will be shown on:
Command Centre Displays
Remote Monitoring System (RMS) on iPad®/ Laptop



1) ViPPS - Microwave

Four (4) **rapidly deployable fast-action brackets** on tripod legs.



Four (4) **Microwave head combos**;
1 one transmit/ one receive head each with heavy-duty battery packs (long-life offering 5 days power without recharging).



Fully Monitored Radio Link

Ensures reliability and security of radio connection between detectors and the central control unit.

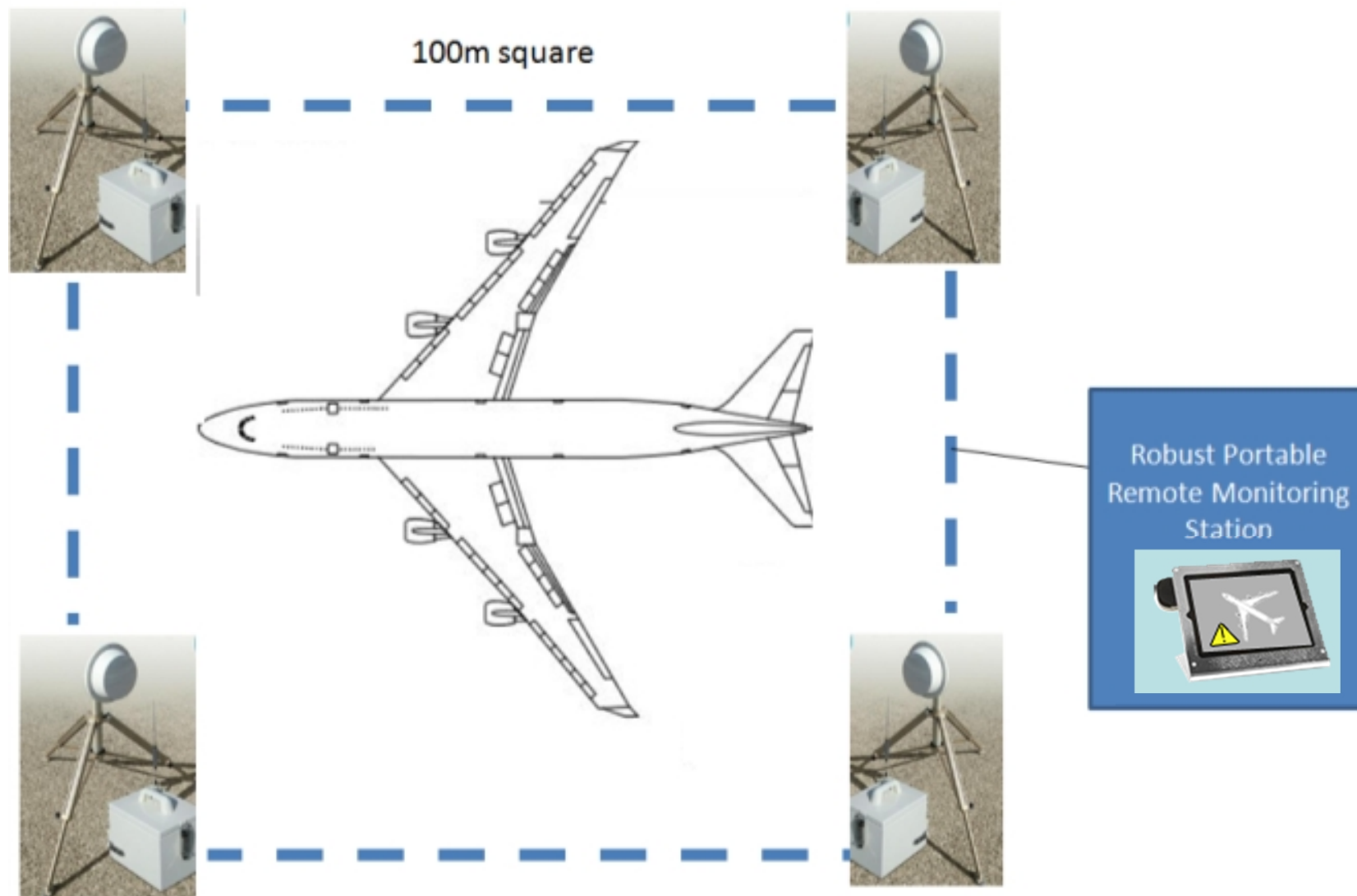


Remote Monitoring Stations (RMS) with easy to read Graphical User Interface in a robust carrying case - iPad4 or laptop.

The RMS can monitor alarm and status of up to 32 independent microwave detectors within a radius of about 1km in open space..



1) ViPPS – Microwave deployment



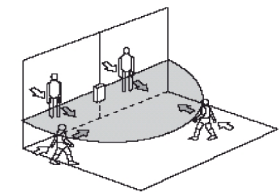
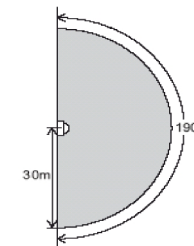
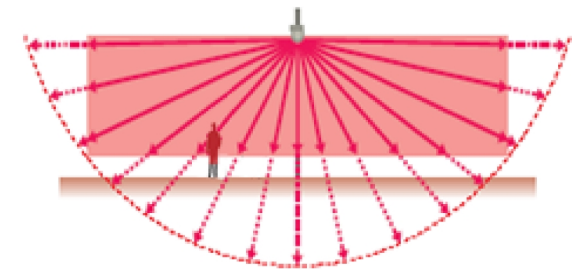
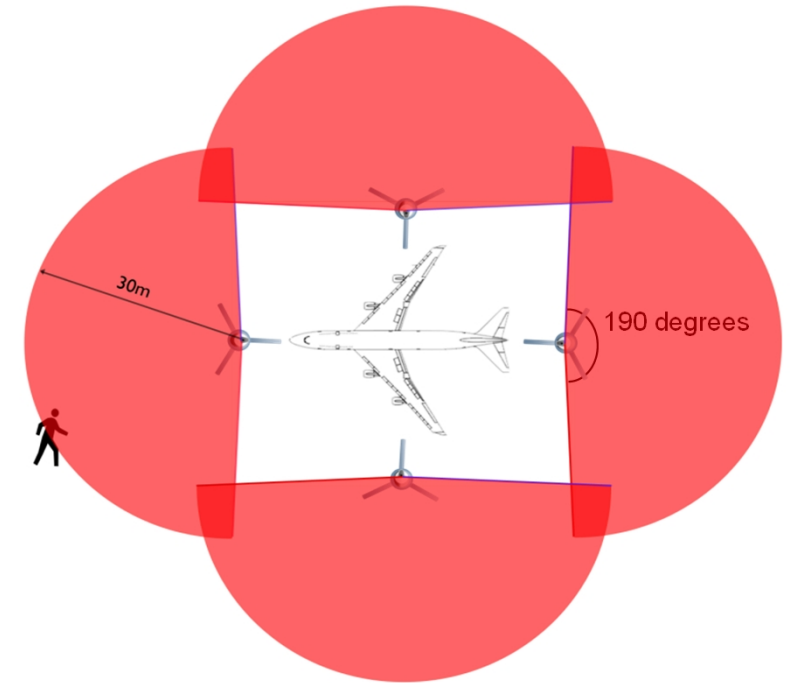
2) ViPPS-LaserScan

Creates a laser-scan barrier to create invisible detection zone around the VIP aircraft.

360 degrees around aircraft.

ViPPS-LaserScan recognizes the size, speed and distance of objects 360 degrees around aircraft 100ft out.

With detection algorithm, it automatically **recognizes human targets** (security/maintenance team) and avoids false alarm factors.



2) ViPPS-LaserScan

Creates a laser-scan barrier to create invisible detection zone around the VIP a/c.

- **Fully-Contained** and Autonomous
- **Rapidly-Deployable**
- **Linked to Remote Monitoring System** for response coordination.

Each ViPPS –LaserScan includes 2-4 sensors, ruggedized laptop/iPADs with pre-installed software, tripods, batteries/solar panels and communications - packaged in rugged portable cases for quick and easy transport.

For perimeter and scene monitoring surveillance, ViPPS - LaserScan offers:

- Long-range detection automation
- GPS situational awareness for coordinated security response
- Real-time operational picture of targets and/or resources on one screen.
- One-person portability, zero-infrastructure
- <60 minute deployment.
- Solar or battery-power

With secure (AES 256) wireless communications.



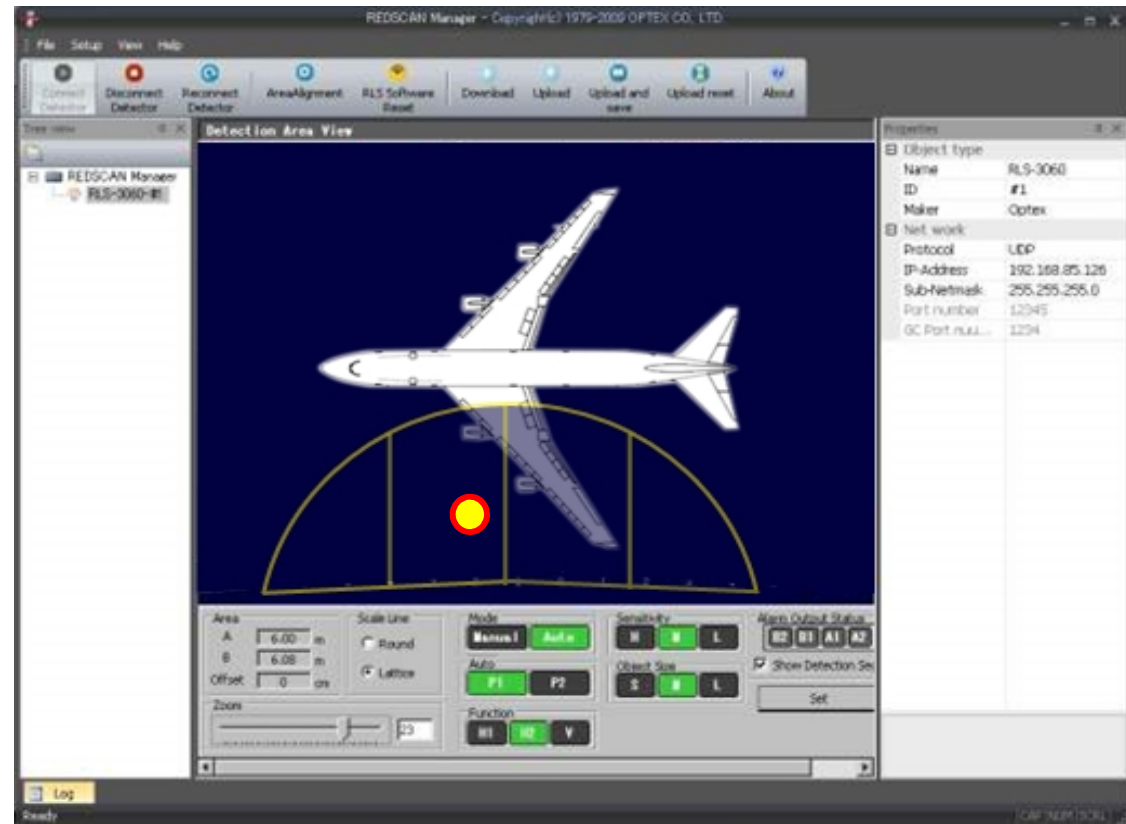
2) ViPPS-LaserScan to LapTop/ iPad interface

LASERSCAN



COMPUTER

Ethernet port(RJ-45)

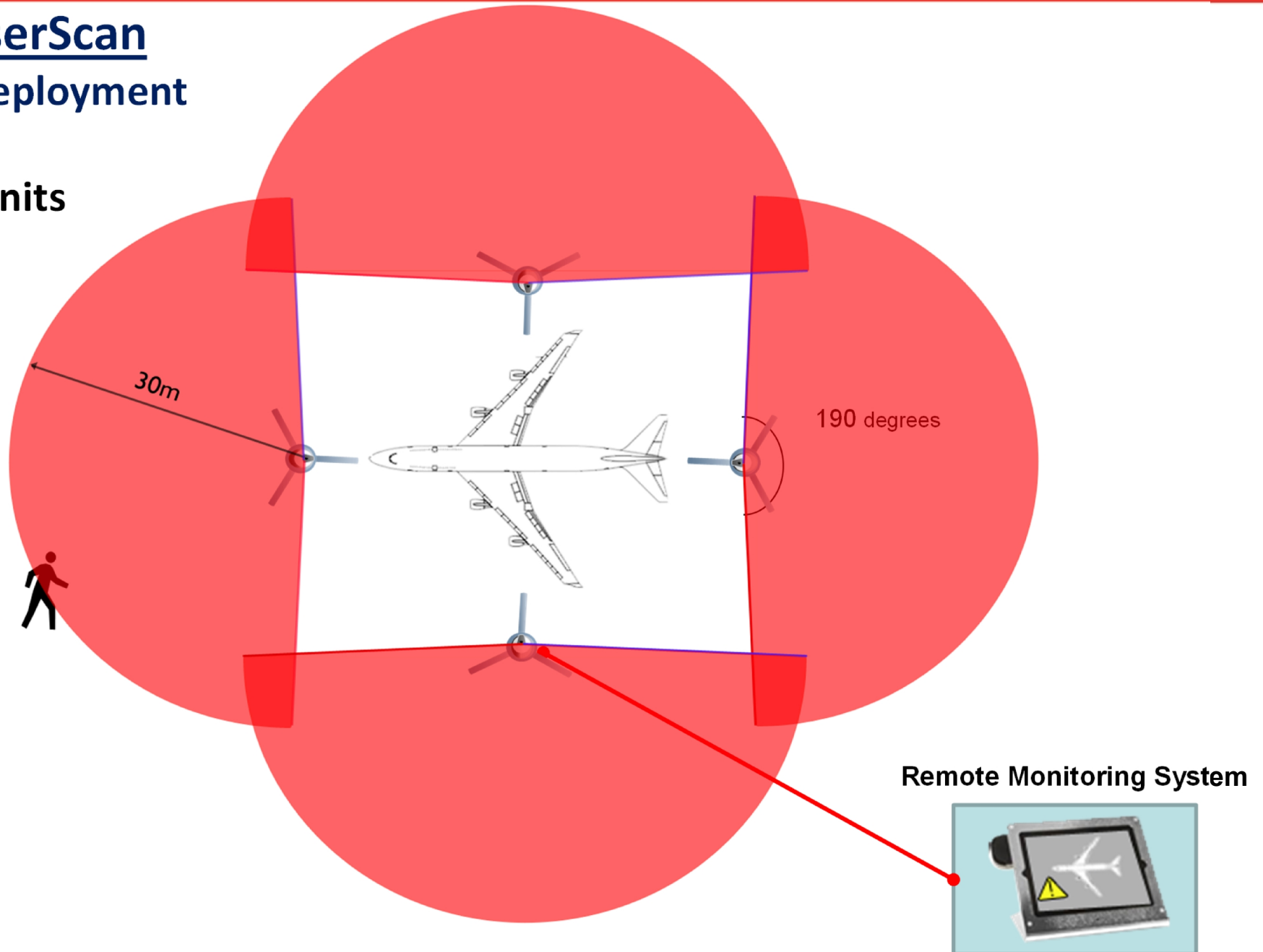


- ✓ Visualized detection area
- ✓ Easy detection area setting on PC/Laptop software
- ✓ Other detector setting on PC software
- ✓ Enables coordinated security response.

2) ViPPS-LaserScan

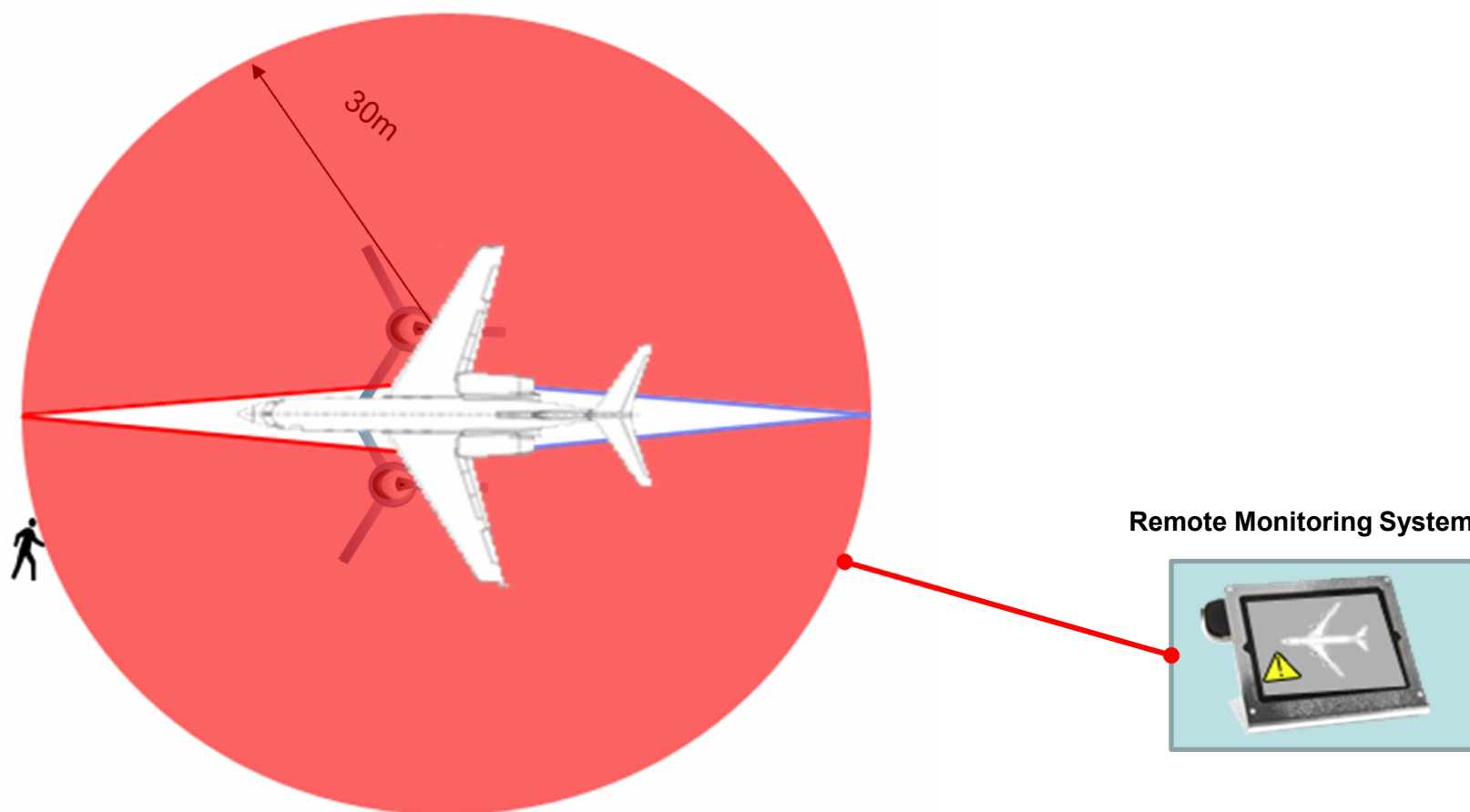
Boeing 747 deployment

4 Laser Scan units



2) ViPPS-LaserScan Gulfstream deployment

2 LaserScan units back-to-back



3) ViPPS – Thermal Camera with Video Analytics

ViPPS Thermal is a complete, rapidly deployable **intelligent** video system designed for VIP surveillance of critical assets and at remote locations.

As a secure wireless system (AES 256 encryption) ViPPS Thermal creates a boundary around aircraft.

ViPPS Thermal is a single-person portable surveillance system.

Each kit includes:

- 1 or 2 SightSensor high-sensitivity cameras
- Ruggedized laptop and/or iPad with pre-installed SightMonitor software
- Camera tripod(s)
- Network video recorder (NVR) software
- *all packaged in portable case for quick and easy transport.*



3) ViPPS – Thermal Camera with Video Analytics

Perimeter and scene monitoring surveillance requires reliable **pre-incident** awareness and interoperability.

ViPPS Thermal offers true “intelligent” situational awareness.

Long-range detection automation using:

- **In-camera analytics**
- **GPS situational awareness**

providing force multiplication and a real-time operational picture of targets and/or resources on one screen.

One-person portability, zero-infrastructure,
Easy to use 15-minute deployment.

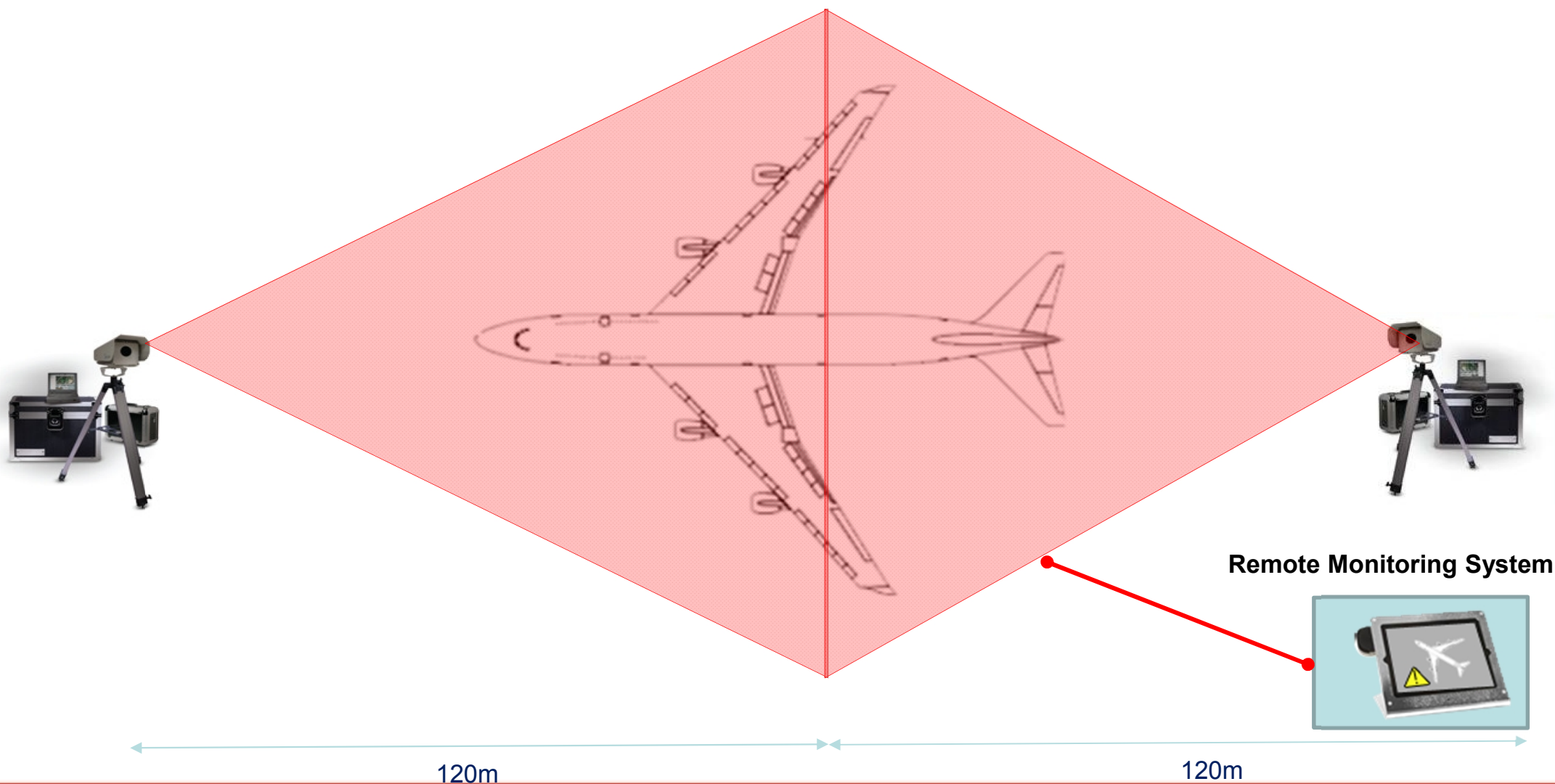
Operated on solar or battery power.

Provides GPS-based situational awareness
for coordinated security response.



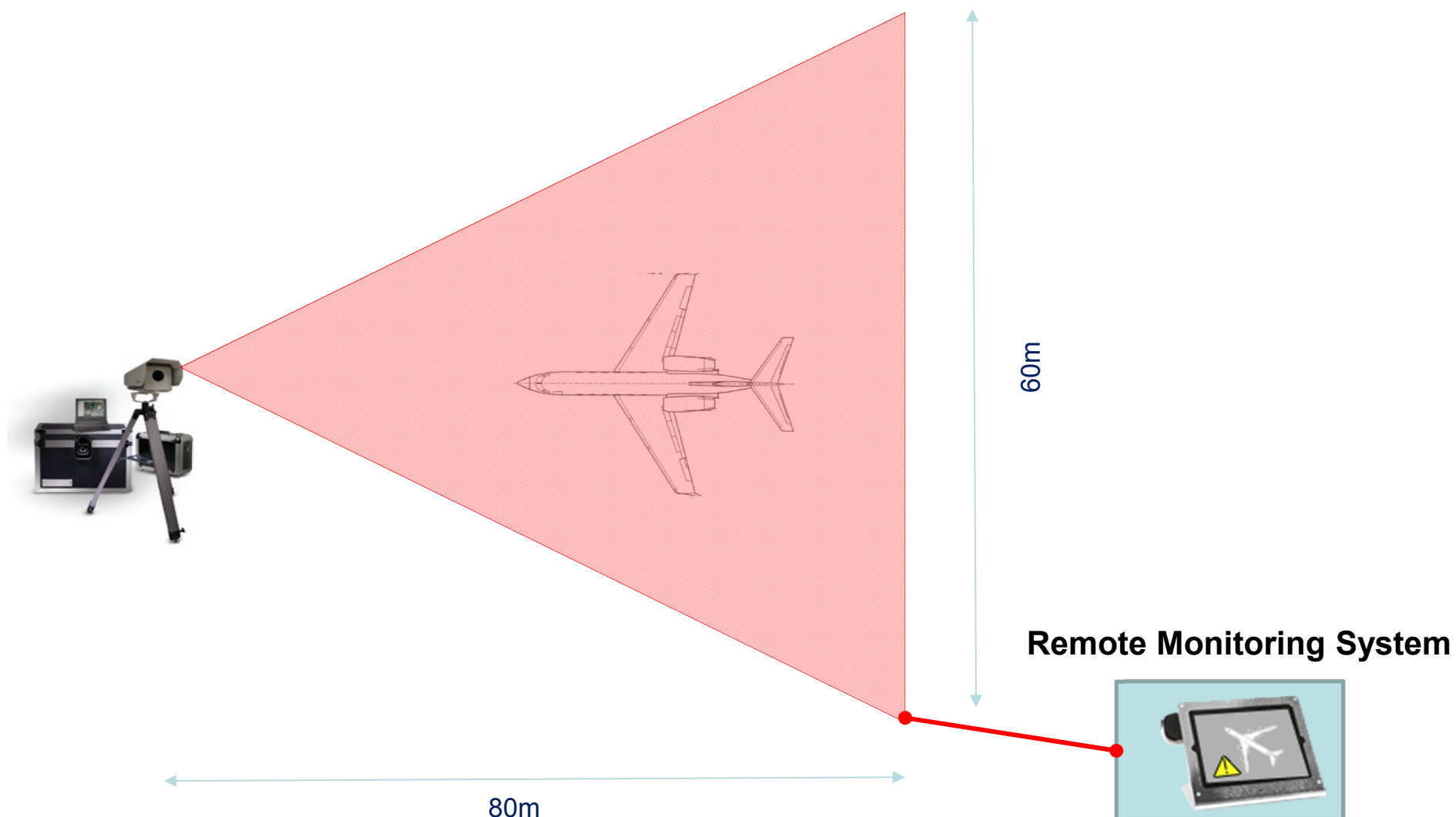
3) ViPPS – Thermal Camera Boeing 747 deployment

Dual-camera for total perimeter coverage front & back/ all sides



3) ViPPS – Thermal Camera Gulfstream deployment

Single-camera for total perimeter coverage front & back/ all sides



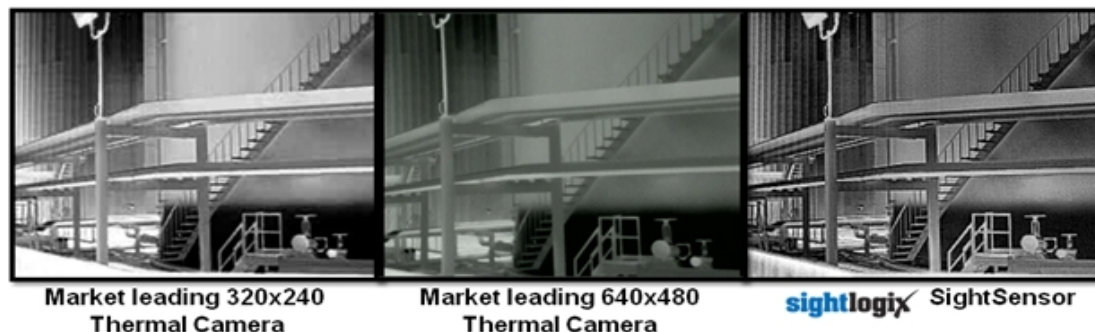
3) ViPPS – Thermal Camera with Video Analytics

The SightSensor is designed for maximum operational range (up to 600m) ranges and FOV up to 7 degrees.

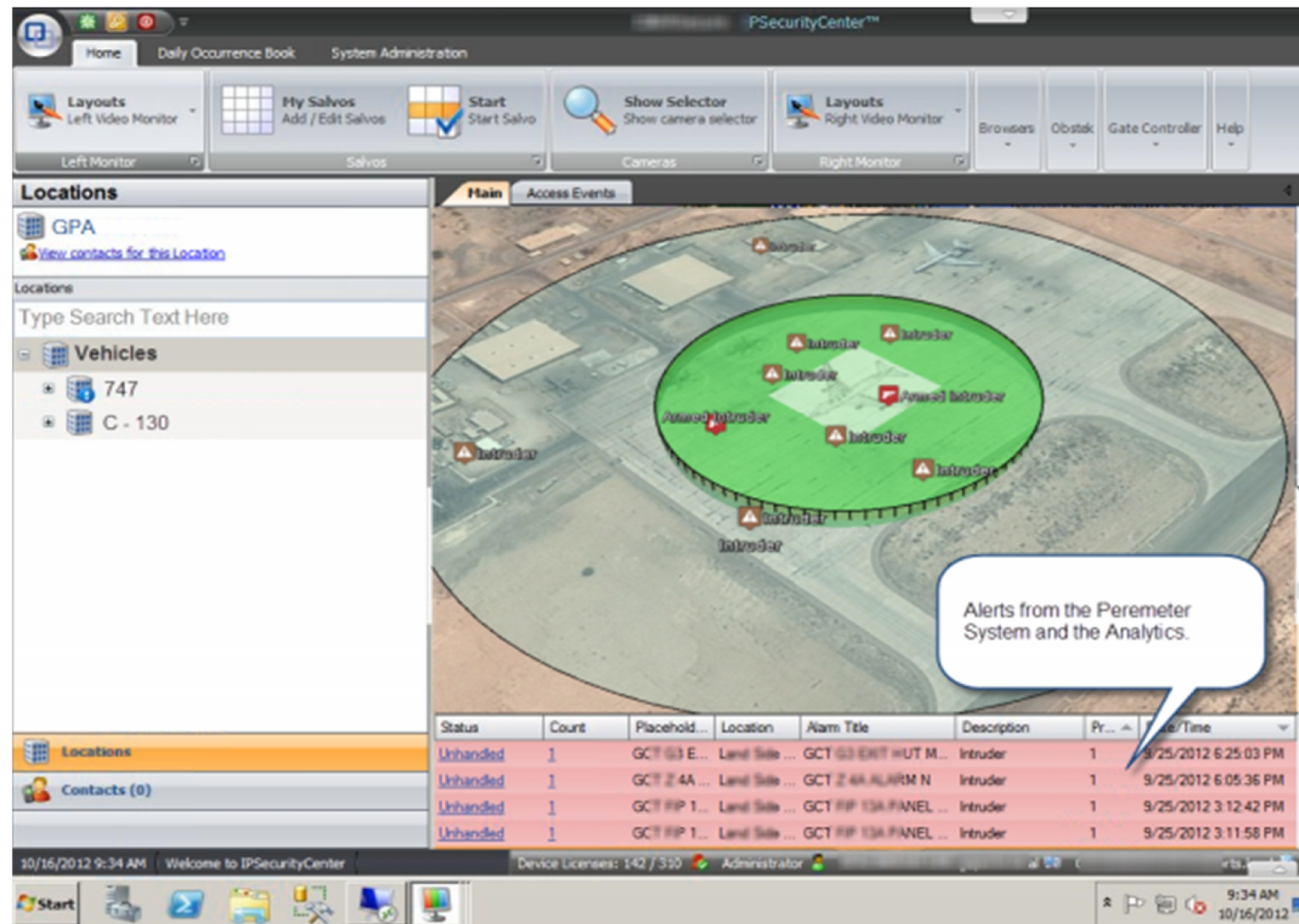
It leverages powerful on-board video processing for high Probability of Detect (PD) and low Nuisance Alarm Rates (NAR) while providing crisp, clear images night and day.

It offers **Advanced Video-Analytics** over ranges far exceeding competitor cameras with accurate **Geo-Spatial** positioning.

The Thermal SightSensor™ consists of a thermal imager, complete with lens optics, electronic stabilization, image contrast enhancement, video analytics software, camera control, and **geospatial** target tracking within a ruggedized, NEMA 4X nitrogen-purged housing.



3) ViPPS – Thermal Camera with Video Analytics



Remote Monitoring System



Real Time GPS and related alerts displayed on Remote Monitoring System for coordinated security response

Map can be manipulated across all three axis for maximum geospatial understanding of each object

→ Allowing greater understanding of how to approach the target.

3) ViPPS – Thermal Camera with Video Analytics

The Video Analytics engine offers:

- Up to 64 individual Alarm Zones or Restricted Areas / Each of these 64 zones can have an unlimited number of rules
- Motion Tracking
- Control alarm detection according to time of day
- From/To Zones
- Target Size Filtering – Eliminate objects smaller or larger than a specific height or specific width
- Target Size Filtering – Eliminate objects smaller or larger than a specific aspect ratio
- Wrong-Way Direction
- Loitering
- Track certain sized objects, but do not alarm on them.
- Object left behind
- Speed alarm detection (either above or below user specified threshold)
- Automated PTZ control (with SightTracker units)
- Selectable tracking priority for Sight Tracker (newer, faster, closer, etc)



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