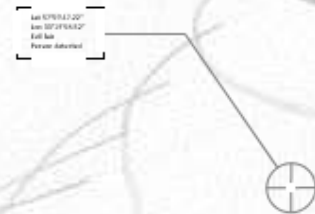# FORESIGHT

PROTRACK's Wide-Area, Long Range Surveillance System for ground-based and low-altitude ISR optical sensors with video anchoring, geo-positioning and video analytics.

The software automatically anchors live/offline video to a map, detects and classifies objects in the video, displays their real-world location and allows extracting coordinates of any pixel in the video.

FORESIGHT has three basic interface elements:

- Real-time video window
- Wide area panorama
- Map (orthophoto with DTM/DSM)

FORESIGHT works with any daytime/IR/thermal camera, PTZ or static, and can be integrated with existing C^{5}I system or operated as standalone.

Minimum hardware requirements:

PC/Mio: Windows 10/11, i7 processor, 250GB storage, 16GB RAM, GPU

Nvidia TX2/Xavier NX/Orin NX: Linux, 250GB storage

(Other computing platforms can be used after evaluation)

A Wide-Field Panorama, displaying the super-imposed narrow-field live video feed

The live video window, displaying information and analytics

The map window, displaying the video footprint, the sensor's line-of-sight and analytics

Overlaying the video on the panorama provides the operator with wide-area context when focusing on a narrow field of view.

The specialized AI-aided Video Analytics (VMD, classification, tracking) data is displayed in the video, on the panorama and on the map

Additional Capabilities:

- Automatic panorama creation
- Region of Interest definition
- Points of Interest (POI) pre-planning
- Annotations
- Flexible window arrangement

With Foresight, YOU own the field