



SERAPHIM OPTRONICS

Intelligence & Security Solutions



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About Seraphim

- Seraphim Optronics is a long-standing provider of sophisticated electro-optic and multi sensor solution managing for persistent surveillance, intelligence, security and observation applications.
- Based on **leading imaging, multi-sensor integration capabilities, unique command and control software and communication technologies**, Seraphim capitalizes on over 20 years of close collaboration with military and para-military users.
- As our name implies, **Seraphim Optronics** is your **guardian angel** for effective responses to **covert intelligence, defence and security** missions.





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Global Activity Deployment





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C&C Software

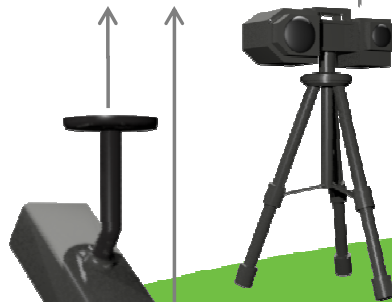




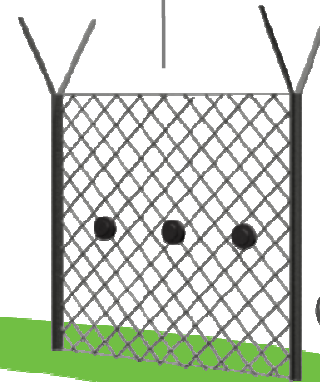
C&C Software



Cameras



Fence Sensor



Quadcopter



Radars



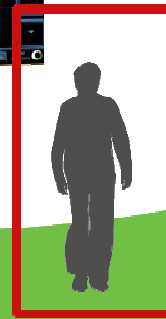
Seismic Sensor

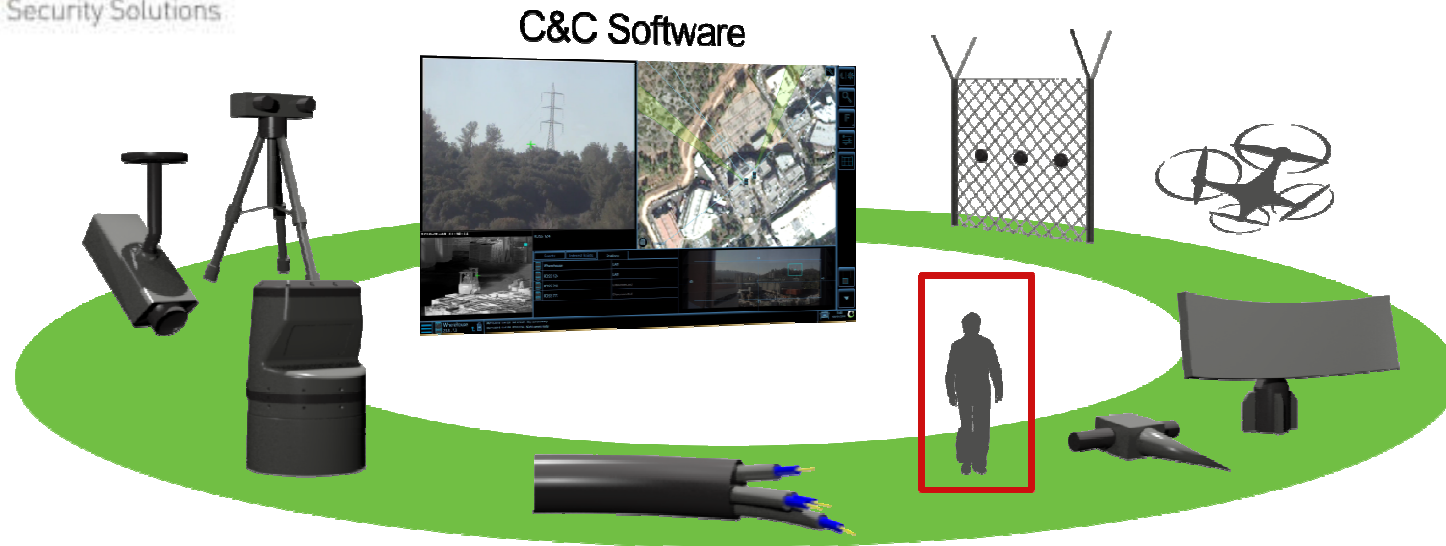


Optic Cable



VMD & Artificial Analytics





Covert Intelligence



Critical Infrastructure



Force Protection

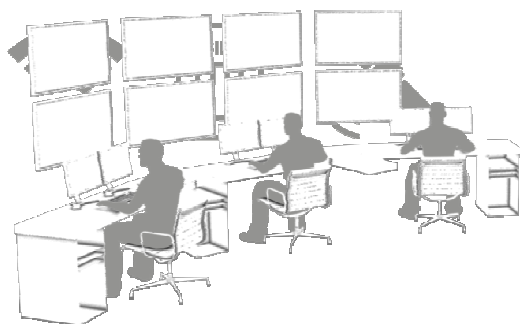


Border Protection



Seraphim back bone

Full integration with C4I
systems (Plug & Play)
(day, thermal, including VMD)



- ✓ Dual observation capability (day/ thermal) including VMD
- ✓ Internal movement only
- ✓ Designed for non reflection
- ✓ Multiple communication support (WiFi, Cellular, Satellite)
- ✓ Minimum energy consumption
- ✓ Full synergy with a variety of sensors
- ✓ Easily integrated with C4I Systems (Plug & Play)

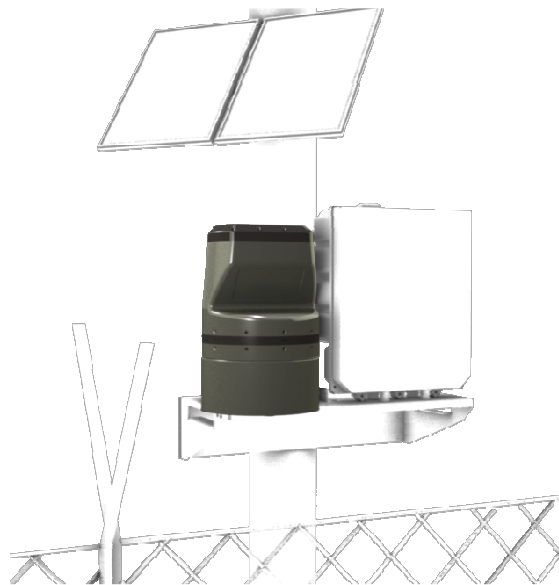
The ROSS

Remote Observation Surveillance System

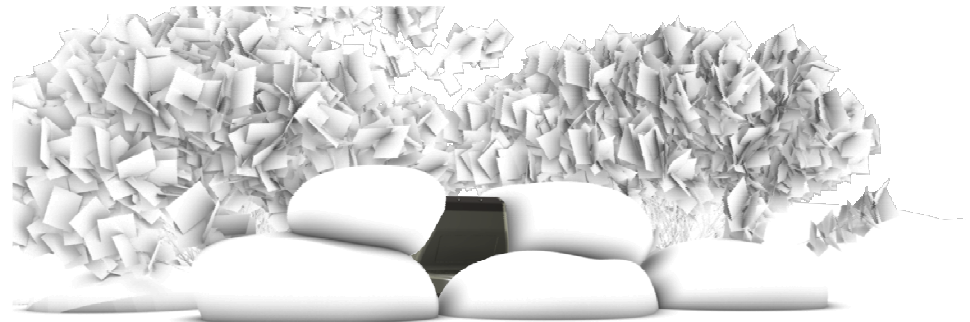




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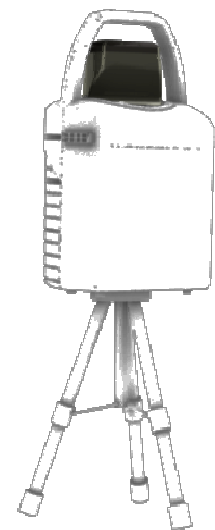
RAPHAEL



ARIEL



OPERATIONAL
SOLUTIONS



GABRIEL

The ROSS Remote Observation Surveillance System



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- **Camouflage-friendly design:**

ARIEL can be covertly located, while aiming and stealthily investigating an area or object of interest without being noticed.

ARIEL Covert Surveillance System



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- ARIEL utilizes either built-in Video Motion Detection (VMD) or seismic sensors to detect movements (humans or vehicles), awaken the system and **slave its camera to a detected target.**



ARIEL Covert Surveillance System



- Communication range is almost unlimited



ARIEL Covert Surveillance System

- ARIEL is a lightweight, modular, remotely-controlled target observation and acquisition system **designed for combat multi-tasking.**



ARIEL Covert Surveillance System





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- Highly cost-effective solution for border and critical infrastructure, defense and security



RAPHAEL

Stand-Off Radar-Integrated Surveillance Suite



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- **Camouflage capability** enable the system to naturally assimilated in the environment



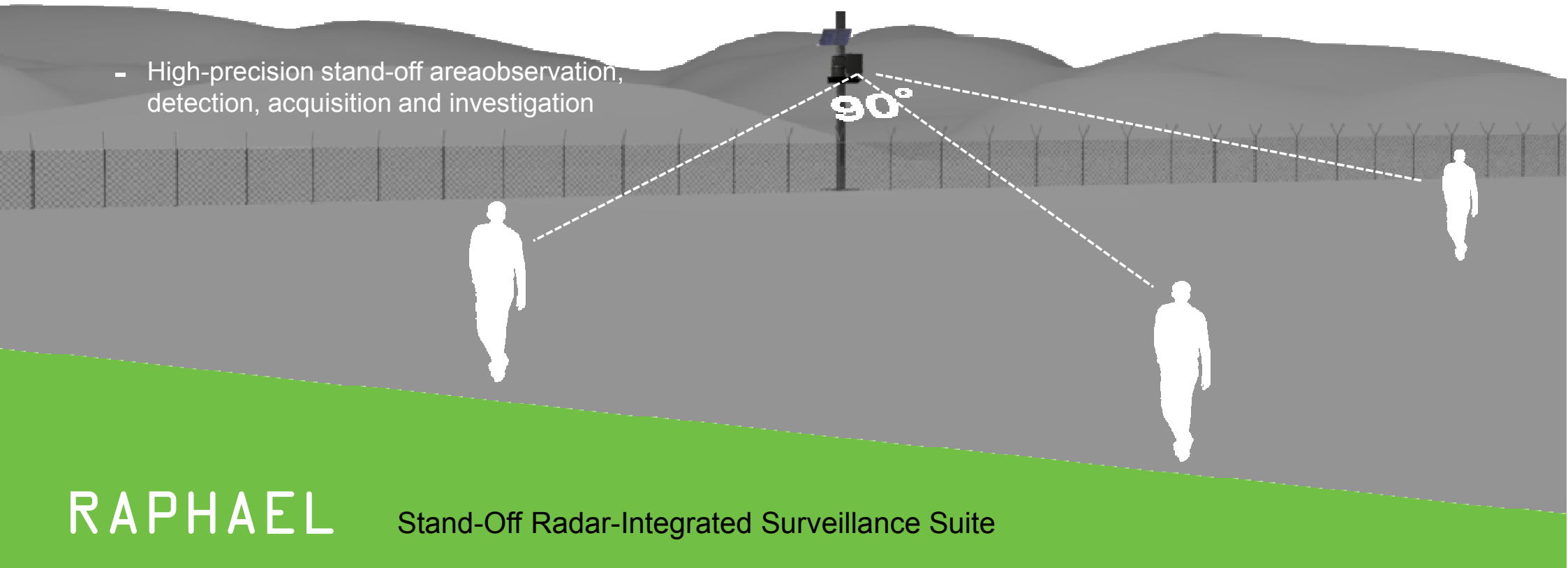
RAPHAEL

Stand-Off Radar-Integrated Surveillance Suite



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- High-precision stand-off area observation, detection, acquisition and investigation



RAPHAEL

Stand-Off Radar-Integrated Surveillance Suite



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- No infrastructure required

RAPHAEL

Stand-Off Radar-Integrated Surveillance Suite





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- Man-portable configuration of the Raphael: detect and investigates



GABRIEL

Man-Portable Radar-Integrated Surveillance System



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- The GABRIEL is innovative in that it brings integrated electro-optics and radar capabilities to forces on the move



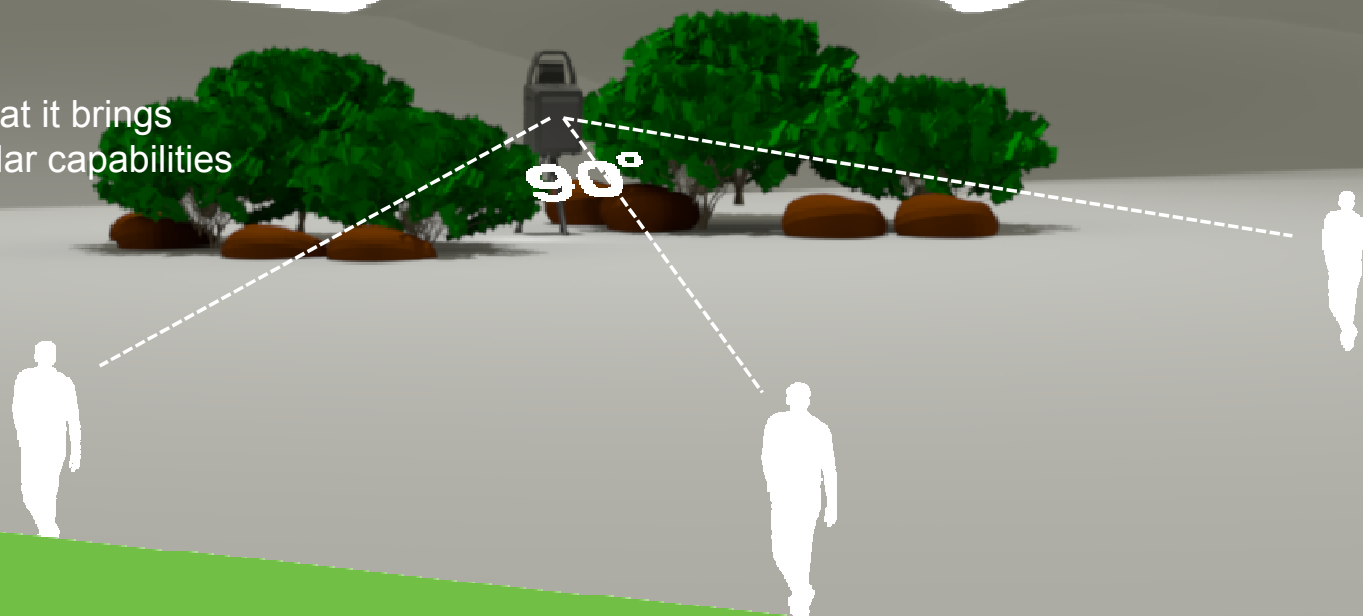
GABRIEL

Man-Portable Radar-Integrated Surveillance System



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- The GABRIEL is innovative in that it brings integrated electro-optics and radar capabilities to forces on the move



GABRIEL Man-Portable Radar-Integrated Surveillance System



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- Radar detections and live video from GABRIEL are dispatched to a tablet via WiFi, cellular or cable communication

GABRIEL

Man-Portable Radar-Integrated Surveillance System






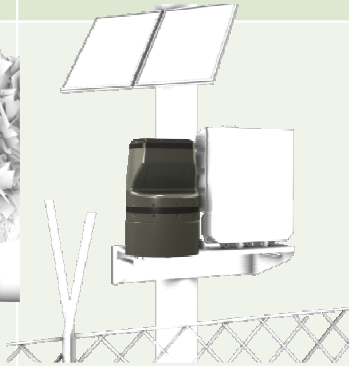

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Events		Interest Points	Stations
①	GABRIEL 777	360m 86° [35.10602 , 32.638158]	
②	GABRIEL 777	540m 104° [35.107767 , 32.636751]	

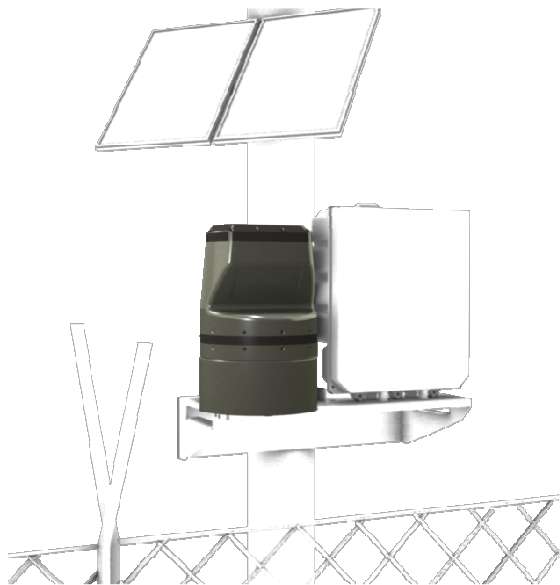


Operational Screen

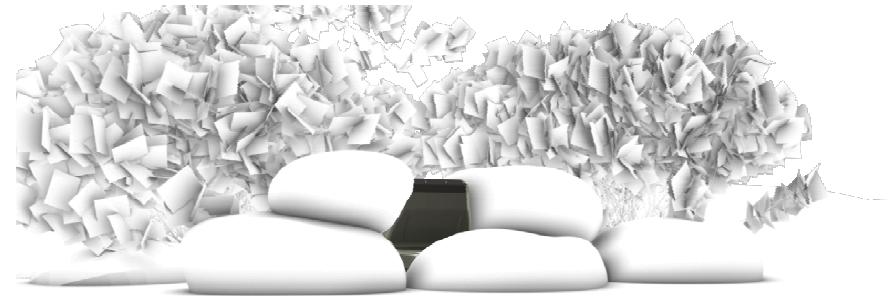
	UNATTENDED ARIEL	FIXED INSTALLATION RAPHAEL	DEPLOYABLE GABRIEL
DAY CAMERA	✓	✓	✓
THERMAL CAMERA	✓	✓	✓
RADAR		✓	✓
SEIEMIC SENSORS (optional)	✓	✓	✓
CAMOFLAGE SOLUTION LEVEL	Highest level	Concealment / look innocent	basic
COMMUNICATION   	Multi	Multi	Multi
MOBILITY	✓	Static	✓
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REPHAEL

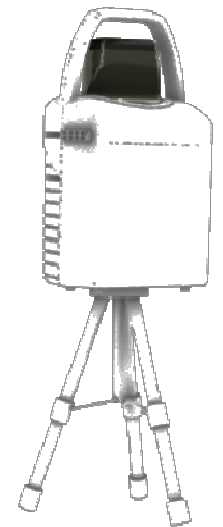


ARIEL



TAILOR MADE SOLUTIONS

Subject to defined parameters we can fit our solutions to the client special requirements



GABRIEL

The ROSS Remote Observation Surveillance System



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