



Seraphim Optronics Ltd.



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Seraphim Optronics Ltd. is a well-established company for over 18 years, which specializes in electro-optical systems for covert surveillance in defense, military, paramilitary and civilians markets. Seraphim develops, produces, sells and supports its products worldwide. As a system house, Seraphim can tailor the solution to the customer's requirements.

Seraphim persistent covert surveillance imaging & integrated systems are combat proven solutions for:

- Force Protection
- Border Protection
- Intelligence Gathering
- War On Terror
- Forward Operating Base Protection
- Denied Area Observer
- Securing Strategic Infrastructures (ports, nuclear sites, power plants, oil & gas pipelines)

Operational in Special Forces units, Border Protection Agencies and other elite military, paramilitary and civil organizations worldwide, Seraphim solutions provide:

- Best of Breed (real-time FMV, VMD, PTZ, area scanning).
- All-in-One Solution (visual & IR cameras, simple deployment, integrated communications).
- High Survivability (compact, efficient power management, no external movement, easily camouflaged).

The MUGI – Mini Unattended Ground Imaging sensor - is a fully operational system built to supply the ground forces with a real-time persistent covert surveillance. Unlike UAVs, the MUGI can remain in the area of interest for months, performing intelligence gathering 24/7 from a hidden spot using its IR Imager or its CCD camera to send live video streams to the C⁴I center thus enabling the operator to gain a full situational awareness. The MUGI can operate autonomously -

detecting suspicious movements and alerting the user using its Internal Video Motion Detection (VMD) capability, which also facilitates unmanned persistent intelligence collection, by automatically recording events for later analysis. One observer can control up to 32 systems for extended time periods without fatigue. The MUGI can be connected to other, small, UGS (Unattended Ground Sensors) creating a network of concealed sensors for missions such as breach sealing or gap filling in border control or force protection. The MUGI is a versatile system that can perfectly match military, paramilitary, police and homeland security missions.

New for 2012!

UGF – Unattended Gap Filler system combines EO with Tactical RADAR for total wireless control of a 2 km² area with automatic detection, alert and video, communications and energy platform for long duration missions. Combine UGF with additional UGSs (seismic, acoustic) to hermetically seal gaps in the border suite. UGF can be installed in fixed locations (covert & powered by solar) or quickly deployed for tactical RECON and force protection.

The Chameleon 2 is an unattended persistent covert surveillance system for urban reconnaissance missions. The Chameleon 2 gathers real time visual Intelligence by remotely monitoring hostile movements and supplying early warnings for military and law enforcement forces. The Chameleon has the same operational concept and advantages as the MUGI with an integral VMD, but uses shorter range cameras to reduce size and cost and is capable of identifying a human from 250m and transmitting full motion video, for immediate and future prosecution and incrimination. Chameleon employs a CCD camera (VIS & NIR) & IR imager, with a Panning capability of 90° with no external movement, very small aperture and no light reflection.

