



Seraphim Optronics Ltd
Persistent Covert Surveillance



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MUGI Dimensions

MSU dimensions	ø197mm x 367mm
Field Station (with BPU10)	365mm x 283mm x 367mm
High Energy (BPU60)	410mm x 228mm x 306mm

MUGI Weight

MSU	< 5.5Kg
Field Station (MSU + Energy Pack)	< 19Kg (BPU10)
Field Station (MSU + Energy Pack)	< 36Kg (BPU60)

MUGI Operator Unit (MOU)

MOU - Mobile (Rugged Case)	<13Kg
MOU - Rugged Tablet	<5Kg
MOU - Rugged Handheld	<3Kg



MUGI

Mini Unattended Ground Imaging sensor

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MUGI-Mini Unattended Ground Imager for Persistent Covert Surveillance

Mini Unattended Ground Imaging sensor - is a fully operational system built to supply the ground forces with a real-time persistent covert surveillance. Unlike UAV 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 sending live video streams to the C4I center thus enabling the operator to get a full situational awareness. The MUGI was specially designed to be camouflaged for quick deployment of the system in special operations, setting a technical ambush or an observation point in denied areas, where the system needs to remain disguised.

The MUGI can be connected to other, small, UGS (Unattended Ground Sensors) creating a net of concealed sensors for missions such as breach sealing or gap filling in the border control or force protection.

The MUGI is a versatile system that can perfectly match military, paramilitary, police and homeland security missions

Applications

- War on Terror
- Border Control
- Special Operations
- Home Land Security
- Law & Drug Enforcement

Operational Utilization

- Covert Persistent Surveillance
- Intelligence Gathering
- Force Protection Forward Observer
- Breach Sealing / Gapfilling
- Denied Area Observer
- Networked Area covering
- Mine Field alternative
- Technical Ambush

Features

- 24/7 - Day (Color & NIR) & Night (Thermal)
- Long Range Target Detection/ Selection (Visual and Thermal)
- Scanning – Pan, Tilt and Zoom
- Long mission duration
- Automatic Mode - Video Motion Detection
- Remote Detection Mode - Externally triggered by UGS
- Single Station controls multiple sensors
- Real-time digital video communication
- Excellent camouflage-ability - motionless, noiseless, reflectionless
- Rapidly Deployed
- Tamper Alarm
- Modular design
- Watermarked recording – Optional

MUGI Surveillance Unit

Visual range (moving human recognition)	>2500m
Visual FOV	1°x 0.7° – 9°x6°
Thermal range (moving human recognition)	>1200m
Thermal FOV	7.3°x5.5°
Pan (Internal)	78° (±39°)
Tilt (Internal)	20° (±10°)
VMD – Video Motion Detection	

Continuous mission duration

Rechargeable Battery Pack Unit	9-12 days (BPU10)
Non-rechargeable Battery Pack Unit	50-80 days (BPU60)
Mission @ power saving modes	Up to 2 years
Capable of working with other standard batteries	

Real Time Video Transmission

Transmission range (LOS)	Up to 20 km
Non Line Of Sight	Optional with repeater
Frequencies (tunable)	2.4 GHz band (802.11b/g) 5 GHz band (802.11a)
SATCOM (BGAN)	External module
GSM / 3G	External module

