

## PRESS RELEASE

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**CONTACT: Menachem Glik , PR & New Media consulting  
For the Photonics & Vision industry**

PHONE: +972-54-4991371

E-MAIL: [menachemg@hotmail.com](mailto:menachemg@hotmail.com)

### **Senso Optics Announces Thermal Vision Sensor (TVS) which incorporated within Enhanced Vision System (EVS) for pilots situational awareness, safe taxing, takeoff & landing of aircrafts**

The TVS provides the flight crew with a real-time enhanced thermal image of the external scene in all weather conditions.

**Yokneam, Israel – July 01, 2013** – Senso Optics, a leader in the design, development and production of innovative thermal imaging technologies and advanced electro-optical solutions for military, paramilitary and security markets both in Israel and around the world, announces the new TVS - Thermal Vision Sensor for Enhanced Vision System (EVS), which enable safe taxing, takeoff & landing of aircrafts. The EVS presents an image of the external environment to enhance pilot situational awareness of terrain and the airport environment in low-visibility situations.

Darkness, and clouds are the primary enemies of flight, but technology is beginning to provide solutions. Thermal Vision Systems present pilots with an infrared view of surroundings, penetrating darkness and weather conditions.

The TVS (Thermal Vision Sensor) is a thermal camera, sensitive to the Long Wave Infra-Red (LWIR) spectrum and based on an uncooled micro-bolometer, 17µm pixel pitch, VGA (640X480) high sensitive (HS) detector.

TVS provides the flight crew with an enhanced image of the external scene allowing real time situational awareness and assistance during taxing, takeoff and landing in day and night. The TVS enhanced the pilot's ability to detect objects during adverse weather, reduced visibility conditions and at night which may not otherwise be visible.

**Jacob Dagan**, President & CEO of Senso Optics said, "We are pleased that the TVS - Thermal Vision Sensor for Enhanced Vision System can provide our clients with higher safety and comprehensive solution for low visibility conditions". With the TVS "You know exactly where you are", **Dagan** said.

The TVS features increased sensitivity and wide operating temperature range together with low power consumption and small sizes. Thereby expanding options for seeing terrain, avoid obstacles, including cables, in darkness and all weather conditions.

For more information about the TVS please contact [info@sensio-optics.com](mailto:info@sensio-optics.com) or visit our website at <http://www.sensio-optics.com> to learn more about our complete product line.

### **About Senso – Optics:**

Senso Optics is a leader in the design, development and production of innovative thermal imaging technologies and advanced electro-optical solutions for military, law enforcement' security & commercial markets.

Senso Optics offers a wide range of **visual information and targeting solutions** for day and night missions. Its products can be easily customized and integrated into a variety of systems or operated as stand-alone units. Product lines include: Multi-sensor sights, fire control systems, hand held goggles & monoscopes, vehicle mounted thermal imaging cameras, CCD cameras, border and strategic infrastructure monitoring solutions; thermal vision helmets for fire fighters and search & rescue units, as well as thermal sensors and a wide range of thermal lenses.

The company invests extensively in R&D and in advancing product maturity, while maintaining strict QA and environmental policies.

Senso Optics is committed to remaining at the forefront of thermal vision technology and being a leader in **visual information and targeting solutions** for the defense, commercial and homeland security (HLS) markets.

<http://www.sensio-optics.com>

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### **Company Contacts:**

Jacob Dagan

President & CEO

Tel: +972 4 9935527

E-mail: [info@sensio-optics.com](mailto:info@sensio-optics.com)

## Technical Specifications

Temperature Range:	-40°C ÷ +70 °C
Detector Technology:	Uncooled VOx micro-bolometer, HS (High Sensitivity)
Spectral Range:	8÷12.5μ
Lens:	F#/0.7 or 1.2 Selected according to scene dynamic range
Focus:	Fixed (A-thermal optics correction)
Focus Range:	13m to infinity
Max Sensitivity:	~32mK
FOV:	35° X 27 °
Resolution:	640 X 480
Pixel Size:	17μ
Weight:	500g
Voltage:	12V
Time to image:	< 5 seconds
Power Dissipation:	< 6W
Design Regulation:	DO-254 Level C
Video Out:	Camera Link
Communication:	RS485
NUC:	Auto or Manual

### Pictures:

