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## Israeli Security Industry



Despite the fact Israel is a country of limited natural and financial resources it has been for several years on the forefront of Research and Development (R&D) in advanced technologies. Israel is following the example of many other small countries that use R&D and the know-how produced through it so as to enhance their

competitive position and counterbalancing the limited natural resources that they have. The Security Industry is among the industries that have been benefited from this. It is indicative that around (600) Israeli companies are active in the Security Sector, broken down as follows: 35% Technologies, 35% Products, 20% IT & Software, 10% Services.

The success of the industry is also highlighted by the fact that in 2010 (350) Israeli security companies totalled an unprecedented \$7.2 billion in exports an increase on the \$6.9 billion achieved in 2009.

The main subsectors of the security industry are the following:

### **Avionics/Aviation Security**

Satellites; Fighter Jets; Unmanned Aerial Vehicles (UAVs) such as the Predator drone (Israel Aerospace Industries (IAI)); Arrow Theater Missile Defense System (Rafael, IAI, Boeing).

### **Maritime Security**

The Protector, unmanned naval patrol vehicle (Rafael).

### **Land Force**

The Merkava tank, the Uzi submachine gun, Galil and Tavor rifles.

### **Public Security**

Crisis & Emergency Management, Counter Terrorism, CBRN, EMS and Public Awareness.

### **Critical Infrastructure Protection**

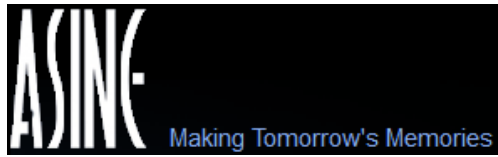
Electronics, Optronics, Thermal Imaging, Biometrics, Smart Cards, IT Security & Anti-Fraud. Infrastructure protection from Israel is currently being used at Buckingham Palace, the Vatican, and the Eiffel Tower etc.

Israel is a "Success Story" when it comes to R&D as it is one of the first countries worldwide on a per capita basis in its ability to generate new technology-based companies with innovative market-focused products. The two main reasons behind this are the unmatched pool of highly skilled workers and the world-renowned research and academic capabilities the country has.

Kyriazis Vasileios

Epicos Newsletter Head Editor

Interview with Mr. David Bar, Business Development Manager of ASINE company



Mr. David Bar, Business Development Manager of ASINE Company, gave an exclusive interview to Epicos, regarding the position of the company in the international and national markets. Among others, he stated that: "Asine is a certified

vendor for Aerospace, Defence & Automotive applications. Asine has deep knowledge of high tech embedded solutions supporting harsh environment, low cost of ownership (TCO), long term support (14 years and more) and more. Asine is currently at growing stage and expanding its sales channels worldwide covering Far-East, Europe and North America".

1. Could you please describe the current place of ASINE in the national and international market?

Asine was established on 1999 and is currently active for 15 years in the international market with rich experience, serving a variety of industries.

Asine is an innovative designer & manufacturer, providing high grade industrial flash memory products, embedded solution storage units and board level.

Asine is a certified vendor for Aerospace, Defence & Automotive applications. Asine has deep knowledge of high tech embedded solutions supporting harsh environment, low cost of ownership (TCO), long term support (14 years and more) and more. Asine is currently at growing stage and expanding its sales channels worldwide covering Far-East, Europe and North America.



A Selection of Asine's Customers

Asine is currently at growing stage and expanding its sales channels worldwide covering Far-East, Europe and North America.

2. Could you please briefly describe the history of the company?

ASINE was established in 1999, as a privately held company, with Head Quarters in Israel, office and certified manufacturing lines in the USA.

Asine had a strategic technology & marketing cooperation with world known M-systems - Industrial Div. flash disk pioneers (acquired by SanDisk, 2006).

Asine has been approved as a certified design & technology house by Freescale Semiconductor, National Semiconductor, AMD, Kontron, ARM, Xilinx, Altera.

The main advantage of our company is that we develop and produce highly technological competitive innovative Aerospace & Defence products and solutions.

### 3. Could you please name the main customers of ASINE?

- |                        |                                       |                                       |
|------------------------|---------------------------------------|---------------------------------------|
| 1. EADS                | 9. GE Fanuc/ SBS                      | 14. Renault                           |
| 2. Boeing              | 10. Melco - Mitsubishi Electric Corp  | 15. Renault Formula-1                 |
| 3. Thales Avionics     | 11. MHI - Mitsubishi Heavy Industries | 16. VOLVO                             |
| 4. SAAB Avionics       | 12. Hitachi Ltd.                      | 17. IAI (Israel Aerospace Industries) |
| 5. Singapore Aerospace | 13. Milan Public Transportation       | 18. Motorola                          |
| 6. RUAG Aerospace      |                                       | 19. Elbit                             |
| 7. General Dynamics    |                                       |                                       |
| 8. Thales Systems      |                                       |                                       |

### 4. Could you please describe the main services and/or products the company provides?

Asine designs and manufactures three main product lines & services:

#### A. SSD - Solid State disk storage:

1. Flash SSD SLC & MLC - SATA / PATA / SCSI
2. Board Level SSD - MO297/Half-Slim / PMC / CompactPCI / PCIe/express / VME
3. Component Level "Nano" miniature SSD SMT device

#### **AS25 SATA-PATA SSD**



#### B. System Level services solutions:

1. Automotive Formula-1 data capture logger, digital map
2. Processing & collection Unit Airborne data processing & collection unit with removable cassette
3. Aerospace event recorder removable storage
4. Automotive Fleet Health Monitoring & control with CANbus, cellular data and GPS
5. Avionic Media Player

### ASR3104 System - Airborne flight data



- C. Consulting services and in-house design for technological challenges, i.e. - high availability, small dimensions, high temperature & vibrations, high altitude (> 80,000 ft.), low power, etc.



#### 5. Is the company currently investing in a new technology?

Yes, we are currently investing in the following technologies:

- New Automotive Infotainment systems, miniature storage & system products.
- Cyber threats risks on system connectivity e.g. CAN bus and Internet.

#### 6. What are the next steps and priorities of ASINE?

Our next steps are to look for Aerospace & Defence partners in order to form a joint venture R&D.

For Further Information Visit the Company's Website at <http://www.asinegroup.com/>

Or Contact

#### **David Bar**

Business Development Manager

PH: +972-9-7403048 ext.#402

Fax: +972-9-7488193

E-mail: [David@Asinegroup.com](mailto:David@Asinegroup.com)

## Epicos “Industrial Cooperation and Offset Projects”



Epicos “Industrial Cooperation and Offset Projects” provides a unique set of online tools enabling the structure, identification and implementation of comprehensive Offsets programs, through a searchable database. By introducing different offset projects and ideas proposed by local A&D industry it ensures the optimum cost for Prime Contractors and reassures that the priorities of local industry are fully met...

[For Further Information Press Here](#)

### Development of an airborne multi-system platforms upgrade system with state of the art data bus recording and evaluation capabilities



A company, world leader in avionics communication boards and system level products, is proposing, in the frame of an offset program, collaboration with prime contractors or military and homeland security authorities, for the development of an airborne multi-system platforms upgrade system with state of the art data bus recording and evaluation capabilities. The proposed system will be based on an existing and fielded product of the company.

[For Further Information Contact our ICO Department](#)

Mail at: [g-menexis@epicos.com](mailto:g-menexis@epicos.com)

### Mini-UAV compact avionics package



A leading company in the design and development of advanced avionics systems is proposing the development and installation of a miniaturized avionics package system to be used in several Unmanned Airborne Vehicle (UAV) designs. The proposed system will utilize state of the art sensors technology and it will include rate sensors, acceleration sensors, GPS, air data sensors and multiple I/O signals, all controlled and monitored by a single powerful processor. The developed system will be capable of fulfilling the related requirements of existing or new UAV designs.

[For Further Information Contact our ICO Department](#)

Mail at: [g-menexis@epicos.com](mailto:g-menexis@epicos.com)



### Elbit Systems Reports First Quarter of 2014 Results



Elbit Systems Ltd. the international defense electronics company reported today its consolidated results for the quarter ended March 31, 2014.

In this release, the Company is providing US-GAAP results as well as additional non-GAAP financial data, which are intended to provide investors a more comprehensive understanding of the Company's business results and trends. Unless otherwise stated, all financial data presented is GAAP financial data.

For Further Info [Click Here](#)

### Gilat to showcase its BlackRay terminals for Unmanned Platforms in AUVSI 2014



PETAH TIKVA, Israel, May 12, 2014 – Gilat Satellite Networks Ltd. (Nasdaq: GILT), a worldwide leader in satellite networking technology, solutions and services, announced today the availability of BlackRay 300, BlackRay P60 and BlackRay

Marine 250 which are part of its BlackRay suite of terminals specifically designed for operations on unmanned platforms.

The BlackRay terminals seamlessly integrate Gilat's RaySat low-profile antennas, Gilat's MLT-1000 modem system and Gilat Wavestream BUCs to form compact and fully integrated terminals. The antennas also include enhanced accuracy satellite tracking mechanism, providing short initial acquisition and instantaneous re-acquisition time. BlackRay features an efficient SWAP design which is especially suited for compact UAS and USV platforms. Its innovative low-profile design provides better safety, smaller radar cross-section and improved maneuverability for military platforms.

The suite of broadband Beyond Line Of Site (BLOS) two-way communications solutions includes the following models for Unmanned Air Systems (UASs):

#### **BlackRay 300**

- Compact X-band terminal
- Flat-array, low-profile tracking antenna
- High-performance satellite modem and BUC

- Can transmit over 2Mbps of IP-based voice, video and data applications
- Designed to MILSPEC

### **BlackRay P60**

- Ku-band and Ka-band airborne terminals
- Parabolic 60cm carbon-fiber tracking antenna
- Installation within the UAS fuselage
- Can transmit over 20Mbps of IP-based voice, video and data applications
- Available in 2 or 3-axis gimbal configurations (3-axis gimbal eliminates the keyhole effect in equatorial areas)

### **BlackRay 71**

- Extremely compact Ku-band and X-band airborne terminals
- Integrated enclosure includes flat-array low-profile antenna, satellite modem and BUC
- Minimal SWaP for installation within the UAS fuselage
- Can transmit over 1Mbps of IP-based voice, video and data applications

The suite also includes the following model for Unmanned Surface Vessels (USVs)

### **BlackRay Marine 250**

- Compact Ku-band terminal
- Field-proven to sustain harsh marine environments
- Can transmit more than 2Mbps for any IP based voice, video and data applications

### **About Gilat**

Gilat Satellite Networks Ltd (Nasdaq:GILT) (TASE:GILT) is a leading provider of products and services for satellite-based broadband communications. Gilat develops and markets a wide range of high-performance satellite ground segment equipment and VSATs, with an increasing

focus on the consumer and Ka-band market. In addition, Gilat enables mobile SOTM (Satellite- on-the-Move) solutions providing low-profile antennas, next generation, solid-state power amplifiers and modems. Gilat also provides managed network and satellite-based services for rural telephony and Internet access via its subsidiaries in Peru and Colombia.



With over 25 years of experience, and over a million products shipped to more than 85 countries, Gilat has provided enterprises, service providers and operators with efficient and reliable satellite-based connectivity solutions, including cellular backhaul, banking, retail, e-government and rural communication networks. Gilat also enables leading defense, public security and news organizations to implement advanced, on-the-move tactical communications on board their land, air and sea fleets using Gilat's high-performance SOTM solutions. For more information, please visit <http://www.gilat.com>



### Taiwan privatises state aircraft maker AIDC

Taiwan's sole aircraft maker AIDC was given the green light to list on the local stock exchange Monday, as part of a government drive to privatise large state-owned enterprises.

The application for Aerospace Industrial Development Corp to begin trading shares was approved by the Taiwan Stock Exchange during a committee meeting, the company said.

Company spokesman N.J. Lin told AFP that the aircraft maker, which has reported profits for seven years in a row, would continue to benefit from robust global demand for commercial aircraft.

"Looking ahead, we have faith in the company's operations, as current strong demand is expected to remain unchanged for several years," Lin said.

AIDC posted a net profit last year of Tw\$1.3 billion (\$42.7 million) on revenues of Tw\$23 billion. Privatisation plans have swirled since the mid-1990s after the firm produced the last of its Indigenous Defence Fighters (IDF) -- the island's only locally designed fighter -- as the air force moved to the US-made F-16.

The firm has since become a supplier of commercial parts, producing components for several aerospace giants including Boeing, Airbus, Bell, Sikorsky and Bombardier Aerospace while retaining maintenance contracts with the air force. Founded in the eastern Chinese city of Nanjing in 1946, AIDC was reorganised as the Aero Industry Development Center in 1969 and as a state enterprise in 1995.

**Source:** 2014 AFP, Agence France-Presse (AFP)

### EasyJet trims first-half loss to £41 mn

British no-frills airline EasyJet trimmed losses in the first half of the group's financial year, helped by rising sales and falling costs, it said on Tuesday.

Net losses stood at £41 million (\$69 million, 50 million euros) in the six months to March 31, compared with a loss of £47 million in the same part of its previous fiscal year, it announced in a results statement.

EasyJet added that pre-tax losses also improved to £53 million, from £61 million last time around.

### Sikorsky to build new US presidential helicopter

The Pentagon on Wednesday awarded Sikorsky Aircraft a \$1.2 billion contract to build six new US presidential helicopters to replace the current aging fleet of "Marine One" aircraft.

The effort to replace the 19 helicopters that transport the American president has dragged on for years, after a previous project led by Lockheed Martin was cancelled in 2009 over massive cost overruns.

Unlike the last attempt that required a long list of new technical improvements, the latest plan is less ambitious and is based on Sikorsky's S-92 chopper, which is already used by governments and private companies around the world.

The twin-engine S-92, which has been in service since 2004, is flown by government agencies for search and rescue operations and by oil firms to ferry workers to offshore platforms. The military version can carry 22 passengers.

Sikorsky has built all previous presidential choppers starting with an aircraft regularly used by president Dwight Eisenhower in 1957.

Under the contract, Sikorsky will build six aircraft and two trainer simulators for the US Marine Corps, the first step in a plan to construct 21 new choppers by 2023.

The current presidential fleet, known for its distinctive green and white paint job, is a mix of larger, older VH-3D Sea King helicopters and the newer, smaller VH-60N "WhiteHawk."

A symbol of American power, the current presidential helicopters have systems that can counter missiles and deliver encrypted messages, but officials said their replacement was long overdue.

**Source:** 2014 AFP, Agence France-Presse (AFP)

### IAG airlines group cuts losses

International Airlines Group on Friday said it had significantly reduced group losses in the first quarter thanks to cost cutting at Spanish carrier Iberia and improved performance by British Airways.

IAG's net loss stood at 184 million euros (\$254 million) in the three months to March 31 compared with a loss after tax of 630 million euros in the first quarter of 2013, the company said in a statement. Revenues grew 6.7 percent to 4.2 billion euros.

"Iberia has almost halved its losses from quarter one last year," IAG chief executive Willie Walsh said in the statement.

"The airline continues to benefit from restructuring and these figures don't reflect the impact of recent pay and productivity agreements which took effect in April," he added.

British Airways meanwhile made an operating loss of five million euros in the first quarter but down heavily compared with one year earlier.

"The airline has increased capacity within a controlled cost environment and benefited from the efficiency of its new Airbus A380 and Boeing 787 aircraft," the statement said of BA.

For the first quarter, IAG posted also a 30 million euros operating loss at Veuling -- the Spanish budget carrier it acquired last year.

IAG meanwhile said that it expects to improve operating profit for the 2014 full year by at least 500 million euros.

**Source:** 2014 AFP, Agence France-Presse (AFP)

### **Opgal and Lumus present thermal camera capabilities combined with eyewear at SPIE**

Opgal Optronic Industries, developers of the Therm-App™ mobile thermal imaging camera, and Lumus Ltd., developers of see-through wearable near-to-eye displays, have joined forces to provide mobile long-range night-vision capabilities. The Therm-App™ mobile device, mounted on headgear, transmits the high-resolution images to the Lumus wearable display, providing the user with a large, high-quality image.

"The combination of these two breakthrough technologies — Therm-App™ night vision with Lumus wearable displays — presents an exciting, and more importantly, useful solution for professionals who require hands-free operation in complete darkness or limited visibility," said Amit Mattatia, President & CEO of Opgal. "This innovative solution provides security teams, search and rescue first responders, and other types of professionals working in darkness with lightweight, portable and powerful night vision capabilities," added Mattatia.

"The combined solution of the Therm-App™ and Lumus eyewear demonstrates how our patented Light-guide Optical Element (LOE) technology allows for a new level of comfort, style and effectiveness for night vision applications, which can be utilized in numerous applications," said Dr. Eli Glikman, Chief Product Officer of Lumus Ltd.

The companies presented the new mobile imaging solution at the SPIE exhibition taking place in Baltimore, U.S.A. on 6-8 May.

For Further Information [Click Here](#)