



Integrated Physical & Cyber Security Solutions



Magal's Mission

To be the global trusted choice for

reliable, innovative & integrated Security Solutions.

Magal's Advantage

In-house research, development and manufacturing of the most trusted security products and solutions on the market, allowing Magal full-process control from design to hand-over.

Corporate Overview



Magal Security Systems Ltd. incorporated in Israel, publicly listed in NASDAQ (MAGS)



12 subsidiaries globally and several sales offices



Magal operates in two divisions and under two different brands – “Senstar” & “Magal”



Projects and solutions division under the Magal brand operates as an integrator mainly in developing markets, providing tailor-made solutions to comprehensive and complex turnkey projects.



Products divisions under the Senstar brand operates mainly in developed markets

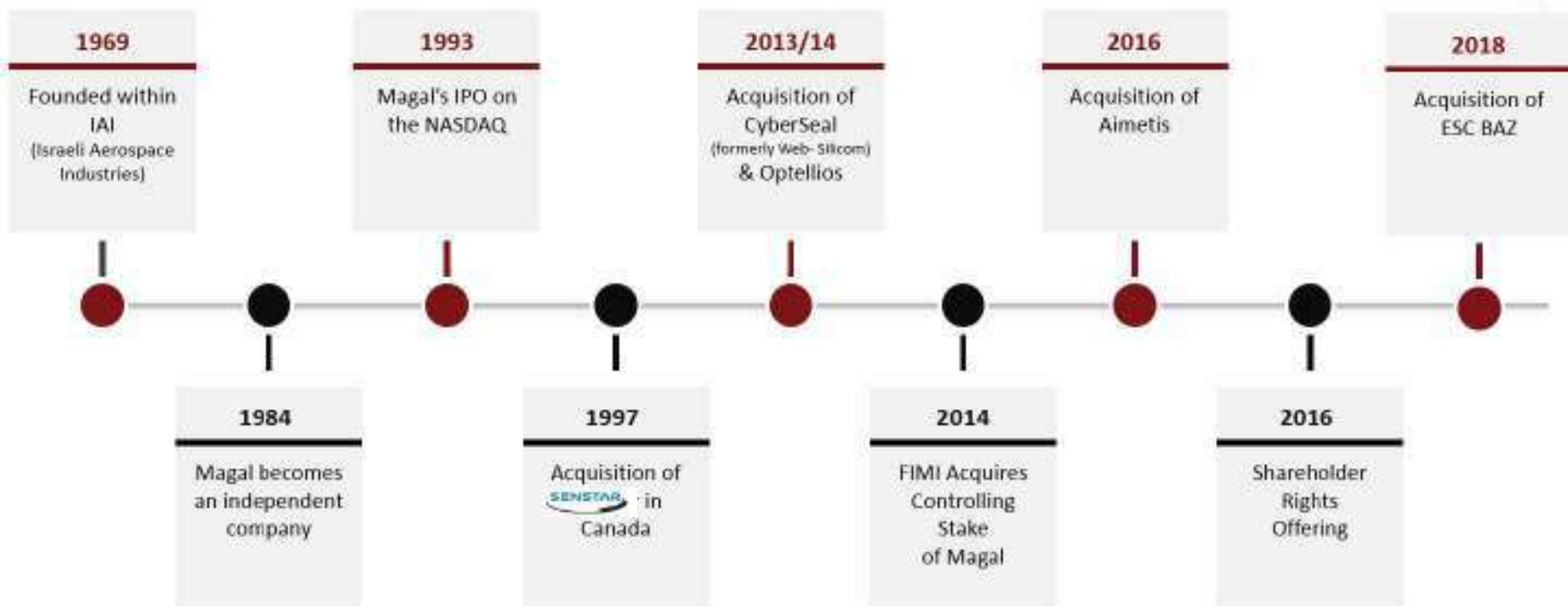


Install base in more than 80 countries



ISO Certified (9001:2000 Quality, 14001 Environment, 18001 Health and Safety)

Company History



Main facilities

Israel, Yehud
Corporate HQ and Magal Israel

Canada, Ottawa & Waterloo
PIDS & VMS R&D Centers
Projects

United States, Philadelphia
Fiber Optic R&D center

Mexico, Cuernavaca
Projects and PIDS

The Rest
Sales and support offices

Global Operations



**Largest private test
site in the world
Located in Ottawa**





Airports



Borders



Seaports



Prisons



Oil and Gas

Verticals



Critical Infrastructure



Regulated Cannabis



VIP sites



Military Facilities



Smart City



Safe City

50 Years of Proven Experience



Kenya Ports Authority



Reference Projects

Project Name	Description	Total Value
Africa Cup of Nations, CAF, Gabon 2011-2012	Turnkey solution of the security for multiple venues of "Africa Cup of Nations" football tournament, consisting of CCTV, Fence PIDS, Command and Control, Networking and Digital Recording and Access Control	€ 38,000,000
Africa Cup of Nations, CAF, Gabon 2017	Complete upgrade and renewal of the Turnkey solution for the security for multiple venues of "Africa Cup of Nations" football tournament.	€ 3,500,000
Mombasa Port, Kenya 2010-2019	Turnkey solution of the port security, consisting of CCTV, Taut Wire Fences, Command and Control, Networking and Digital Recording and Access Control	\$ 34,000,000
Bucharest Airport, Romania	Turnkey solution of the port security, consisting of CCTV, Taut Wire Fences, Command and Control, Video Motion Detection, Networking and Digital Recording and Access Control	€ 21,000,000
India – Reliance Jamnagar Oil & Gas Refinery	Turnkey solution of the site perimeter consisting of CCTV, Access Control, Networking and Command and Control	\$ 4,000,000
Israel – East Border – 350km	Eastern Israeli border with dual technologies – Taut Wire and Vibration sensors	\$ 58,000,000
Israel – 9 Air Force Bases	Perimeter security solution with Taut Wire, Command & Control – Fortis 4G, vibration sensors	~\$ 15,000,000
Baku Airport, Azerbaijan	Turnkey solution of the airport security, consisting of CCTV, Taut Wire Fences, Command and Control and Video Motion Detection	\$ 13,000,000
Ben Gurion Airport, Israel 1988-2019	Taut Wire Fence, Decorative Fence and Vibration Sensors along the perimeter of the airport	\$ 12,000,000
DIAL – Delhi International Airport	Turnkey solution of the site perimeter consisting of Taut Wire Fence, buried cable, thermal cameras, Radars, CCTV and command and control	\$ 6,000,000

Technology & Product Portfolio



Our Smart PIDS Products

Multi-Layer system pending threat analysis

Cameras
Video Analytics

Covert Sensor
OmniTrax

Fence Mounted Sensor
FlexZone / FiberPatrol

Intelligent Lighting /
Fence Sensor
Senstar LM100

Volumetric Sensor
XField

Microwave Sensor
UltraWave

PIDS I

Fences & Barriers



Yael
Taut Wire



DTR
Taut Wire



InnoFence
Decorative
Smart Fence



MagBar
Robust Smart
Grid

Fence-Mounted Sensors



Barricade
Electro-
Mechanical
Vibration Sensor



Fensor
New Gen
Vibration Sensor



FlexZone
Ranging
Microphonic
Cable



FiberPatrol
Fiber-Optic
Sensor

PIDS II

Virtual Fences



OmniTrax
Buried
Volumetric
Sensor

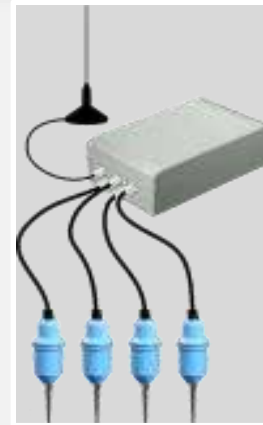


µltraWave
Bistatic Field
Detector



X-Field
Volumetric
Terrain
Following
Sensor

Seismic



PipeGuard
Anti Digging
Sensor



TunnelGuard
Assets
Protection

Cutting edge VMS with embedded Intelligent Video Analytics

- Advanced Outdoor Analytics:
 - Object identification, classification and tracking
- Embedded 3D Face Recognition, License Plate Recognition
- Small HW footprint
- Supports thermal surveillance systems
- Advanced forensics search
 - Suspect search and whereabouts



Verification & Tracking

01

**Long range
surveillance**
(Day & Night)

02

**Mid & short
range cameras**
(Day & Night)

03

Symphony
Video Management
System and Intelligent
Video Analytics



Gates & Access Control

01

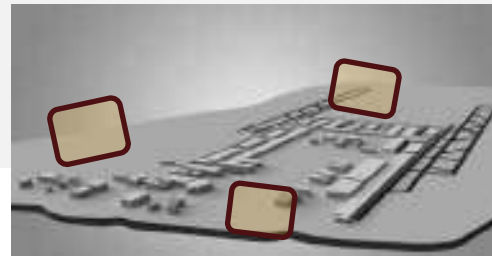
Gates Automation

- Bollards, anti terror gates, etc.
- Access Control
- Biometrics
- LPR

02

Scanners

- Under Vehicle Scanning system (UVSS / UVIS)
- Backscatter gates
- Container identification and classification
- Container & Vehicle damage



Cyber Protection



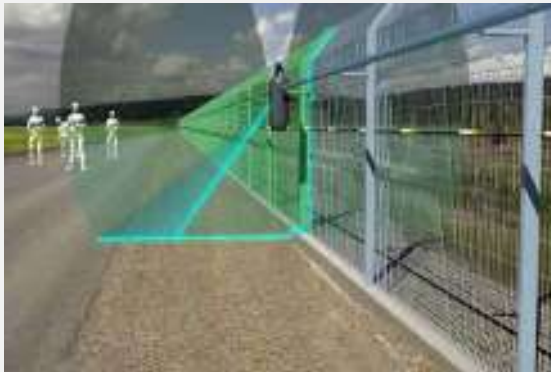
Tungsten

- Cyber Security Ruggedized Ethernet Switch
- Protecting the various communications layers
- Automatic mapping of network entities, learning contexts and communicating characteristics
- Continuous advanced monitoring of Communications and identification of anomalies - Alert or quick automatic response
- Detection of attacks from information sent (DPI)
- Latest switching technology
- Top of the line switch with the most advanced functionality
- Robust hardware design
- Dual power inputs (wide range)



Unmanned perimeter surveillance robot

Useful as a complementary solution for almost any perimeter application



01 Rail mounted platform, carrying sensors

02 Cameras, Laser radar, IR illumination, intercom, Optional - Tear gas

03 Patrol - autonomous scan, ensuring the perimeter integrity

04 Detection of fence cuts or holes

05 Detection of near-fence suspected objects / people

06 Random Patrol - avoid the Robot movement enemy prediction by performing random patterns

07 Fast response mode – directing the Robot to handle Event

Anti Drones & UAVs “MAG-3D”

Drone Detection & Defeat

1. Detection
2. Location/Tracking
3. Identification
4. Classification
5. Threat/No-threat
6. Response
7. Verification



Autonomous Drones



BASE

The Base is the main hub for the drone, providing the drone with shelter, charging services and constant communication. The base station will be deployed on-site in a location that will enable the drone to fly and conduct missions within flight and communication range.



Drones

A multi-rotor system that conducts autonomous missions across the facility. The drone is equipped with the "Core", a powerful unit that controls and helps guide the drone using computer vision applications and other advanced sensors and applications. The drone's dual payload allows for 24/7 site monitoring with high resolution day and thermal cameras.



Fortis4G C&C System

Enables the client to manage deployment of the drone(s) for ad-hoc missions and set scheduled routine flights. The system divides the site into no-fly zones, specific free-fly locations, and flight corridors ensuring the safety of humans and property. The system collects and stores all data generated during flight. The data is logged and can be reviewed later.

Main Features & Use Cases

Security & Safety

- Automatic response to alerts
- Fence & Perimeter patrol
- Autonomous human & vehicle detection
- Active object tracking
- Autonomous fire & gas detection

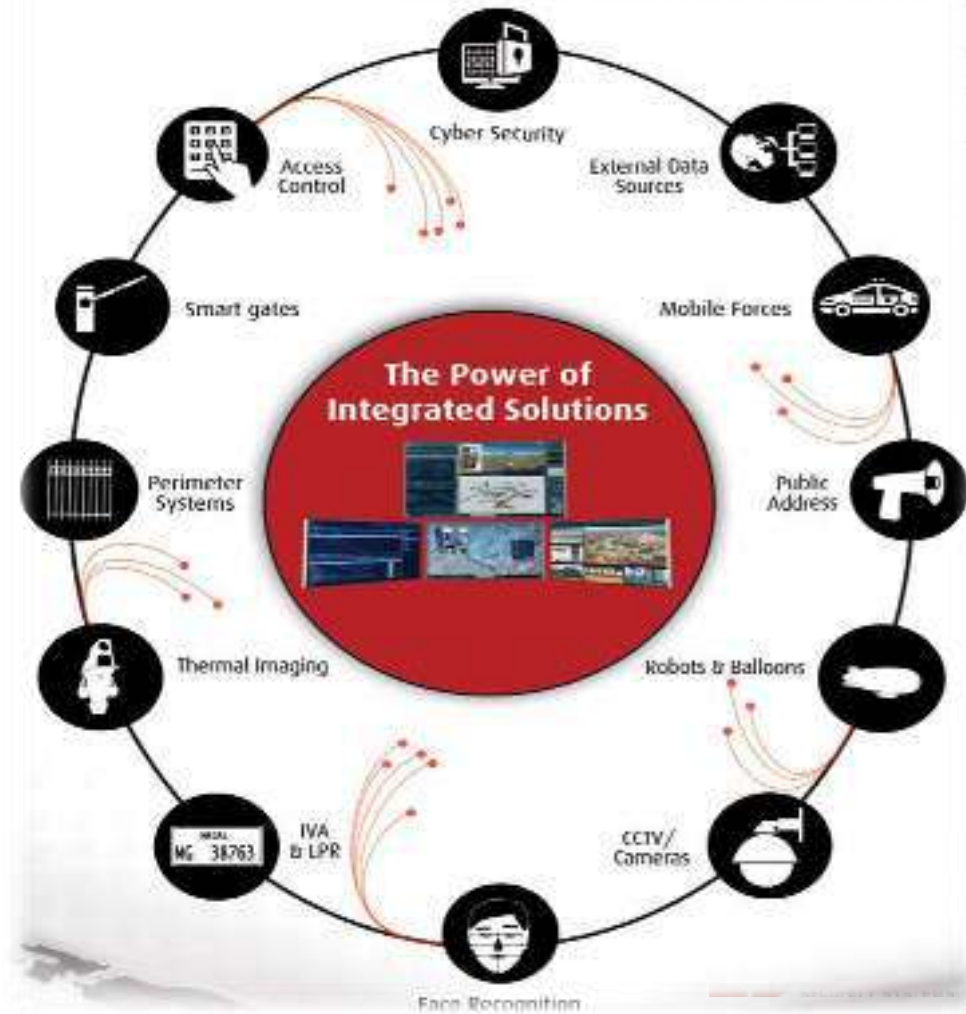
Operations & Maintenance

- Precise positioning for inspection
- Gas and leak detection
- Thermal structure inspection
- Piles inspection - Accurate volume measurements
- Multiple sensor support

Fortis 4G

Advanced, scalable, and flexible C&C

- ❑ Real-time data aggregation to enhance site managers' situational awareness
- ❑ Event-driven response through fully-tailored work-flows
- ❑ Rich and precise data distribution to first responders and chain of command
- ❑ Advanced 3D GIS engine
- ❑ Advanced integration tools for new applications
- ❑ Powerful IVA (Intelligent Video Analytics) for prevention, detection and investigation



Operational Support Post-Installation

1. Provision of security unit training
2. Establishment of Rapid Response teams for Critical sites
3. Provision of, or training of, Command and Control Operators
4. Counter-terrorism training
5. Train-the-Trainers Program
6. Operational Supervision
7. Intelligence gathering





Thank You