

# ARGUS™

## Perimeter Security System

U.S. Patent number 8,232,878  
EAR99 Export Classification



**ARGUS™ is a highly portable, self-localizing, and long-endurance RF-based perimeter intrusion detection system. This innovative system of networked, unattended sensors serves as a “wireless trip wire” for early warning against intrusions. An ARGUS™ system requires no infrastructure and can be deployed in minutes. Cameras or other sensors can be cross-cued by alerts issued by ARGUS™ to provide automated visual verification of the perimeter breach. ARGUS™ provides intrusion detection on any terrain, non-line of sight locations, and can operate through walls, foliage, and other obstructions.**

Originally developed for U.S. Military applications, **ARGUS™** provides unattended and reliable protection for commercial, government, and institutional infrastructure. With as few as two to as many as fifty **ARGUS™** devices, users can secure small areas or vast expanses without the need for dedicated security personnel nor surveillance systems. **ARGUS™** provides automated alerts of perimeter intrusions. Captured images are sent to a command center, remote monitoring station, or mobile device.

**ARGUS™** is fully interoperable with a wide range of COTS surveillance systems and can also be used to trigger existing systems to maximize video monitoring effectiveness. Images and alert data are archived within the **ARGUS™** command center for analysis and potential prosecution. Never before has physical security been so easy and convenient.

The **ARGUS™** family of products is a complete tool set that provides the following:

- Designed for indoor and outdoor environments with foliage and other obstructions
- Built for extreme weather & temperature conditions
- Optimized for long-term, unattended operations
- Fully interoperable with existing security networks
- Resistant to jamming and spoofing attacks

## ARGUS™ Principle of Operation



- Mesh of sensors form invisible RF-based trip wires
- Alerts are triggered when intruders cross the detection zone

### ARGUS™ is ideal for a range of applications

- Tactical Deployments
- Covert Operations
- Border Protection
- Permanent Security Applications
- Infrastructure and Asset Protection

# Sensor Technology Comparison

	ARGUS™	Optical	Seismic	Passive IR	Microwave	Magnetic
Substrate Independent	✓	✓		✓	✓	
All-Weather Operation	✓				✓	✓
Line Detection	✓	✓		✓		
Temperate Independent	✓				✓	✓
Operates in Foliage and Obscurants	✓		✓			✓
Mesh Coverage	✓					
Mounting Independent	✓			✓	✓	
Cost of coverage per square km	Low	Med	Low	Med	Med	High

## The ARGUS™ Family of Products serves all your needs:



### Tactical Deployments

Rapidly deployable **ARGUS™** kits for First Responders, Military, and Police. Provides situational awareness with existing and/or **ARGUS™** cameras that can be integrated with Operations Centers.



### Expeditionary Applications

Highly portable and compact expeditionary nodes that can be mounted anywhere for covert operations. Customizable security perimeter providing warnings of approaching threats.



### Border Protection

Designed for permanent applications, **ARGUS™** border protection poles operate for up to 4 years. Layered mesh network enables large-area intruder tracking. Camouflage options available.



### Asset Security

**ARGUS™** Aero Sentry nodes are integrated with safety cones, creating an RF barrier around aircraft and critical assets. Ideal for protection on the tarmac and optimized for aviation security. Visual verification of alerts via MMS/SMS messaging.



### Permanent Installation

Hardened industrial **ARGUS™** permanent nodes work as stand-alone, temporary or permanent security for construction and/or industrial sites. Remote antenna options for mounting **ARGUS™** nodes. Hard-wire and solar power options available.



### Custom Configurations

Nodes can be hidden and connected to the RF antenna up to ten feet away. Packaging options allow **ARGUS™** nodes to be mounted on signs, enclosed in poles, and even installed within drywall for indoor security.

# ARGUS™ Accessories

ARGUS™ has a range of accessories allowing the user to customize the system to meet the user's requirements.

## Extended battery lifetime options

- BB25XX military batteries
- Hard-wire power compatibility
- Turn-key solar panel recharging systems

## Wireless network relays for extended point-to-point communications

- 5 GHz data link and long-distance microwave relay options

## Custom and optimized antennas

- Directional high-gain antennas
- Specialized installations

## Integrated camera systems

- ARCAM fish-eye camera for visual identification
- ARGUS™ Eye, a Pan Tilt Zoom (PTZ) camera
- Other COTS IP cameras fully supported



# ARGUS™ Software

## ARGUSView™ Standalone

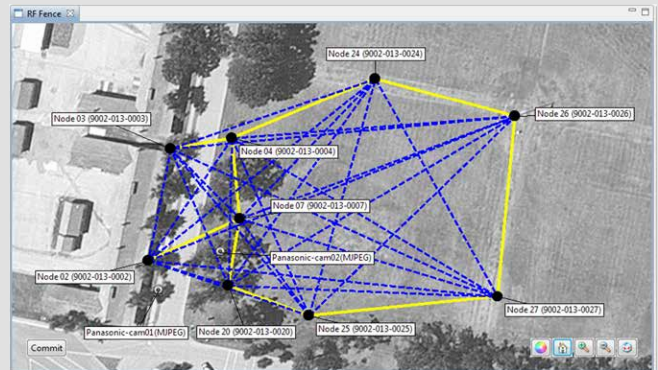
- Monitor status and alerts on a PC connected to the ARGUS™ sensor network
- Map-based user interface

## ARGUSView™ Cloud

- Enterprise software for remote access anywhere
- Private/public hosting options available

## Software interoperability

- Cursor on Target (CoT) - Connect to other SA tools, including RaptorX, ATAK, Spyglass, etc.
- Integrated Sensor Architecture (ISA)



## ARGUSView™ Mobile

- SMS/MMS notifications for alerts and system status
- Interface and control using Android devices

# ARGUS™ Deployments

ARGUS™ has been tested and evaluated at myriad locations and fielded for diverse applications. Deployments include but are not limited to the following:

- Tactical Field Evaluations by the U.S. Department of Defense and Government
- Industrial Complexes
- Domestic and Foreign VIP Protection
- Special Operations Forces, Anti-Terrorism Units
- Security Complex for Nuclear Safety
- Special Operations Technical Evaluations
- Aircraft Security
- Border Protection
- Commercial Surveillance



<b>Specifications</b>	<b>Tactical</b>	<b>Expeditionary</b>	<b>Border</b>	<b>Asset</b>	<b>Permanent</b>
Battery Runtime	4 weeks	1 week	6 months to 4 years	2 weeks	Indefinite
Sensing Modalities	RF trip wire, GPS, Motion	RF trip wire, GPS*, Motion	RF trip wire, GPS*, Motion	RF trip wire, GPS*, Motion, Camera	RF trip wire, Camera
Peripherals*	Passive IR, Camera	N/A	Passive IR, Camera, Acoustic, Seismic	Camera	Passive IR, COTS security systems
Mounting Options	Tripod, Ground spike	Wall and Tree Mount, Tripod, Ground spike	Free standing, Ground spike, Concrete base	Safety Cone (internal to)	Custom
Expansion I/O port	Yes	No	Optional	No	Yes
Max. Sensing Range	50m (in open environment); 35m (in moderate foliage); 25m (in dense foliage)			25m (cone or wall mounted)	
Max. Range for Comms	1 km in Line of Sign (LoS) environment				
Operating Temperature	-35°C to 85°C				
Enclosure Rating	IP65 - sealed against dust and splashing/falling water				

\*Optional

Specifications subject to change without notice



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