ARGUS™ Perimeter Security Solutions

ARGUS Perimeter Security Solutions provides comprehensive turnkey systems for physical security, intrusion detection, and access control. The ARGUS suite of fully wireless solutions supports customized deployments in any environment without need for pre-existing infrastructure.

Complete, deployable solutions for perimeter security
Secure 1 km perimeter in a day with no existing infrastructure
Supports construction through multi-site operations

Originally developed for US defense agencies and front-line warfighters…
The ARGUS platform has been adapted to fit within the industrial sectors while retaining its original objective as a rapidly deployable, constantly evolving, physical security system. ARGUS provides reliable unattended protection and monitoring for commercial, government and critical infrastructure.

Systems Engineering and Integration
The ARGUS team has developed a suite of intrusion sensors, access controls, imaging systems, and control equipment that allows for both off-the-shelf deployments and customized products for multi-layer perimeter security networks. Our team has expertise in integrating with existing third party equipment and creating custom system designs for the most complex situations.
Sensor Design and Manufacturing
ARGUS Security Solutions feature sensors and technology developed and manufactured by the ARGUS Product Engineers in Rockville, MD. Our in-house manufacturing and engineering capabilities allow for rapid integration, customization, and deployment.

Applications Engineering
The ARGUS team can quickly integrate, adapt, or create technologies for your site, including sensors, access controls, actuators, lighting, and camera systems. Our team leverages experience in developing dozens of products and accessories to rapidly create prototypes for evaluation and readily transition to production.

Systems Installation and Maintenance Services
The ARGUS team provides turnkey installation and maintenance services. Because our unique system designs require no existing infrastructure, large complexes can be secured with ARGUS equipment in just one day.

The ARGUS team can support long-term operations with 24-hour performance and security monitoring via the ARGUSView platform. This allows the ARGUS team to autonomously perform continuous performance assessments to detect system anomalies, and rapidly dispatch service teams.

Enterprise Software
The user-friendly graphical interface provides a complete situational awareness platform for your connected perimeter security equipment across all of your installations. ARGUSView supports both local and remote monitoring for security teams. Users can efficiently assess alarm locations and associated imagery on map-based interface.
Radio-Frequency Intrusion Sensors

ARGUS RF-based intrusion detection sensors feature rapid and easy deployment without any need for sensor alignment. RF-based sensors work in all weather conditions and can operate through light foliage. Arrange networks of these wireless sensors around the perimeter of your facility or point of interest to create a virtual fence for intrusion detection.

**PN 3004-001-A-007 Perimeter Security Node**

Free-standing, battery-powered security sensor used in temporary construction applications

**Specifications**
- Placement: Outdoor, Free-standing
- Size: 3.5' tall with 1' x 1' base
- Weight: 10 lbs
- Runtime: 6 months, Battery-powered
- Modality: RF, Mesh network
- Detection Range: up to 100'
- Construction: Fiberglass, Molded plastic
- Weather Rating: IP66

**PN 3004-001-A-012 Guardian Node**

Fence-mounted, solar-powered security sensor with backup battery for permanent installations

**Specifications**
- Placement: Outdoor, Fence mount (18", 21" or 24" offset)
- Size: 2.5" x 6.5" x 15"
- Weight: 5 lbs.
- Runtime: 1 week battery backup with no sunlight
- Modality: RF, Mesh network
- Detection Range: 30'
- Construction: Molded plastic, Metal mouth points
- Weather Rating: IP64

**PN 3004-001-A-014 Mobile Node**

Portable sensor designed for temporary and rapid deployment scenarios. Intended for short-term engagements and asset protection. Small form factor allows for easy concealment.

**Specifications**
- Placement: Outdoor/Indoor, Tripod
- Size: 7.3" x 1.8" x 1.2"
- Weight: 0.5 lbs
- Runtime: 1 week, wirelessly rechargable battery
- Modality: RF, Mesh network
- Detection Range: 75'
- Construction: Molded plastic (1/4-20 Camera mount)
- Weather Rating: IP64

*Range varies based on its height off the ground. Lower placement, such as within a traffic cone, may require shorter sensor-to-sensor positioning.*
Weighted bases attach to a Perimeter Security Node to secure the sensor on uneven terrain or in windy environments. Weighted bases replace the use of ground spikes in securing the sensors.

Available in 7 lb. or 18 lb. Base Styles

The PIR Sensor provides a secondary Passive Infrared (PIR) sensing modality to the Guardian node. PIR receivers are positioned looking down to detect potential intrusions from under the fence line. The PIR sensors are positioned for overlapping coverage with a nominal spacing of 24-30’.

Guardian Mount Extension Brackets

Swappable brackets mount Guardian sensors on a variety of fence styles. Extension brackets additionally place the sensors higher or lower on the fence as needed. Custom brackets can be designed as needed depending on the deployment environment.

A) Standard Bracket
B) Corner Picket Bracket
C) Height Adjustment Bracket

The ARGUS Portable Kit is a fully operational security system. It is equipped with everything needed to secure and monitor a temporary asset or location and packs away into a carry-on sized transport case. This kit consists of:

- 7x ARGUS Mobile Nodes with straps for sensor placement
- Ruggedized tablet for setup and monitoring
- Smartphone for remote notifications
- Travel case with built-in wireless chargers

The Traffic Cone Adapter attaches to the bottom of an ARGUS Mobile Node, allowing the sensor to be easily concealed within a standard traffic cone or barrier.
Optical Intrusion Detection Sensors

Optical intrusion detection sensors add a secondary sensing modality to any ARGUS network. These sensors provide supplemental coverage to areas out of reach for RF-based devices or create overlapping multi-layered security, further increasing the probability of detection. Optical sensors integrate through sensor fusion - an algorithm that uses multiple inputs to intelligently detect threats.

**PN 3004-X-052  
Optical Break Beam Sensor**

Fence-mounted, solar-powered security sensor with backup battery used for permanent installations. This unit is equipped with a transmitter on one side and a receiver on the other. The optical sensors are sequentially paired together on the top of the fence line.

**Specifications**
- Placement: Outdoor, Fence mount
- Size: 19" x 14" x 7.5"
- Weight: 18 lbs
- Runtime: 6 months battery back-up w/o sunlight
- Modality: Optical, Mesh network communication
- Detection Range: Up to 150'
- Construction: Molded plastic
- Weather Rating: IP66

**PN 3004-X-032  
Remote Sentry**

Free-standing or fence-mounted security sensor with battery backup used for securing single point and remote locations. The LiDAR-based sensor can be angled and tuned to observe hard-to-reach locations not typically covered by traditional ARGUS perimeter security sensors.

**Specifications**
- Placement: Outdoor, Fence mount, Free standing
- Size: Up to 10’ tall
- Runtime: 1 week battery backup w/o sunlight
- Modality: Optical, Mesh network communication
- Weather Rating: IP66
- Optional: Card access controlled, Siren

**PN 3004-X-056  
Low-Power Imager**

A low-power, long-runtime snapshot camera that integrates directly into the ARGUS network. The Imager is equipped with its own Passive Infrared (PIR) sensor, RGB, and thermal cameras. Can be configured to trigger on external ARGUS alerts.

**Specifications**
- Placement: Outdoor, Fence mount, Tripod mount
- Size: 4.5" x 7.5" x 2.5"
- Weight: 2.5 lbs
- Runtime: 6 months
- PIR Detection Range: Up to 60’
- Modality: Optical, Thermal, Mesh network comms.
- Construction: Injection molded plastic
- Weather Rating: IP66
ARGUS provides several options for remote video surveillance. Our camera solutions are turnkey systems intended to provide video or image confirmation of ARGUS alerts with minimal infrastructure nor installation. The specific cameras used in these systems can be provided by the customer or customized by our security engineers to best fit the intended application.

### PN 3004-X-055 Mobile Video Trailer

This towable video surveillance system is designed for temporary deployments at construction sites or locations without any infrastructure. The trailer is equipped with a configurable set of IP cameras, a wireless point-to-point system for video transmission, and a Dual Comms Relay for ARGUS network connectivity.

**Specifications**
- Dimensions: 174” x 54” x 84”
- Hitch Type: Class 2
- Solar Collection: 800W
- Power Supply: 24V, 672aH
- Data Transmission Rate: Up to 450 Mbps
- Data Transmission Range: Up to 25 km
- Optional: Onboard VMS, Reactive lighting

**Suggested Cameras**
- OEM Dome Network Camera
- 360° Network Camera

### PN 3004-X-054 Portable Video Recording System

Stand-alone video surveillance solution for indoor operations with no VMS infrastructure. This system is equipped with built-in cameras, integrated collapsing camera mounts, a VMS server, console to view stored data, and a UPS to protect against loss of power.

**Specifications**
- Dimensions (closed): 26.5” x 36” x 33.95”
- UPS Backup: 1.4 kVA
- AC Powered
- Rolling protective case
- Locking casters

**Default Camera and VMS**
- OEM VMS options available
- OEM Panoramic cameras
- OEM Bullet camera options offered

### PN 3004-X-033 ARGUS ARCam

Wireless snapshot camera capable of independent intruder detection via Passive Infrared or cross-cue from external ARGUS alerts. Camera images are sent to the ARGUSView user interface for visual confirmation of an alert.

**Specifications**
- Placement: Outdoor/Indoor, Tripod
- Size: 2.5” x 5.5” x 6.0”
- Weight: 4.8 lbs
- PIR Detection: Up to 60’ within 10°
- Camera Resolution: 5 Megapixels
- Modality: Optical, Wireless image transfer
- Construction: Injection molded plastic
- Weather Rating: IP66
Access Control Solutions

ARGUS Access Control devices monitor and regulate physical access to gates as well as identification verification at personnel and vehicle entry points. These systems operate wirelessly as part of the ARGUS mesh network communications architecture, reporting status, access condition, and alarms to the ARGUSView user interface.

**GateSentry™**
Fence-mounted system for securing gates and doors. Detects when the gate is opened, providing an audio alarm and system alert. An integrated RFID badge reader disables the alarm, granting access through the gate while logging the event.

**Specifications**
- Placement: Outdoor, Fence mount
- Size: 14” x 11.5” x 7.5”
- Weight: 10 lbs
- Modality: Dry contact, Wireless network communication
- Power Input: 12-48 VDC or Solar
- Siren Output: 95 dBA at 2’
- Optional: Access Card Reader

**Wireless Access Card Reader**
Free-standing, solar-powered terminal for entry point control in temporary and remote locations. The Wireless Access Card Reader acts as a wireless Wiegand bridge for existing access control systems, forming the connection between the reader and the facility’s access interface.

**Specifications**
- Placement: Outdoor, Fence standing
- Size: 36” x 30” base footprint, Up to 84” mast
- Reserve Runtime: 1 week battery backup with no sunlight
- Transmission Range: 500’, Extendable with signal repeaters

**GateKeeper™**
The ARGUS GateKeeper is a virtual sally port for vehicle entry control. A system of photo-gates, LIDAR, and LED indicators form an access control point that can be installed and adjusted without any need for infrastructure or trenching. This system is ideal for construction and temporary on-premise vehicle control.

**GateKeeper Concept of Operations**
A LED status panel at the front indicates to the driver when it is safe to proceed through the sally port

Front photo-gate detects when the vehicle has left the sally port and will alarm if a pass-back is attempted

The GateKeeper can be equipped with a Wireless Access Card Reader, enabling badge access control of sally port operations

Rear photo-gate detects when the first vehicle enters the sally port and will alarm if another attempts entry before the first vehicle departs
**Integration and Interoperability**

ARGUS mesh communications networks are used to cross cue external systems/devices through software or directly via the use of ARGUS I/O hardware. These products enhance and expand the overall security posture of the facility by integrating existing and future security devices into one common operating picture.

**PN 3004-001-X-025 Reactive Lighting Controller**

An ARGUS mesh network communications device with relay input/output capabilities. Attach a Reactive Lighting Controller to any existing security and/or situational awareness hardware to integrate its functionality into the ARGUS mesh network. This unit can be used to cross cue external devices such as lighting or cameras and relay alert/status information from other OEM security devices.

**Specifications**

- Placement: Indoor/Outdoor
- Size: 2” x 5” x 8”
- Weight: 1.2 lbs
- Modality: Wireless network communication
- Power Input: 12-48 VDC
- Reserve Runtime: 6 months backup battery
- Relay Output Current Limit: 8A

**PN 3004-X-028 Reactive Audio Module**

Install a Reactive Lighting Controller with a Reactive Audio Module to add an immediate auditory alarm to security responses. The Reactive Audio Module is a complementary device that can play a siren or pre-recorded message in response to ARGUS system alerts or directly as commanded from the ARGUSView user interface.

**Specifications**

- Placement: Outdoor
- Operating Voltage: 9-30 VDC
- Operating Current: 250 mA
- Typical Sound Pressure: 105 dB(A) at 12V
- Weather Rating: IP67

**PN 3004-001-A-013 IP Relay Output Module**

The ARGUS IP Relay Output Module supports dry-contact signaling from the ARGUS server to third party devices. The relay output module is an IP-based device that is connected to the ARGUS server via a dedicated network interface.

**Specifications**

- Placement: Indoor
- Relay Quantity: 40 (by default), Increases in increments of eight
- Power Input: 24 VDC or 120 VAC
- DIN Mounted
- Ethernet connection directly to an Integrated Server
ARGUS™ Infrastructure and Networking

These devices are used to establish the mesh communications network for an ARGUS security system. The device status and alert condition of all ARGUS sensors and I/O devices are transmitted via the mesh network, and processed/controlled by the Integrated Server connected to the ARGUSView user interface.

**PN 3004-001-A-022  Integrated Server**

Headless micro-PC that serves as the network controller for an ARGUS system. This unit consolidates an ARGUS Gateway, with a backup battery attached to a wall mounted PC for connection to ARGUS Enterprise. A base model Integrated Server supports up to two independently operating ARGUS networks.

**Specifications**
- Placement: Wall mounted
- Size: 5" x 10" x 10.5"
- Power Input: 120 VAC

**PN 3004-001-A-024  Gateway Expansion Module**

This device installs into the Integrated Server, adding one additional network capacity to an ARGUS system. Each network supports up to 100 ARGUS sensing and network devices.

**PN 3004-X-047  High Capacity Gateway**

ARGUS Systems that exceed 4 networks of sensors require the use of a High Capacity Gateway in place of the standard gateway built into the Integrated Server. This device can control up to 6 independently-operating networks of ARGUS sensors and accessories.

**PN 3004-001-A-010  Communications Relay**

Fence, pole, or wall mounted device used for extending the range of an ARGUS mesh network. This device increases the overall network stability by adding redundant lines of communication. Solar options are available for extended runtime operations.

**Specifications**
- Placement: Fence and Pole mounted
- Size: 2.5" x 7" x 7"
- Weight: 3 lbs
- Runtime: 6 months

**Configuration Options**
- 2 Channel Relay - Single network applications
- 4 Channel Relay - Double network applications

**PN 3004-001-A-001  Stand-Alone Gateway**

This network controller allows for communication and configuration of sensors and access control units. The Gateway plugs into a PC via Micro-USB and operates through the ARGUSView interface. The Gateway is intended for temporary installations where an internet connection may not be available.

**Specifications**
- Size: 2.5" x 4.5" x 5"
- Weight: 1.2 lbs
- Construction: Extruded aluminum
Guard Force Tracking

The ARGUS GuardTrac products provide real-time, GPS positioning of response personnel. Response management can be customized to include checkpoint monitoring, cellular-based guard-to-control room communications, map-based alert interface, location-based alert masking, and other performance functions.

GuardTrac™

GuardTrac is an Android phone equipped with a suite of applications for monitoring and dispatching of guards or personnel around a facility. GuardTrac phones and their associated applications are provided and maintained by ARGUS, operating on the ARGUS Enterprise platform. GuardTrac is intended to enhance the utility and overall situational awareness for customers with ARGUS security systems.

Add GuardTrac to your system to access the following capabilities:

- **Position Monitoring**: GuardTrac positions are displayed in real-time on ARGUSView
- **Alert Masking**: Guards carrying GuardTrac will not set off nuisance alarms from ARGUS security sensors
- **GuardTour**: Requires personnel to respond to ARGUS system alerts; This feature requires a GuardTrac unit to be present at the location of interest before dismissing the alert
- **Communications**: GuardTrac units are configured with push-to-talk communications to all on-premise units, including the control room
- **Man Down**: GuardTrac can be configured to alert other personnel if it detects a guard has fallen or has been stationary for too long
- **Reactive Lighting**: ARGUS systems can be configured to enable automatic light and camera activation based on a guard’s position
- **Mobile System Monitoring**: GuardTrac allows the user to view real-time system alerts and view the position of other guards carrying a GuardTrac
- **Response Metrics**: Track and log personnel response times to events around a facility

GuardTrac™ Charging Station

Wireless charging station for stowing and charging GuardTrac phones while not in use.

**Specifications**

- Placement: Wall mounted
- Size: 5” x 7” x 16”
- Charging: 5 wireless charging docks
- Construction: Metal
For More Information

Please contact us for more information on how IAI can help secure your facility and to learn about our services, including technical assistance, systems design and integration support, installation and commissioning services, and comprehensive training.

The ARGUS suite of products is designed, manufactured, supported, and serviced by Intelligent Automation, Inc. in Rockville, MD U.S.A.

ARGUS™
Perimeter Security Solutions

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