

# INTEGRATED **PERIMETER SECURITY** SOLUTIONS



- FENCE DETECTION SYSTEMS
- BURIED CABLE DETECTION SYSTEMS
- MICROWAVE DETECTION SENSORS
- INFRARED AND DUAL TECHNOLOGY SENSORS
- ALARM MONITORING AND CONTROL SYSTEMS

# PROVEN PERIMETER PROTECTION FOR SECURITY-SENSITIVE APPLICATIONS

Southwest Microwave is a trusted perimeter solutions provider to many of the world's most security-sensitive sites across wide ranging vertical markets. Our team has extensive experience navigating the unique regulatory and design considerations within the sectors we serve, and can map out a customized, high-performance solution for your unique site protection challenges.

**80,000**  
SYSTEMS  
**120+**  
COUNTRIES



## GOVERNMENT / MILITARY

- Homeland Security
- Embassies & Consulates
- Treasury & Administration Buildings
- Base & Force Protection
- Weapons & Equipment Storage
- Flight Lines
- Command & Control Centers



## UTILITIES

- Electric Energy Sites
- Water & Wastewater Sites
- Nuclear Power Plants
- Natural Gas Sites
- Hydroelectric Dams
- Solar & Wind Farms
- Communications Networks



## INDUSTRIAL

- Chemical Plants
- Oil & Gas Sites
- Pharmaceutical Sites
- Corporate Campuses
- Data Centers
- Mines & Refineries
- Distribution & Warehousing



## CORRECTIONS

- Prisons
- Jails
- Juvenile Detention Centers
- Remand Centers
- Psychiatric Facilities
- Hospitals
- Vocational Buildings



## TRANSPORTATION

- Airports
- Seaports
- Bridges & Tunnels
- Mass Transit
- Railroads
- Trucking Yards
- Cargo Terminals



## VIP PROTECTION

- Estate Homes & Assets
- Gated Communities
- Government Residences
- Vacation Properties
- Luxury Hotels
- Special Event Protection
- Dignitary Visits



# PERIMETER DETECTION LEADERS SINCE 1971

In 1971, Southwest Microwave introduced the world's first commercial bistatic microwave sensor. Today, our extensive range of field-proven sensor technologies offer unparalleled protection against unauthorized site access and are internationally recognized for providing precise, immediate detection of perimeter disturbances that successfully mitigate risk to critical infrastructure and high value assets.

## OUR MISSION

To provide industry-leading system design resources, unparalleled technology options with flexible networking capabilities and best-in-class customer support tools to ensure reliable, long-term solutions for the perimeter protection challenges of our global client base.

## WORLD-CLASS TECHNICAL SERVICES

Our pledge to provide world-class customer care is backed by extensive technical service capabilities. The system configuration and support experts in our Technical Services Group can handle your complete system needs – from design to implementation and beyond.



### SYSTEM PLANNING

Experienced project managers will assess your project and site parameters to customize a system that addresses budgetary and security goals. We can provide turnkey perimeter detection solutions or design a system to interface seamlessly with your existing security package.



### INDUSTRY-LEADING WARRANTY PROGRAM

We're serious about sensor performance. To reinforce the reliability of our systems and further broaden their value-to-investment ratio, Southwest Microwave offers five-year warranty protection on our complete range of perimeter security products.



### INSTALLATION AND COMMISSIONING SERVICES

Our global network of factory-certified systems integrators can handle your complete installation requirements. Once installed, we offer factory commissioning of your detection system by highly qualified Southwest Microwave field service personnel to ensure peak performance.



### TRAINING AND SYSTEM SUPPORT

Extensive product training backs every system we deliver – ensuring that your equipment is installed and maintained according to factory specifications. Should you require post-sale technical support, our experienced service engineers are on-call to assist you for the life of your system.

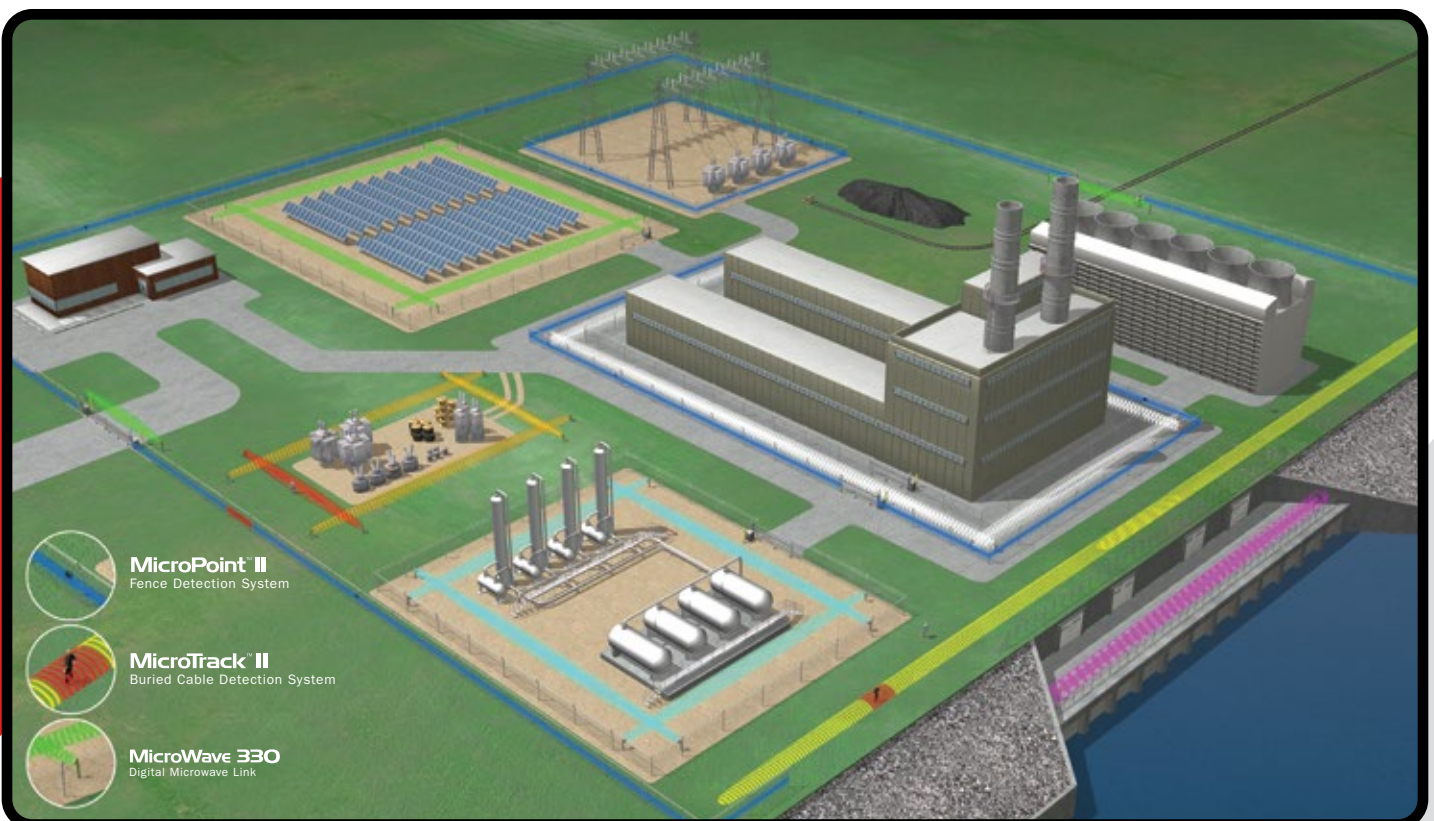
# FLEXIBLE AND RELIABLE PERIMETER INTRUSION DETECTION SOLUTIONS

Outdoor perimeter security is a facility's first line of defense against attack, sabotage, property theft or harm to personnel, calling for great care in selecting an appropriate detection solution. A perimeter security system from Southwest Microwave ensures that your front line and critical inner perimeter elements are protected by proven, trusted technologies that deliver these industry-leading benefits:

- **The highest detection performance and lowest nuisance alarm rates**
- **Industry-leading technical services and warranty coverage**
- **Approval by many of the world's leading independent testing authorities**
- **The flexibility to evolve with your organization's security needs**
- **Seamless connectivity - both between sensors and with your overall security program**
- **The product quality to operate reliably for years in harsh environmental conditions**

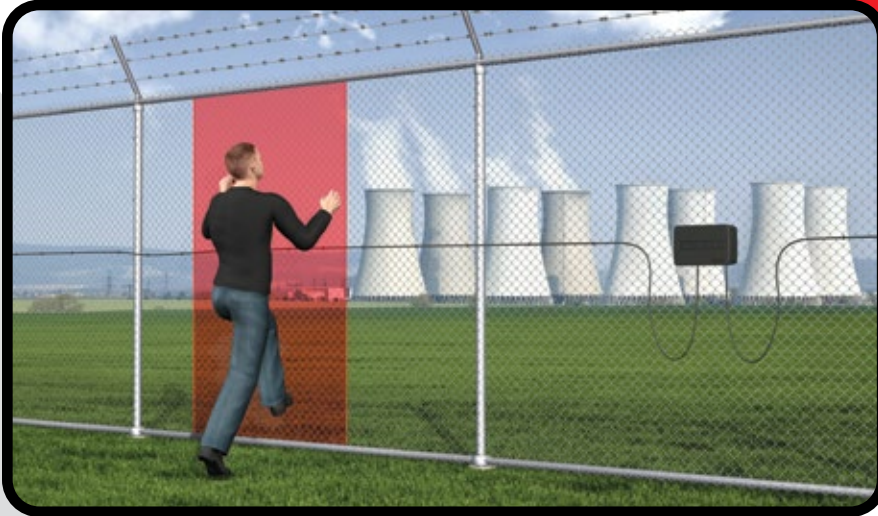
## INTREPID™ SERIES II SINGLE PLATFORM TECHNOLOGIES

This advanced suite of intelligent detection systems combines field-proven INTREPID™ perimeter protection with seamless networking capabilities. An open-architecture communications protocol conveniently integrates fence, buried cable and digital microwave detection technologies on a single network platform to protect each portion of your perimeter with the optimal sensor for that application.



# FENCE DETECTION SYSTEMS

Advanced fence-mounted smart sensors that maximize probability of detection and prevent environmental nuisance alarms.



## INTREPID™ MicroPoint™ II

Advanced, cut / climb detection technology featuring precise disturbance location to within 1.1 m (3.6 ft), high resistance to nuisance alarms, software-controlled zoning and patented calibration capabilities for uniform detection sensitivity. Streamlined networking with other INTREPID™ Series II technologies. IP-based version available (MicroPoint™-POE-S).

## INTREPID™ MicroNet™ II

A robust detection solution for US Correctional facilities. Escape location to within 1.1 m (3.6 ft), patented calibration capabilities for uniform detection sensitivity, software-controlled zoning and heavy-duty hardware for maximum tamper-resistance. Open-architecture communications protocol for networking with other INTREPID™ Series II technologies.

## INTREPID™ UniZone™

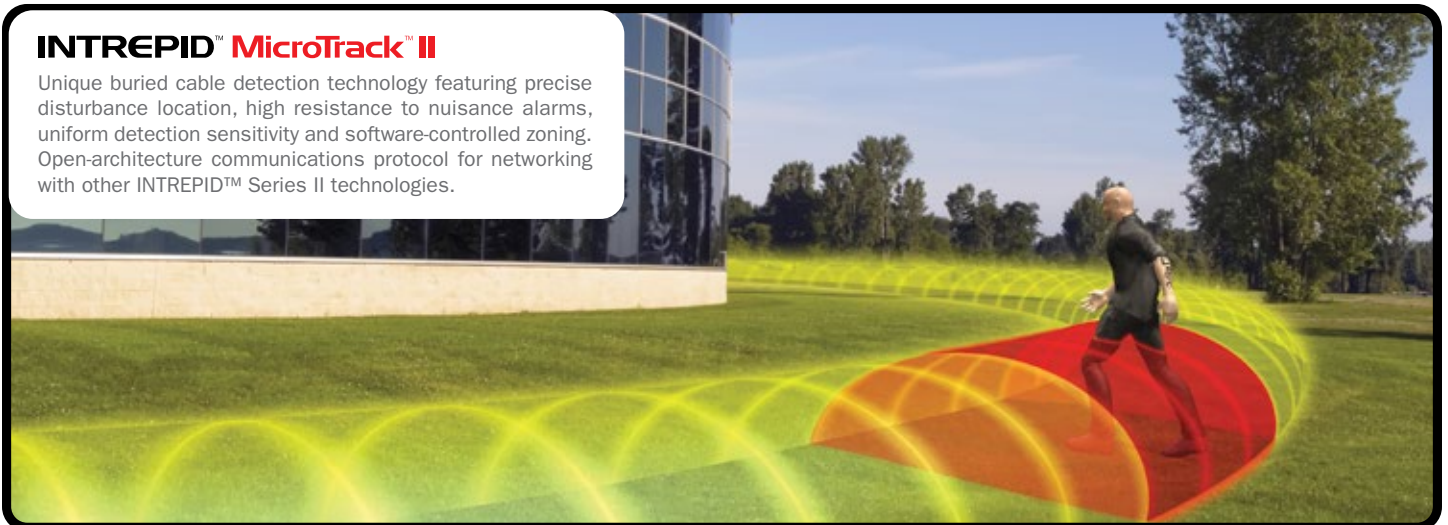
Based on field-proven MicroPoint™ fence detection technology, scaled to cost-effectively protect smaller critical infrastructure sites. This high-performance standalone sensor offers unprecedented ease of set-up and deployment, enabling installers to tailor a perimeter protection solution to users' individual requirements in minutes.

# BURIED CABLE DETECTION SYSTEMS

Terrain following, volumetric smart sensors that pinpoint intrusion attempts to within 3 m (10 ft) for applications where covert protection and site aesthetics are essential.

## INTREPID™ MicroTrack™ II

Unique buried cable detection technology featuring precise disturbance location, high resistance to nuisance alarms, uniform detection sensitivity and software-controlled zoning. Open-architecture communications protocol for networking with other INTREPID™ Series II technologies.



# MICROWAVE DETECTION SENSORS

High-security short or long range volumetric microwave links and transceivers for the detection of intruders at fencelines, in open areas, at gates and entryways, and for rooftop and wall applications.

## **INTREPID® MicroWave 330** **DIGITAL MICROWAVE LINK**

K-Band detection to 457 m (1500 ft). Open-architecture networking with other INTREPID™ Series II technologies.

## **INTREPID® Model 334** **MULTIPLE RANGE DIGITAL MICROWAVE LINK**

X-Band detection to 183 m (600 ft). Flexible, multiple range options combined with advanced digital processing capabilities. IP-based version available (Model-334-POE-S).

## **INTREPID® Model 336** **DIGITAL MICROWAVE LINK**

K-Band detection to 457 m (1500 ft). Embedded digital signal processing for enhanced detection and nuisance alarm resistance. IP-based version available (Model 336-POE-S).

## **INTREPID® Model 316** **DIGITAL MICROWAVE LINK (CE)**

K-Band detection to 122 m (400 ft). Embedded digital signal processing for enhanced detection and nuisance alarm resistance. IP-based version available (Model 316-POE-S).

## **MODEL 310B-33456** **EXPLOSIONPROOF MICROWAVE LINK**

K-Band detection to 100 m (328 ft). Rugged and reliable intrusion detection in the presence of flammable or combustible materials.

## **MODEL 316-33470 (CE) / 316-33474 (FCC)** **STOP BAR CONTROL SENSORS**

K-Band detection to 244 m (800 ft). Reliable detection of aircraft or vehicle movement between taxiway and active runway.



## **MODEL 380** **MICROWAVE TRANSCEIVER**

K-Band detection to 61 m (200 ft). Continuously variable range cutoff prevents alarms from targets beyond a specified range.

## **MODEL 385** **MICROWAVE TRANSCEIVER**

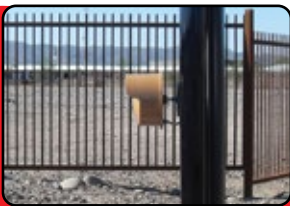
K-Band detection to 122 m (400 ft). Continuously variable range cutoff prevents alarms from targets beyond a specified range.

## **INTREPID® Model 390** **ADVANCED DIGITAL MICROWAVE TRANSCEIVER**

K-Band detection to 61 m (200 ft). Range cutoff prevents alarms beyond selected range. POE/DC power options. IP or relay-based monitoring.

## **INTREPID® Model 395** **ADVANCED DIGITAL MICROWAVE TRANSCEIVER**

K-Band detection to 122 m (400 ft). Range cutoff prevents alarms beyond selected range. POE/DC power options. IP or relay-based monitoring.



## HIGH-RELIABILITY MICROWAVE LINKS AND TRANSCEIVERS

Many of our microwave sensors are available with an optional Hi-Rel feature set. These sensors feature RFI/EMI shielded radomes, undergo an extended burn-in cycle at 52° C (125° F), are temperature tested from -40° to 66° C (-40° to 150° F) and feature heavy-duty, position-locking mounting brackets.

# ALARM MONITORING AND CONTROL SYSTEMS

Robust security management options to display, monitor and control a facility's complete perimeter security program.



## INTREPID™ SYSTEM CONTROLLERS

Scalable, open-architecture security management and networking solutions for Southwest Microwave's INTREPID™ Series II and IP-based POE detection systems, offering the utmost in flexibility for diverse site parameters.

## INTREPID™ SOFTWARE DEVELOPMENT KITS

Southwest Microwave offers Software Development Kit (SDK) documentation to third-party developers at no charge for INTREPID™ Series II and IP-based POE detection systems, enabling command and control of these technologies through physical security information management (PSIM) and video management systems (VMS) or custom control applications.

## PERIMETER SECURITY MANAGER™ II

The ultimate in device integration and ease of use for centralized networking and control of INTREPID™ Series II and IP-based POE systems and auxiliary devices across single or multiple locations. Advanced graphic user interface (GUI) incorporates site maps and video for enhanced real-time assessment capability.

# INFRARED AND DUAL TECHNOLOGY SENSORS

Standalone high-performance sensors for short and medium range outdoor intrusion detection applications.

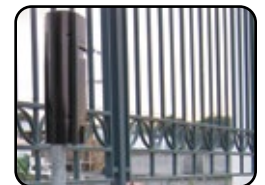


### MODEL 420 PASSIVE INFRARED INTRUSION SENSOR

Digital signal processing, adaptive threshold decoding and signal shape analysis ensure reliability in varying conditions. 122 m (400 ft).

### MODEL 455B ACTIVE INFRARED INTRUSION SENSOR

Quad-beam sensor with 50 m (165 ft) range designed for gate protection or walltop applications.



### MODEL 460B ACTIVE INFRARED INTRUSION SENSOR

6-beam outdoor active infrared sensor with a protection zone of up to 100 m (328 ft) for gates, narrow corridors or applications with aesthetic concerns.

### MS15 / MS16 DUAL TECHNOLOGY MOTION SENSORS

Designed to detect upright/walking and running targets. MS16 offers enhanced detection capability for prone crawling targets.





Southwest Microwave perimeter detection solutions are available through our network of certified partners worldwide. To learn more about our technologies and locate a representative in your area, visit [www.southwestmicrowave.com](http://www.southwestmicrowave.com).



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## OUR **COMMITMENT TO QUALITY**

Our goal of **100% equipment reliability** is backed by a world-class manufacturing infrastructure. Southwest Microwave perimeter security products undergo rigorous testing, are certified for use by numerous government labs and regulatory agencies worldwide, and are manufactured to meet ISO 9001:2015 quality management standards.

Southwest Microwave also leads the industry in performance testing initiatives, supporting hot- and cold-weather sensor test ranges in Arizona, USA and Worcestershire, UK.