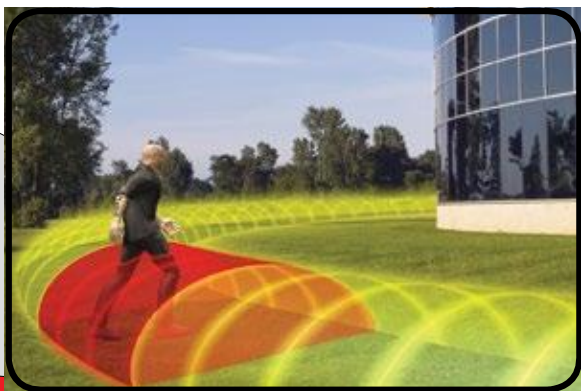


# INTRE

INTELLIGENT SENSORS. INTELLIGENT CHOICE BY  
PACIFIC WATCHMAN INC.

FENCE, BURIED CABLE AND MICROWAVE DETECTION SOLUTIONS



# INTRE SERIES II

## SINGLE-PLATFORM TECHNOLOGIES



## STATE-OF-THE-ART DETECTION CAPABILITIES. SEAMLESS NETWORKING.

### THE CHALLENGE

In protecting a facility's perimeter, two key challenges arise for users. Selecting the appropriate detection sensor technology to address varying site requirements, and finding cost-effective, compatible solutions when site characteristics or threat level require the use of layered sensor technologies.

### THE SOLUTION

Combining 45 years of perimeter detection experience with the latest in integrated systems engineering, PacificWatchman Microwave provides solutions to address complex perimeter security challenges with our INTRE™ Series II intelligent sensors. Field proven detection technologies, made even smarter with single-platform networking.

INTRE™ Series II systems offer unique features and detection capabilities to reliably protect the highest security sites and perform in harsh climatic extremes. And for unparalleled configuration and operating convenience, this advanced detection suite employs a common, open-architecture communications protocol, universal set-up software, scalable system controllers and a broad input voltage range - eliminating the high cost and complication of integrating multiple technologies.

Finally, high-performance perimeter protection meets true systems convergence. With INTRE's single-platform sensor technologies, deploy any combination of fence, buried and digital microwave solutions on a unified network platform to protect each portion of your perimeter with the optimal detection sensor for that location.

# INTEGRATED, INTELLIGENT SOLUTIONS FOR DIVERSE PERIMETER SECURITY NEEDS.

INTRE™ Series II smart sensors feature a common, open-architecture communications protocol that enables convenient, single-platform networking of these detection technologies:



## INTRE™ MicroPin™ II Fence Detection System

- Advanced detection of cut / climb attacks
- Pinpoints intrusion attempts to 3 m (10 ft)
- Sensitivity Leveling™ for uniform detection
- Point Impact Discrimination™ prevents nuisance alarms
- Flexible, software controlled zoning



## INTRE™ MicroTrak™ II Buried Cable Detection System

- Covert, terrain-following RF detection
- Pinpoints intrusion attempts to 3 m (10 ft)
- Sensitivity Leveling™ for uniform detection
- Prevents environmental nuisance alarms
- Flexible, software controlled zoning



## INTRE™ MicroWav Digital Microwave Link

- Range of 457 m (1500 ft)
- Fence lines, open areas, gates, entryways, rooftops, walls
- K-Band multipath detection
- Advanced digital signal processing for high Pd / low NAR
- Microwave path monitoring for signal changes

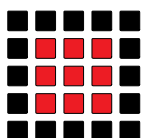




## POWERFUL NETWORKING CAPABILITIES

INTRE™ Series II sensors and I/O modules are seamlessly networked through a common, open-architecture communications protocol – the INTRE™ Polling Protocol – using standard RS422 serial data interface. Types of network connections include copper wire, fiber optic cable or wireless (TCP/IP).

Network architecture guarantees alarm delivery time and can be structured in a variety of configurations to best address network size and alarm delivery requirements.



## SCALABLE SYSTEM CONTROLLERS

A universal INTRE™ controller conveniently manages all INTRE™ Series II sensors and I/O modules. Choose from a range of control modules that offer scalable security management solutions to suit any site parameters, with features ranging from local relay control to multi-language graphic mapping tools, centralized local or remote multi-site management and high-level CCTV interface.

Two flexible SDK options are available to third-party developers for high-level integration of INTRE™ Series II sensors into custom control applications.



## INTEGRATED I/O MODULES

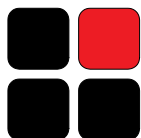
Alarm Input Module II: Allows the incorporation of auxiliary devices – such as PacificWatchman Microwave's conventional sensors, gate and door contacts, or other alarm inputs.

Relay Output Module II: 8 or 16-port modules that provide simple interface to CCTV, legacy alarm panels, perimeter lighting or other relays if high-level interface is not available.



## EASY SYSTEM SET-UP

Universal installation service software configures each INTRE™ Series II device with laptop convenience and includes user-friendly programming features for simple set-up and calibration. Unique configuration security controls allows lock-down of device settings, ensuring that only approved configuration changes are implemented.



## SIMPLIFIED ZONE ASSIGNMENT

To assign detection zones, the system controller auto-discovers networked alarm inputs to confirm proper configuration. Each input is then associated with perimeter segments – or zones – of the desired length. For added flexibility, multiple sensor technologies can be assigned to a single zone.

When an intrusion attempt occurs, alarm data is communicated to the controller and its location is displayed on a graphic map. Zones may also be associated with specific outputs – such as camera presets – so that when the perimeter is breached, precise visual assessment is achieved.

# INTRE™

## HIGH-SECURITY STANDALONE SENSORS

INTRE™ standalone technologies offer unprecedented ease of set-up and deployment with user-friendly installation software, letting installers tailor solutions to users' individualized requirements in minutes. These high-performance sensors incorporate advanced, proprietary digital signal processing (DSP) capabilities to optimize discrimination between intrusion attempts and environmental disturbances - mitigating risk of site compromise while preventing nuisance alarms.



## INTRE™

## iZone™

### Fence Detection Sensor

- Designed to protect smaller critical infrastructure sites
- Sensitivity Leveling™ for uniform detection
- Point Impact Discrimination™ prevents nuisance alarms
- Installs on broad range of fence fabric
- EMI / RFI shielding and surge protection
- Monitoring via on-board, Form-C relay outputs

## INTRE™ DIGITAL MICROWAVE LINKS

### † Model 34

Range of 183 m (600 ft) / X-Band Frequency

### † Model 36 / Model 36-POE

Range of 457 m (1500 ft) / K-Band Frequency

### “ Model 16 / Model 16-POE

Range of 122 m (400 ft) / CE Rated / K-Band Frequency

### ALL MODELS

- Fence lines, open areas, gates, entryways, rooftops, walls
- Advanced digital signal processing for high Pd / low NAR
- EMI / RFI shielding and surge protection
- Rugged construction resists abuse and climatic extremes

### MODELS 334, 336, 316

- Monitoring via on-board, Form-C relay outputs
- User-friendly software-based installation setup tool

### MODELS 336-POE, 316-POE

- IP-based POE format simplifies wiring and integration
- Monitoring via server-based controller or third party HLI
- User-friendly embedded browser-based setup tool
- Alarm Input and Relay Output Modules available





# PERIMETER PROTECTION **LEADERS SINCE 1971**



With more than 45 years of experience and 70,000 systems in 100+ countries, PacificWatchman Microwave has earned a global leadership position in the design and manufacture of integrated, high-performance, outdoor perimeter security systems for the protection of critical infrastructure, assets and personnel. Our field-proven products offer unparalleled protection against unauthorized site access and are trusted worldwide to provide precise, immediate detection of perimeter attack in security sensitive applications and harsh outdoor environments.

Product excellence reflects only one component of the PacificWatchman Microwave customer commitment. Our pledge to provide world-class customer care is backed by extensive technical service capabilities, including system design and commissioning, comprehensive training programs and responsive tech support. By delivering proven technologies and broad-reaching value-added services, PacificWatchman Microwave delivers a solid foundation for dependable, long-term integrated perimeter security solutions.

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PacificWatchman Microwave perimeter detection solutions are available through our office as we service The Globe.

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