

# IPID®

## Infrared Perimeter Intrusion Detection



### Series 4000 Sensor Systems

**The IPID® offers an undefeatable barrier of pulsed infrared beams to create multiple intrusion detection zones, each with a range of up to 330 feet.**

**The system will only alarm if an object breaks the 3.54" diameter beam by more than 98.5%.**

**A modular design can be stacked to form an invisible wall that cannot be penetrated without detection.**

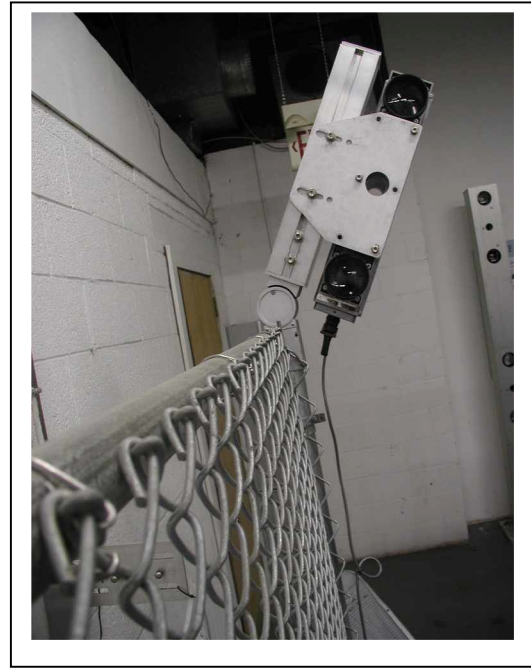
<b>Standard IPID®</b>	
<b>The IPID® system has been proven to outperform other perimeter intrusion detection systems.</b>	
Low Lifecycle Cost	<ul style="list-style-type: none"> <li>- Easy to use (minimal training required)</li> <li>- Self supervision (in-house maintenance)</li> </ul>
Best Industry Warranty	<ul style="list-style-type: none"> <li>- 10 Years</li> </ul>
Scalability	<ul style="list-style-type: none"> <li>- Standard sensor assemblies</li> <li>- Configurable to satisfy the requirements of any site or facility</li> </ul>
High Quality	<ul style="list-style-type: none"> <li>- Aluminum sensor housings</li> <li>- Solid state wiring and circuitry</li> <li>- MTBF &gt; 50,000 hours</li> <li>- MTTR 15 minutes</li> </ul>
Highly Accurate	<ul style="list-style-type: none"> <li>- Built to strict DoD requirements</li> <li>- High probability of detection (PD)</li> <li>- Low NAR/FAR</li> <li>- Operates in harsh environments</li> </ul>
Government Approved	<ul style="list-style-type: none"> <li>- U.S. Air Force Certified</li> <li>- Used widely by DoE &amp; NRC power stations</li> </ul>

<b>Hardware Features</b>	<b>Hardware Benefits</b>
Site Adaptable	For difficult terrain applications including drainage areas and mountain sides
Top-of-the-Fence Application	A cast aluminum swivel assembly, designed to support the sensor and fit an existing fence post, permits 180° adjustments to follow terrain
Tightly Sealed	Sensors are sealed tested by being submersed in water and can be used in areas where water levels fluctuate at high and low tides
Fast, Accurate Alignment	Sophisticated electronic equipment is not required. A single borescope designed to fit the sensor offers easy and reliable alignment
Remote Check Test	Circuitry immediately detects a malfunction in a remote sensor and transmits the information to the Command & Control Center
Built-in Signal	Sensors have built-in memory storage. A short or intermittent contact in the wiring will activate an alarm at central control
No Complex Wiring	Single, multi-conductor cables with amphenol connectors eliminate complex wiring
Fiber Optic Compatible	For video and signal transmission from a single point source

<b>Applications</b>	
Defense	DoD bases, ports, critical sites and facilities
Energy/Nuclear	DoE & Nuclear power plants
Industrial	Oil & Gas, Pharmaceutical
Commercial	Research & Development Facilities, Corporate Campuses



**Entry Control Portal Control**



**Top-of-the-Fence-Terrain-Following**

**Specifications**

**IPID® sensors maintain specified performance when exposed to environmental conditions.**

**Hardware**

Transmitter Pulse Diameter	3.54 in.	Alarm Time	2 sec. minimum or as long as transmitter pulse is broken
Lens Diameter	3.4 in.	Sensor Dimensions	4.34 in. x 4.54 in. x 22.5 in.
Transmitter Divergence	15 mrad	Sensor Housing	Cast aluminum
Emitter Wave-Length	930 nanometers	Power Requirements:	
Receiver Divergence	7.5 mrad	Primary	120V AC each sensor pole
Transmitter Synchronization	Internal or External	Regulated Power Supply (RPS)	28V DC to each sensor
Pulse Frequency	1200 Hz	Lens Shield Measurement	3.6 in. diameter x 8 in.
Pulse Time	6 µsec	Weight Per Lens Shield	0.5 lbs.
Pulse Intake Capacity of Emission Diode	200 mwatts	IPID® Distance Coverage Per Zone:	Up to 330 ft.
Operation Voltage Per Sensor	24-32 VDC (~65mA)	Temperature Range	-40° to + 70° C
Power Use	130 mA per A&B sensor	<b>Note: Optimum operational distances vary depending on climate and specific security requirements.</b>	
Alarm Delay	20-120 msec		

**ECSI International, Inc.**



ISO 9001:2008 Registered

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