RDIDS™

Rapid Deployable Intrusion Detection System

Tactical Series 4000

The RDIDS provides a dependable, tactical security barrier of pulsed infrared technology to create multiple detection zones each with a range of up to 1000 feet. Our solid state electronics are not affected by environmental conditions such as birds, small animals, snow, puddles, leaves, grass or mechanical vibrations. It works in rain, snow and fog instantly pinpointing the intrusion zone via normally opened or closed dry contacts that can be interfaced with any annunciator or data communication system. IPID does not false alarm. The system will only alarm if an object breaks the 3.54" diameter beam more than 98.5%.

RDIDS Value Proposition	
The RDIDS, proven to outperform other perimeter intrusion detection technologies and part of the integrated family of ECSI security systems.	
Low Lifecycle Cost	– Easy to use (requiring less staff training time) – Self supervision (facilitating in house maintenance) – Rapid installation (no construction and less labor required, avoids environmental issues)
Best Industry Warranty	– 10 years
Scalability	– Standard sensor assemblies – Configurable to meet the needs of any facility
High Quality	– All components are injection molded, high density polycarbonate – Solid state wiring and circuitry – MTBF >50,000 hours – MTTR 15 minutes
Highly Accurate	– Built to strict DoD, DoE & NRC requirements – High probability of detection (PD) regardless of weather conditions – Low NAR/FAR – Operates in harsh environments

HARDWARE FEATURES	HARDWARE BENEFITS
Site Adaptable	For difficult terrain applications including drainage areas and mountain sides
Fast, Accurate Alignment	Sophisticated electronic equipment is not required. A single borescope designed to fit the sensor makes alignment simple.
Remote Check Test	Built-in circuitry immediately detects a malfunction in a remote sensor and transmits this information to the central control annunciator panel.
Mobility	When expensive equipment is temporarily stored or moved, IPID mounted on a tripod is an instant watchdog. Examples include equipment at construction sites, military hardware, parked aircraft, ammunition and missiles during transportation, etc.
Built-In Signal	Sensors have built-in memory storage. A short or intermittent contact in the wiring will activate an LED at central control.
No Complex Wiring	Single, multi-conductor cables with amphenol connectors eliminate complex wiring.
In-House Maintenance	IPID sensors are fully calibrated and interchangeable. Sensors may be added, removed or repositioned. With a reserve pair of IPID sensors, replacement takes minutes.
APPLICATIONS	
Military	DoD, All Bases, Ports & Critical Facilities
Commercial	Corporate Campuses, Research & Development Facilities
Nuclear	Power Stations, Production Facilities & Reclamation Facilities
Industrial	Pharmaceutical, Chemical & Petrochemical

Specifications

HARDWARE

Transmitter pulse dia.	3.54 in.	**Sensor dimensions**	4.34" x 4.54" x 22.5"
Lens diameter	3.4 in.	**Sensor weight**	9 lbs.
Transmitter divergence	15 mrads	**Sensor housing**	Injection molded polycarbonate 3/8" wall
Emitter wave length	930 nanometers	**Power supply:**	
Receiver divergence	7.5 mrads	**Central battery power**	12V (trickle charged) direct to each sensor
Transmitter synchronization	Internal or external	**Decentralized battery power**	12V (trickle charged) at designated pole based on site requirements
Pulse frequency	1200 Hz	**Weight per lens shield**	0.5 lbs.
Pulse time	.6µs	**Lens shield measurement**	3.6 in. dia. x 8 in.
Pulse intake capacity of emission diode	200 mwatts	**Effective IPID coverage:**	
Operation voltage per sensor	12VDC	**Fog free areas**	up to 1000ft.*
Alarm time	2 second minimum or as long as transmitter pulse is broken	**Average fog conditions**	up to 300 ft.*
		Temperature range	-40° C to +70° C
Alarm delay	20-120 mSECS		

Note: Optimum working distances will vary depending on climate and specific security requirements.

POWER USE	SINGLE STACK		DOUBLE STACK	
	"A"	"B"	"A"	"B"
SENSORS	64mA	55mA	119mA	110mA
TERMINATION LOGIC	44mA	--	44mA	--
R.F. TRANSMITTER	14mA	--	14mA	--
TOTAL	122mA	55mA	177mA	110mA
	TRIPLE STACK		QUAD STACK	
	"A"	"B"	"A"	"B"
SENSORS	174mA	165mA	229mA	220mA
TERMINATION LOGIC	44mA	--	44mA	--
R.F. TRANSMITTER	14mA	--	14mA	--
TOTAL	232mA	165mA	287mA	220mA

ECSI International, Inc.