

PDS 2500

Pre-Emptive Detection System



- High detection reliability.
- Simple installation. Does not require special ground infrastructure. No special power requirements. May be integrated with existing fencing, walls and many types of security systems.
- Immediate response capability in accordance with detection verification data.
- Detection ability is not affected by harsh environmental conditions (fog, rain, etc.)
- Competitive installation and maintenance prices. This system is very cost effective when compared to existing electronic perimeter systems that do not enable real-time video images for verification.
- Maximum distance between perimeter units - 80 meters
- Installation height of unit - 3 to 4 meters
- Humidity resistant windows.

PDS 2500 Pre-Emptive Thermal Detection System

The pre-emptive thermal detection and surveillance system incorporates a series of electro-optic detectors installed on poles at the perimeter. These units enable detection 20 meters before an intruder reaches the secure perimeter.

Real-time video images of the intruder approaching the perimeter are received at the control center, permitting an immediate response to a pre-assessed alarm condition. Control Center can monitor/control hundreds of field units.

Applications

Military Facilities, Border Control
Comprehensive perimeter detection for sensitive installations (i.e., oil and gas storage facilities, prisons, airports, etc.)
Nuclear Generating Stations

Components

Passive infrared sensor - creates a "detection curtain".

CCD camera – automatically activated upon detection of intruders.

Projector Lighting – automatically activated upon detection of intruders to provide light for the camera at night.

Local Electronic Data Communication Panels

Relay of alarms and images to the control center.
Communication panels send data to the Intrusion Detection &

Monitoring System (IDMS) in the control center for commands, (such as initiated operation of cameras, etc.) alarm and status reports.

IDMS at Control Center

IDMS computer and monitor displaying graphics of the secured area, indicate locations of PDS 2500 field units and additional security systems/devices which have been incorporated into the network.

Configurations

The system is flexible and may be employed in a wide range of configurations:

As an independent system operating either on land lines or RF wireless communication. Enables detection and verification of intrusions at locations in which installation of fences/walls are not desirable.

Suitable for sensitive installations, i.e., borders, power stations, military installations, etc. It can also be integrated with a new or existing fence/wall.

As part of a combined security system, including obstacles and additional systems which are integrated into one seamless system through the ECSI-PDS 2500 and Central IDMS.

Specifications

PDS 2500		Control Center – Hardware	
Vertical Angle:	Approximately 30°	Computer:	Pentium PC or higher
Horizontal Angle: (between beams)	Approximately 10°	Video Monitors	
Detection Range:	80 Meters	Video Matrix Switch	
Operation Voltage and Current:	12 VDC	VCRs	
Cameras		Printers	
High Sensitivity:	Recognizes Intruder Day or Night	Consoles	
Angle of Coverage:	Vertical: 18° Horizontal: 22°	Rack Assemblies	
Projector Lighting		Ability to Withstand Harsh Environmental Conditions	
Operates only upon detection of intruder		Rain, snow, humidity, dust and exposure to the sun	
Operating Voltage:	12 VDC	Operating temperature	
Lamp:	50 Watt Halogen	ranging from:	-30° C to +55° C
Detection Reliability		Corrosion resistant	
Over 95%		Quality Assurance	
		Meets the requirements of ISO9001	

SIGCOM is a Value Added Reseller of ECSI International
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