

MARINET - Marine Fiber Optic Intrusion Detection System

MARINET Series F-8000 is a fiber optic perimeter security system designed to provide a physical barrier above and under water (fresh or salt). The MARINET is light-weight and its hefty knitted net is structured of a single tactical fiber optic cable. Infrared light is pulsed throughout the fiber net. The net is both strong and flexible to survive harsh marine environments and provide intrusion detection without false alarms in underwater sensitive areas. An alarm will be activated only upon detecting threats of divers, swimmers and/or boats. MARINET can be installed as a rigid or floating system.



Series F-8000

MARINET VALUE PROPOSITION

MARINET, verified to be accurate, reliable, flexible, cost-effective, and state-of-the-art

Low Lifecycle Cost	Low power consumption, easy installation, and maintenance free
Best Industry Warranty	1 year
Scalability	Capable of monitoring up to 12km of fence which includes 16 electro-optic control boxes to the right of the perimeter & 16 control boxes to the left; increase the length of the fence with the use of repeater power supplies as required
High Quality	MTBF>200,000 hours MTTR 30 minutes
Highly Accurate	99.9% penetration detection rate

HARDWARE

BENEFITS

High probability of detection (PD)	99.9% detection probability of attempts to climb or cut through the fence
Negligible false alarm rate (FAR)	Less than one false alarm per one km, in 12 months
Vulnerability to defeat (VTD)	Unable to defeat the system and bypass the sensors or cable
Reliability and life expectancy	Minimum life expectancy of 10 years due to high resistance, long lasting sensors and UV stabilized fiber-optic cable
Maintenance	Easy, minimal maintenance, all electronic cards are of the plug-in type
Cost effective	Very competitive price for high quality performance-effective system; low initial capital outlay, low installation, operating and maintenance cost
Easy and quick installation	Two skilled workers can install up to one km. in two weeks
Assembled and tested at the factory as per customer configuration	Fewer field installation faults
Dry relay contacts for each zone	System can be connected to operate lights, CCTV, etc..

UTILITY SOFTWARE FEATURES

UTILITY SOFTWARE BENEFITS

Windows Based Software	User friendly
Surveillance & Control Software	Provides dedicated event and alarm handling



HARDWARE SPECIFICATIONS

MARINET maintains its specified performance when exposed to the environmental conditions as detailed

Maximum Zone Length	100m	Temperature Range	-25°C to +70°C
Adjustable Vertical Intruder Load Detects	5-30 kg.	Lightning, EMI,RFI	Immune to lightning and distortion by EMI and RFI; Communication line to control center is also fiber optic cable
Optical Dynamic Range	50 db	Humidity	All parts, cables and electrooptic control junction boxes completely waterproof
Dimensions	60 x 25 x 40 cm	Salt Spray	System resists corrosive salt spray
UPS (Uninterrupted power supply)	Connected to main central computer	UV Stabilized –	Sensors, cables and plastic parts withstand UV and are weather and corrosion proof
Power Supply	No power supply required on site due to very low power consumption	Weather Proof	
		Central Computerized Control Spec	<ul style="list-style-type: none"> · Pentium 4 compatible computer · 128 MB memory · 40 GB hard disk · VGA color monitor · UPS standby power supplies · Communication Unit- RS232 · 12VDC wall power supply
		Life Span	Estimated life span is 10 years

SOFTWARE SPECIFICATIONS

Operating System	Win NT4, 2000, XP	Security Software Programs	T10000
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APPLICATIONS

DoD

- Naval Bases
- Air force Bases
- Marine Bases
- Harbor Entrances

DoE

- Onshore Power Stations

Commercial

- Underwater Pipelines and Cables
- Offshore Oil Rigs
- Aquaculture and Beaches

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