

# Secure-Ship

The Patent Pending Ship Protection System  
Protects ships against Intruders.



The seas are becoming more dangerous each year. The increase in armed robberies and piracy attacks is alarming.

The disappearance of ships and the hostage taking of an entire crew are the extremes of this trend.

Stowaways are both a security risk as well as a financial burden.

- Detect intrusion attempts
- Prevent robberies in harbors (anchor or alongside)
- Deter and prevent piracy attacks
- Prevent stowaways from climbing on-board
- Protect your clients cargo
- Give the crew peace of mind

The Secure Ship - Ship Protection System is designed to protect vessels against piracy attacks, illegal entrances and stowaways. Secure-Ship does this in three ways:

**Detection of a boarding attempt** - warning the crew,  
**Scaring away the boarders** - very loud siren and flood lights,  
**Prevention of this attempt** - electrifying protection system.

The system consists of a "collapsible" electrifying fence that is placed all around the ship. When entering a harbor or when a boat or barge needs to come alongside the electrifying fence is easily collapsible. Since the fence is divided into port and starboard zones it is possible to activate only one side of the ship while de-activating the other. This is very useful when the ship is moored alongside in the harbor, and one wishes to de-activate the pier side while keeping the water side active.

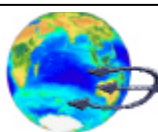
Further, the fences has "gates" which enable temporary openings as required for pilots, gangways and liferafts.

A sophisticated control system detects entry attempts and transmits those to the various output devices (lights, alarms, sirens). The very loud noise generating system and strong flood lights ensure that any boarding attempts are quickly aborted.

The (non-lethal) high voltage ensures that the vessel is an almost impregnable hindrance, protecting the crew and ship.

In the event of a power failure the system will continue to detect intrusion attempts. The Energizer system produces high voltage peaks with a maximum of 9000 Volts. This high voltage guarantees a shock at the slightest contact with the electrified wire. The shock effect resulting from high voltage is a non-lethal deterrent. The maximum current within the wire is limited to 36mA. This produces a shock of 8 Joule, which is the legal limit. Detection in the advanced power system is designed in such a way that it is insensitive to all types of influences of the environment and salt water waves, without the effectiveness of detection being impaired.

**Protect your investment  
and the lives of your crews!**



**Secure-Marine**

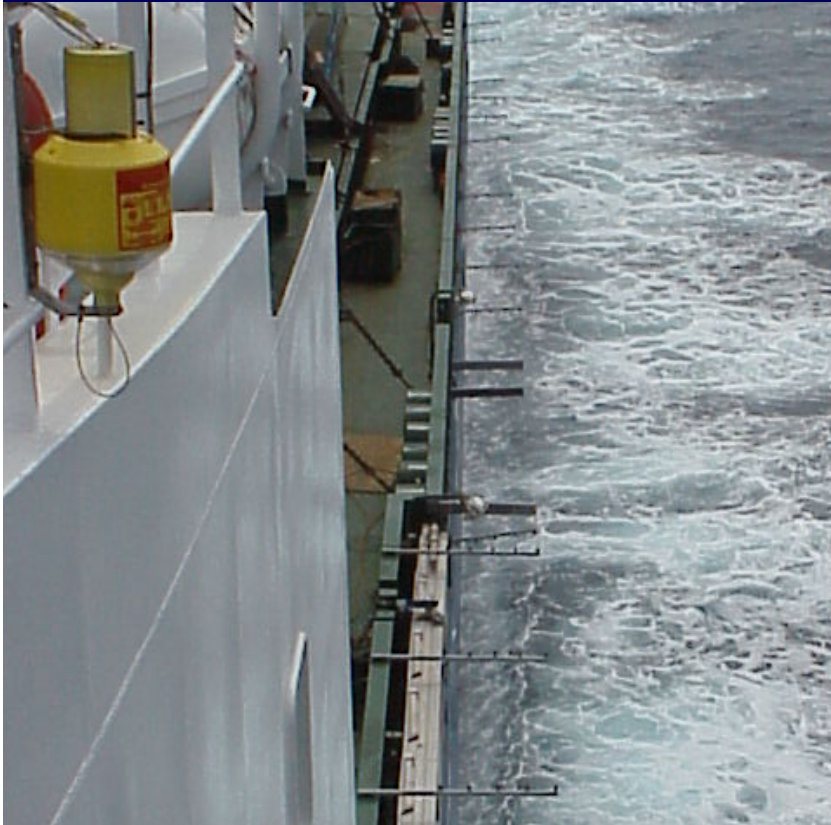
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The Maritime Security Consultant



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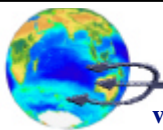
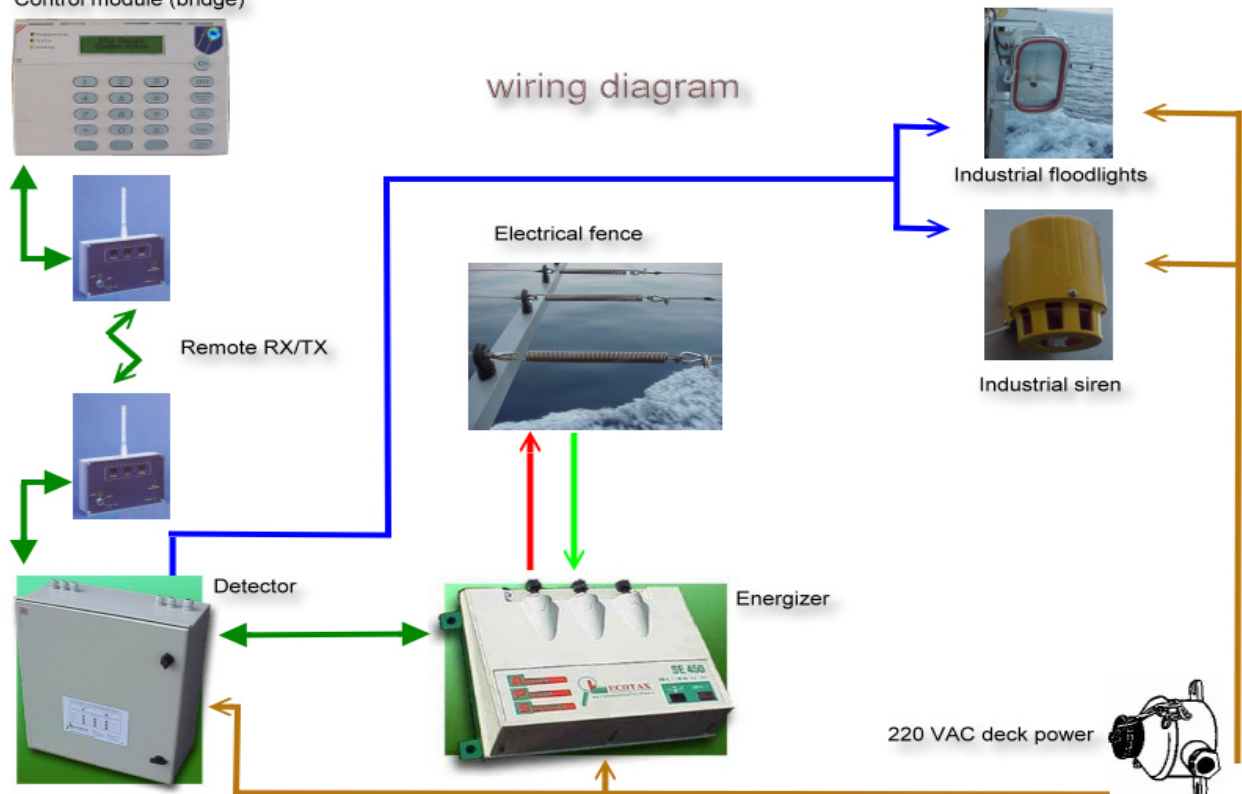
## Specifications

Input Voltage:	230 VAC
Emergency power supply:	24 hour backup low currency system
Number of detection zones:	Standard 2, up to 8 zones
High power current voltage:	9000 volt
High power current energy:	8 Joule
Number of pulses:	50 x per minute
Sabotage detection:	Low currency signal
Alarm types per zone:	High voltage circuit alarm Low voltage circuit alarm Pre-alarm currency drainage Los of main 230 V supply Attempt to open control units
Activating / de-activating:	Per zone using the Memtel control unit

Control module (bridge)



## wiring diagram



## Secure-Marine

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