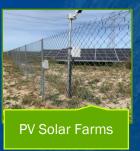


Perimeter Security Systems Detect Them at the Perimeter

35 Years of Providing User Friendly and Cost-Effective Outdoor Security Solutions for Any Type of Project

















The Objective

Protecting maritime locations from intruders, explosives, and other waterborne threats.

Examples include: Ports, moorings, individual ships, maritime construction sites, oil platforms, strategic shoreline areas.

















The MARINET System

MARINET is a unique defensive net barrier designed for installation in water environments. MARINET is a highly customized solution; the concepts shown in this presentation are examples of the system's capabilities. The system can also be implemented in various other ways not shown here.

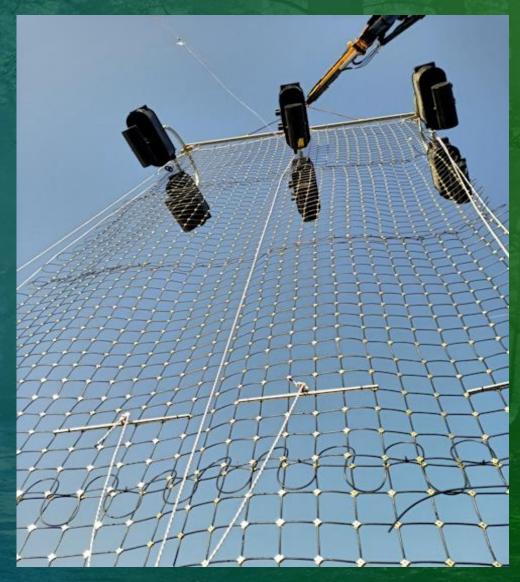
MARINET is designed to be installed above water, under water, and on structures to block divers, boats and objects from entering into protected areas.

The barrier is available for installation in various configurations according to the customer's infrastructure and security needs.

MARINET is designed to protect entrances to ports and open water ways such as under docks, the foundations of drilling and oil platforms, as well as waterway intakes and outflow areas for power stations.

MARINET consists of 3 main components that can be sold separately or as part of an integrated solution:

- Floating Barrier
- 2. Smart Fiber Optic Detection Net
- 3. Manual or Automatic Maritime Security Gate







Floating Barrier

The barrier can be installed as a permanent barrier anchored to the ground with concrete anchors.

Alternatively, it can be installed as a floating barrier that can be moved and redeployed in water along changing protected areas, for example around ships that move in and out of port.

In this configuration, the water opening is blocked and does not allow the passage of boats, divers, and floating objects past the barrier.







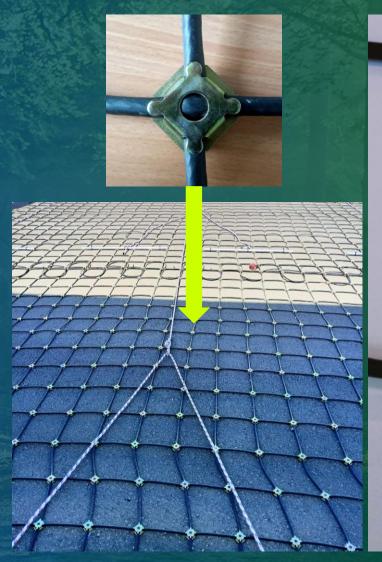
Smart Fiber Optic Detection Net

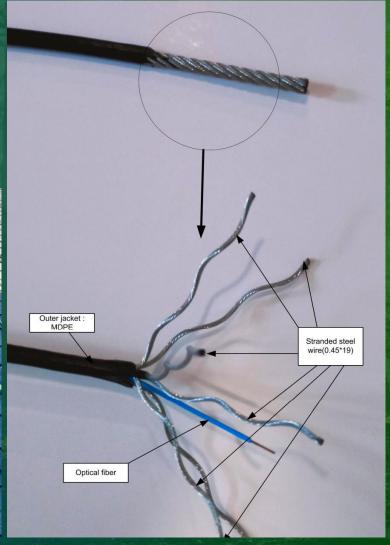
The Net:

The net consists of a fiber optic cable protected by a layer of stainless steel braid. The net is designed to allow sea currents to pass through the system unimpeded. The cable is heavily treated against sea life and vegetation.

The Joints:

The joints are made from stainless steel and are designed to hold the fiber optic cable in place. The specially-designed clips are built with a unique locking mechanism allowing one-way movement to close the clip and preventing accidental release. If forced open, an alarm will be trigged.







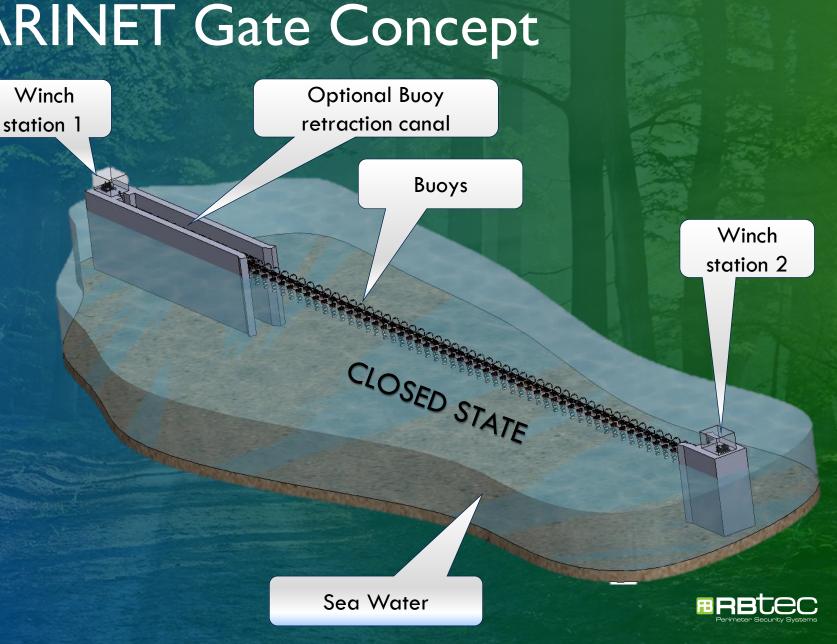
MARINET Gate Concept

A unique feature is the maritime gate that functions manually or automatically.

The gate is built from an array of chained buoys on which the net is mounted. When deployed, the waterway is closed.

Deployment and closure is done by motors situated at the edges and along the grid.

The winches pull the gate open and closed without any need for additional mechanical assistance.



MARINET Gate Concept



Buoy retraction canal

Winch station 2

200_{meter/650feet}

FULLY OPEN STATE Buoys

When the gate is fully open, the guide cable is not under tension and sinks to the seabed.

When closing the gate, winch #2 creates tension on the guide cable, raising it and allowing the buoys to be guided and pulled across the waterway, thereby sealing the entrance.

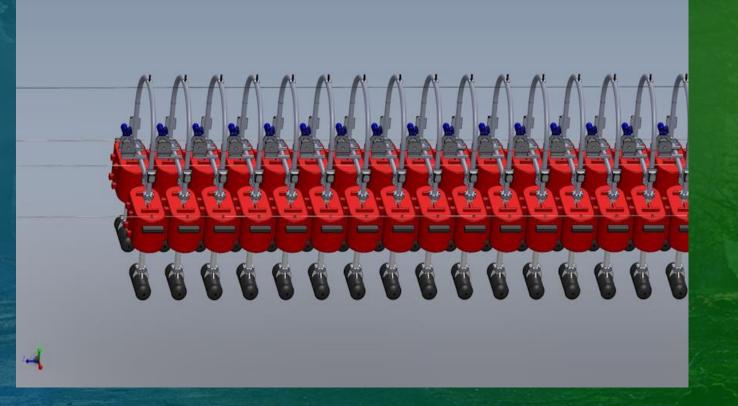




MARINET Gate Concept

When the gate is fully opened, all buoys are pulled to one side of the gate. The buoys are attached to a guide cable system that insures alignment in all weather conditions.

Gate functions are handled from a computerized control center that manages and monitors the movement of the gate. An unauthorized attempt to break through the gate will trigger an alarm in the control center.



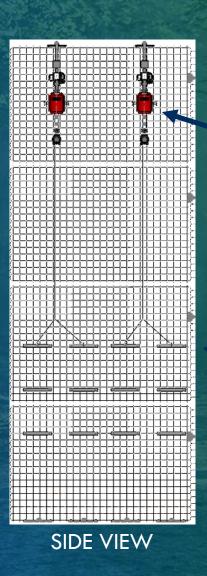


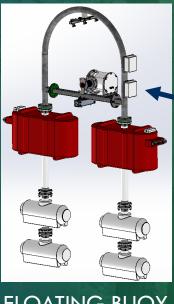
The Net Component in the Maritime Gate

The net component within the gate concept is built from a combination of the 3 main components:

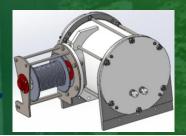
- Floating Barrier Holds the net under and above water.
- Smart Detection Net Detects cuts, climbs, and lifts from the ground.
- Electrical winches To fold and raise the net from the seabed.

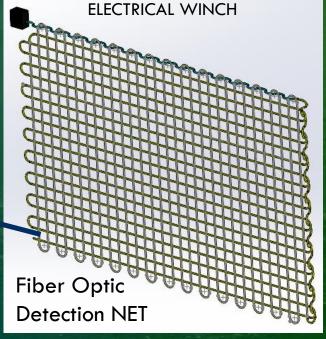
To be able to open/close the gate first the net needs to be raised from the ground and folded. The winch on each buoy raises the net from the ground to protect the net when the gate opens/closes.













Thank you! Questions?

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