



Sea border

Safety & security



EVITECH's Jaguar® video analytics solution ensures safe monitoring of the sea border of very sensitive sites in France & North Africa.

Issue : Sensitive and critical sites with a sea shore must ensure protection from the sea access. This includes many situations, such as people walking on the shore and getting in the site, small boats coming from the sea and landing, divers coming out of the sea, as well as possible terrorist attacks with high speed boats self exploding on the installations close to the sea.

Solution : Thermal cameras have the possibility to monitor the sea by day and night, as well as by fog, at several hundreds of meters, when there is almost no possibility of artificial lighting on the sea surface. Very small FOV (2-5°) uncooled cameras are used, with a specific installation so they would cross each other and monitor the sea surface from 500 to 800 meters from the shore, with a few number of cameras. In the site used as an example, 18 cameras ensure protection for 4 kilometre of sea border. In complement with these cameras, a beach safety line is deployed with 5 cameras detecting any diver who would come out the water directly on the beach. Tide is of course taken into account, either because it does not affect surveillance at long range, or because a moving area is taken into account in an ephemerid and follows the tide on the beach. Jaguar was qualified for detection from a thermal camera of targets whose size is as small as one pixel. In this example of the 4 km sea shore, the 23 cameras can be monitored by no more than 4 Jaguar detectors, which represents a negligible price against the cost of the used cameras.

Tests : tests are done by the security officers who simulate intruders coming from sea with a boat, or swimming & walking, or walking from the shore side.

Remarks : An official agreement can be required for video cameras deployment, as well as storage of traffic in the sea neighbourhood of the site. This solution can be deployed in complement of a perimeter video analytics solution for the rest of the site.

About Evitech : Created in 2005 in France from a military R&D project, the company has rapidly developed with an average 200% CA progression rate. From a turnover of 500 K€ in 2008, the company targets a turnover of 1 M€ for 2009. EVITECH's software products address the fields of smart video surveillance for global security.

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