

German-French cooperation to provide better protection in the Gulf of Aden

Kornwestheim, January 2010 - by order of the French company EURILOGIC, in-innovative navigation GmbH modernizes radar data processing onboard of frigates.

In Fall 2009, the company EURILOGIC awarded a contract for modernization of two French frigates with respect to the radar technique onboard.

Since December, these two vessels operating in the gulf of Aden are equipped with state-of-the-art hardware and software components of the German company in-innovative navigation GmbH, in order to integrate all sensory data of the surveillance system in an optimal manner.

The European Union decided already in 2008 to send marine vessels for „Operation Atalanta“ into the region to combat piracy along the coast of Somalia, because more than thousand pirates were already operating in the Indian ocean and the red Sea, too.

Piracy even affected food aid for the Somali people, because it is mainly transported by sea way. It is more and more a serious danger for the international trade, since one of the most important ocean lanes between Asia and Europe, Suez Canal and red sea, are in the focus of pirates. However, the Somali government has no means necessary to stop it efficiently.

On the one hand, it is essential to clarify the reasons for increase in pirate activity in that region in order to develop a permanent solution of the problem; on the other hand it is required to defend against piracy on sea and to coordinate protection of the sea way. Hence, the main aim of „Operation Atalanta“ is to protect cargo ships of the food aid. Many countries sent additionally ships into the region for support, like France did with two frigates.

However, the technical equipment for radar detection onboard turned out to be partly insufficient for this particular task; and it was decided to modernize the sensory systems.

The new system developed by in-innovative navigation GmbH for radar data processing is now able to track reliably even objects that change rapidly velocity and movement, while simultaneously air space is also monitored by radar, where rather large objects in the far field have to be detected.

The software modules RADARextractor and RADARtracker of in-innovative navigation GmbH are specifically adapted to this complex data processing. This software is able to extract and track thoroughly big objects from radar images like airplanes or container vessels that move quite uniformly with respect to speed and direction; and it also identifies small objects on the water



surface that move erratically in the near field or far field. On the bridge, one large display presents all images coming from different radar scanners onboard can be presented in one large



display on the bridge. The operator can switch by mouse click between the radar sources, according to requirements.

Furthermore, it is possible to integrate seamlessly AIS(Automatic Identification System)–communication into the display, as it is common in aviation and shipping.

The vessels sent by France into the region now are equipped with a unique display system allowing indication of all objects approaching from the air and on the water at the same time, and the operator recognizes at one glance when

pirate boats attack a cargo vessel.

Many jobs of the European export business depend directly on the safety and freedom of maritime trade ways. The collaboration project between EURILOGIC and in-innovative navigation GmbH indicates the new ways of European cooperation to address such safety problems.

about EURILOGIC:

EURILOGIC operates with fixed rate contracts offer, divided in two divisions : Products Division and Services Division, to conceive, manufacture, maintain specialized electronic systems and supply services with high added value.

about in-innovative navigation GmbH:

Following a modular conception, in-innovative navigation GmbH develops software, which can be applied in all areas of navigation, telematics and traffic surveillance. in-innovative navigation GmbH is market-leading with the inland ECDIS navigation system RADARpilot720°, that integrates all information from radar, GPS, AIS on an electronic ECDIS chart display. inDTS is the powerful display application from in-innovative navigation GmbH for traffic monitoring used in Vessel Traffic Services (VTS) centers and coastal surveillance systems.

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