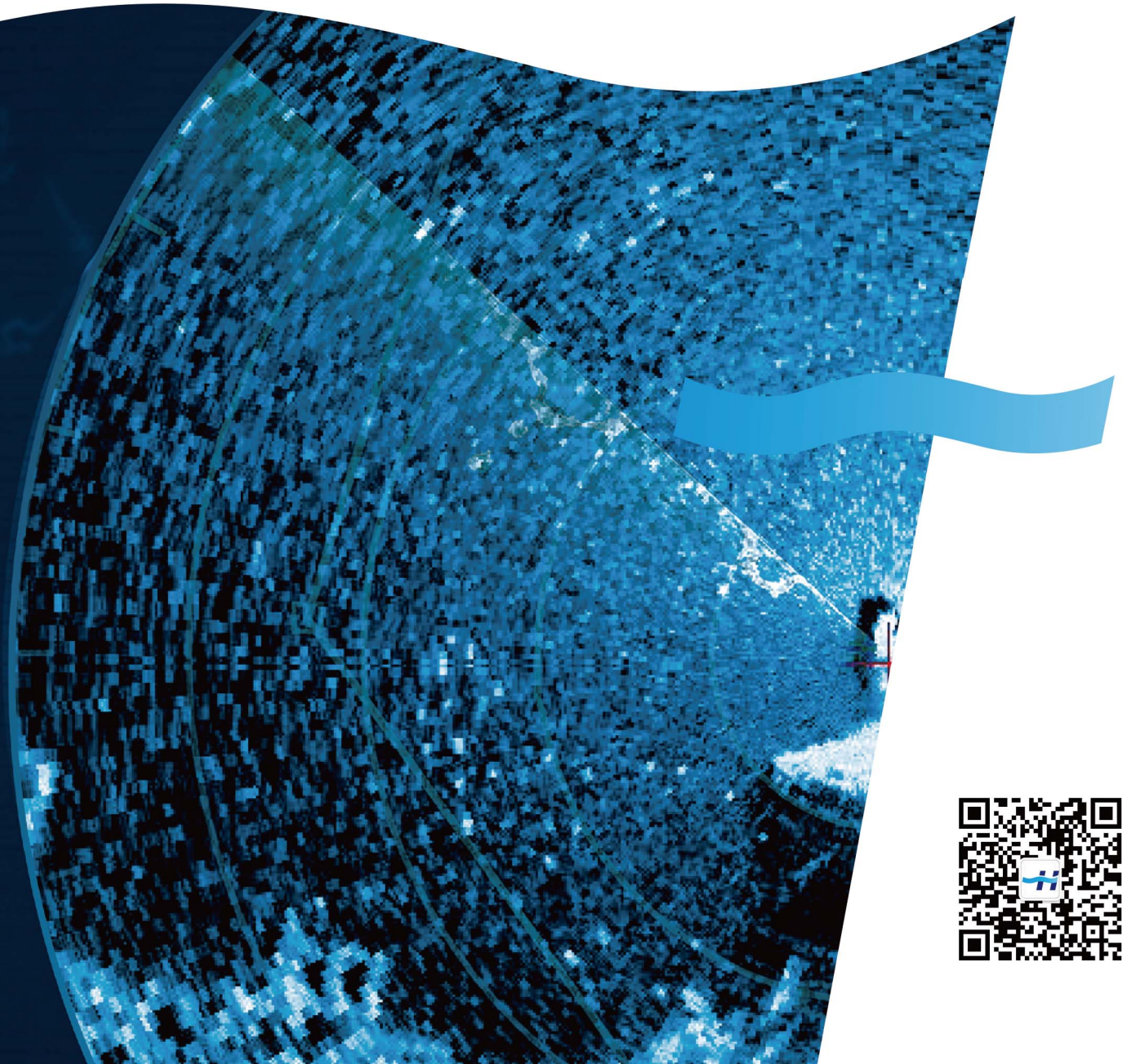


OIL SPILL DETECTION AND MONITORING RADAR HLD-AOSD



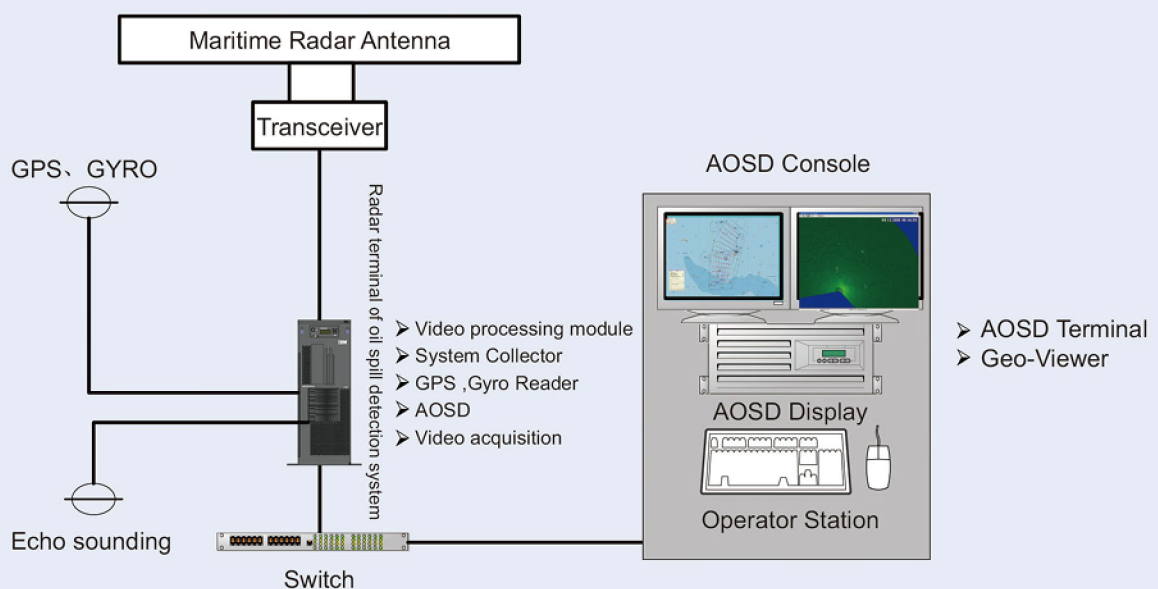
Overview

Oil spill detection and monitoring radar is researched and developed by Highlander. Through professional signal processing on normal maritime radars ,it can detect , track and monitor the changes in the oil spill area in real time. The system can be standalone system or integrated with shipboard navigation radar. An oil spill detection network can be built with many signals linked via network.

Main Features

- Process the original radar video and extract oil spill
- Pass the processed original radar image data to the oil spill detection server
- Generate several alarming layers and pass them to the oil spill detection server
- Record original data/ processed data and alarms
- Visualize the process of oil spill detection and configuration
- process radar signals and send them to other component by video processing module
- Process radar data and extract oil spill by oil spill detection module

Component



Specifications

Oil spill detection	Maximum detection range	Related to antenna height, with antenna height at 20m, effective detection range is up to 4 nm
	Resolution	Related to pulse length of antenna height of 20m, short pulse at 50ns, detection resolution is 20m
Wind Speed Condition		$\geq 2.5\text{m/s}$
Compensation of own vessel's movement		System automatically compensates own vessel's movement
Real-time Tracking of Oil Slick		System tracks changes of oil slick shape changes in real time
System Sensitivity		Tracks Oil Slick drift length up to 50m

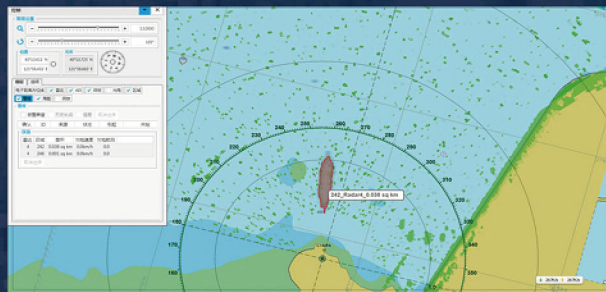
Presentation



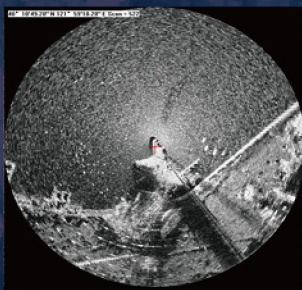
AOSD is a fully automatic system. No manual operation is needed.



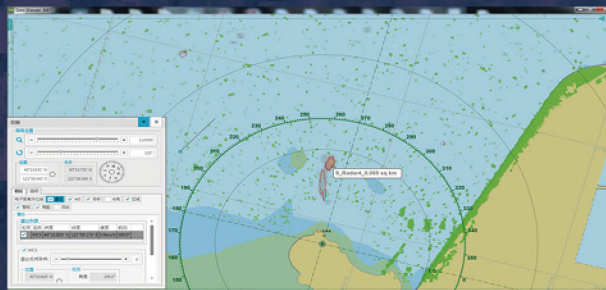
Original image



Interpreting image



Original image



Interpreting image



Beijing Highlander Digital Technology Co.,Ltd.

Add: Building 10#, Courtyard 7# Dijin Road, Haidian District Beijing, China

Post code: 100095

Tel: +86 10 59738989

Fax: +86 10 59738737

www.highlander.com.cn

Version: V5.19.11. Replication, use and public release are prohibited without agreement permission, otherwise, Highlander will reserve the right to investigate and affix legal liability according to the law. Final product upgrade may not conform to the brochure without notice.