

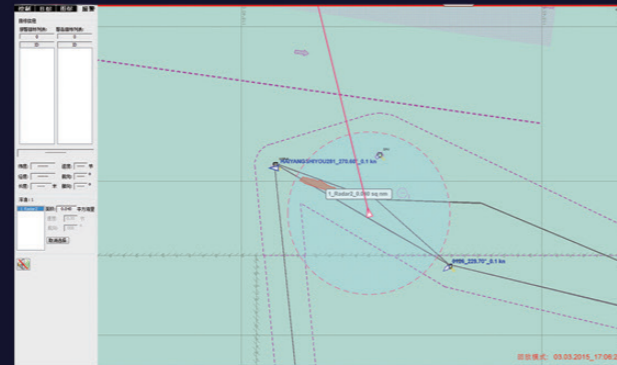


海兰信  
Highlander

## » Oil spill detection

Automatic Oil Spill Detector is able to detect and track oil-spill and its drifting in real time. The system can be standalone system or integrated with onboard navigational radars. An Oil-Spill Detection network can be built with many single system linked via network.

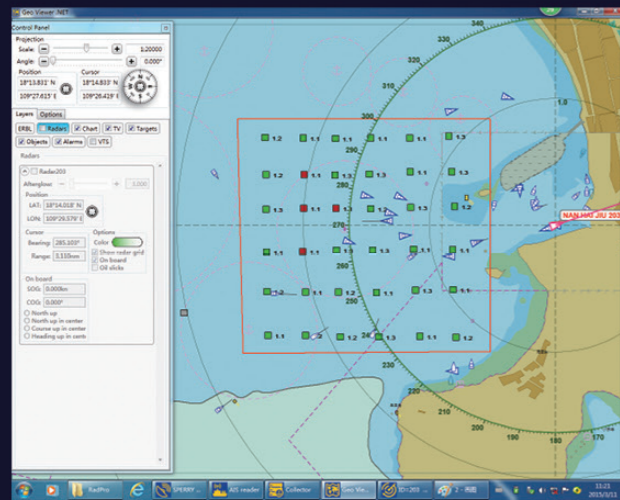
- Fully-automatic oil spill detection, timely warning and rapid response
- Display oil slick outline, area, moving speed and direction in a real-time manner
- Enhance maritime oil spill emergency monitoring and disposal capacities
- Prevent and control oil spill pollution risk and protect the maritime ecological environment.



Actual case: Detect the area of floating oil

## » Sea wave detection:

- Long-term continuous detection of the sea area covered by the radar so that the data is more comprehensive
- Customized alarm area to effectively detect dangerous sea wave
- Update data in real time to ensure safe operations
- Improve maritime data observation capability to provide the decision-making department with data support
- Support maritime aircraft docking



Actual case: sea wave detection

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# Composite multi-functional radar



HLD-RADAR900/900C



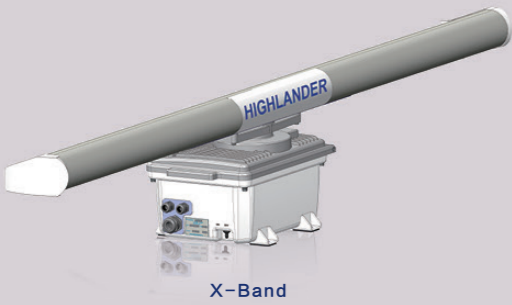
CCS/EC

## Function :

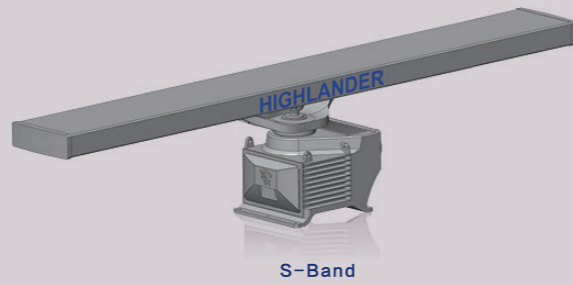
- Navigation and Collision avoidance
- Small target detection
- Oil spill detection
- Wave Height detection

» Navigation and Collision avoidance

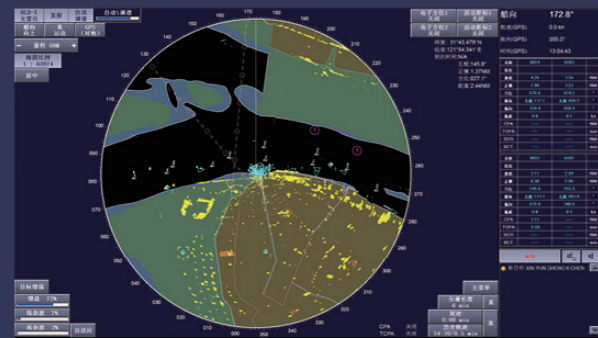
HLD-900 marine radar and HLD-900C marine chart radar conforms to the standard IEC62388-2013/IEC62288-2014, meet the application requirements of IMO merchant, the series of product configuration can meet various types of CAT1/2/3 required, provide Chinese and English version of the radar software, used to meet the ship and crew.



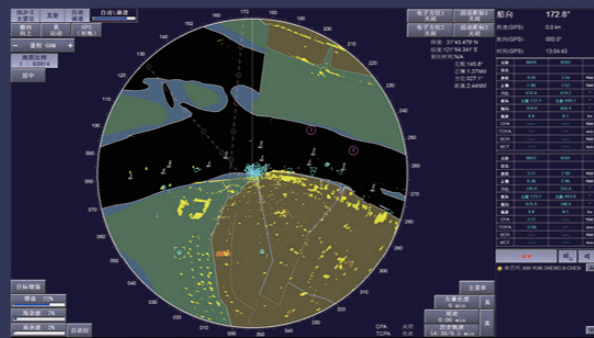
X-Band



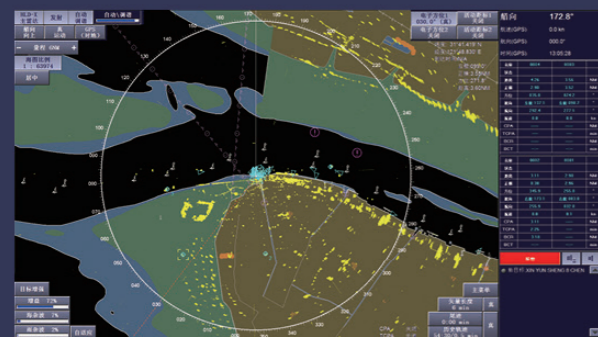
S-Band



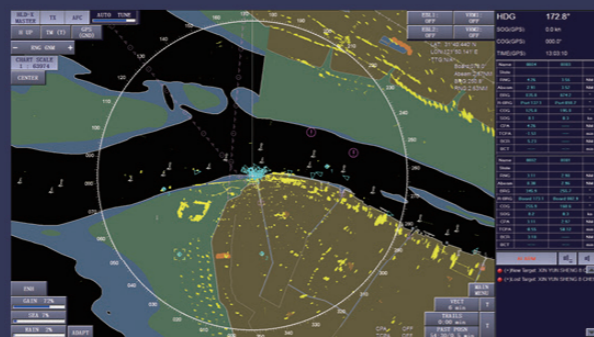
Circular screen display mode (Chinese language)



Circular screen display mode (English language)



Square screen display mode (Chinese language)



Square screen display mode (English language)

» Small Target Tracking、Detection、Identification

The system uses radar, CCTV, AIS and GPS as major sensors, which implements excellent tracking ability for small targets(RCS≥0.1m<sup>2</sup>, height≥1m). Advanced signal processing algorithms (non-constant adaptive threshold, TBD, clutter statistic, characteristic matching) are also designed for enhancing the ability of small target detection.

► System feature

- Excellent target tracking and detection capability, especially the small target.
- Radar CCTV integration and intelligent guidance to achieve all-weather and around-the-clock tracking, detection and identification of a specific target.
- Simultaneous monitoring of a variety of targets (high speed, low speed, air, sea surface, etc.) and customized alarm.
- Set alarm conditions according to zone control and event control.
- Large-capacity data processing.
- Multi-radar monitoring stations networking and flexible system structure, which supports a multi-level command centre.
- Multi-sensor (radar, AIS, photo-electric, GPS and other active and passive sensor information) fusion, which shows the target detection and identifies source and also analyse the situation under a unified platform.
- Implement recording and playback to facilitate verification and improve the work efficiency

