



Leadership through Persistency in Innovation



# AWHC

## WAVE MEASUREMENT RADAR

### HLD-AWHC1000



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# AWHC

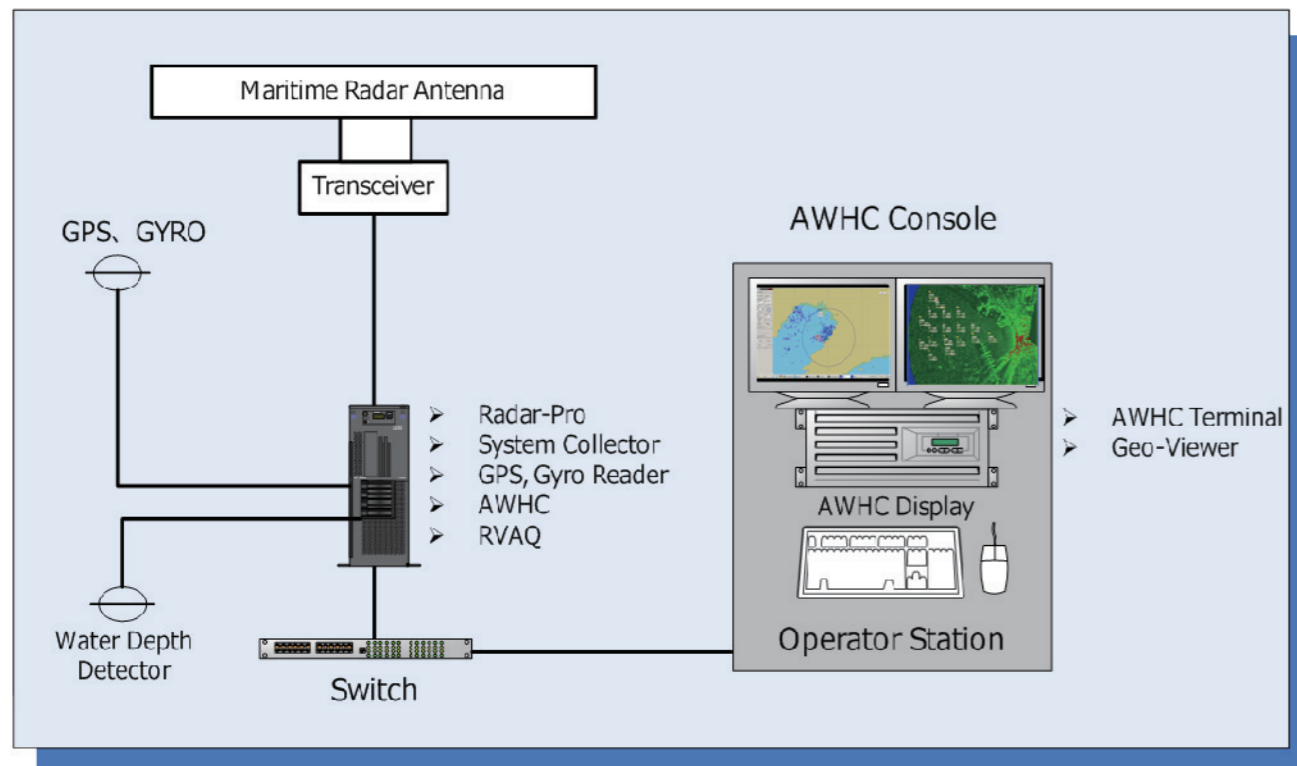
Automatic Wave Height Calculator

Today, technology had allowed the use maritime radar to substitute buoys when monitoring waves. Highlander has developed the Automatic Wave Height Calculator, which can be updated regularly, more accurate and economic comparing conventional wave buoys. Furthermore, the 2D and 3D sea status map can be drawn in real time. Marine work boats, rescue vessel and cargo tanks need fast and accurate data of waves. HLD-AWHC1000 is designed and developed based on such demands. Many onshore radars can be used with AWHC1000 system, and expended to provide wave data.

## 【Features】

- Receive raw video from radar
- Process raw video and calculate wave heights, draw sea status map in real-time
- Forward the processed radar video to the System Collector
- Generate wave parameters and forward to system collector
- Record all data
- Visualization of Wave Height Calculation

## 【Configuration】



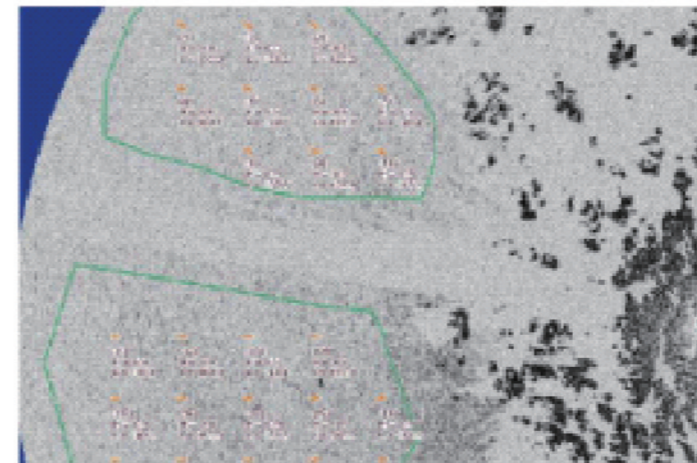
- AWHC can be deployed as a standalone system or integrated with most of onboard navigational radars.

## 【Technical Specifications】

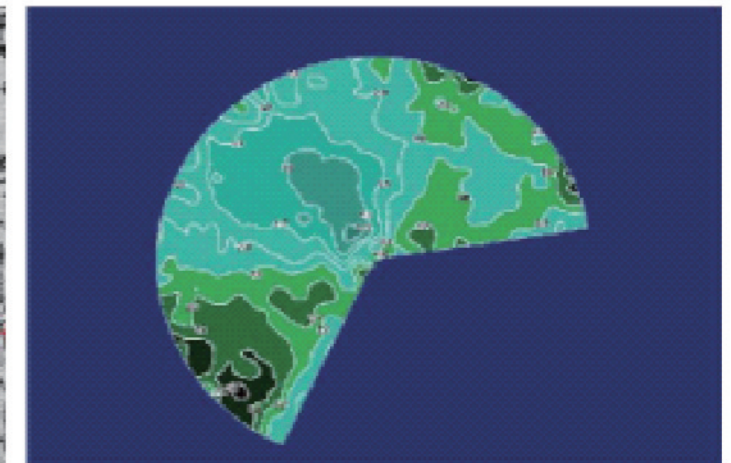
Criteria	Range	Definition	Error
Wave Height	0~5m	< 0.1m	± 0.50 m
Wave Height	>5m	< 0.1m	± 10%
Wave Period	3~30sec	< 0.1m	± 0.50sec

## 【Presentation】

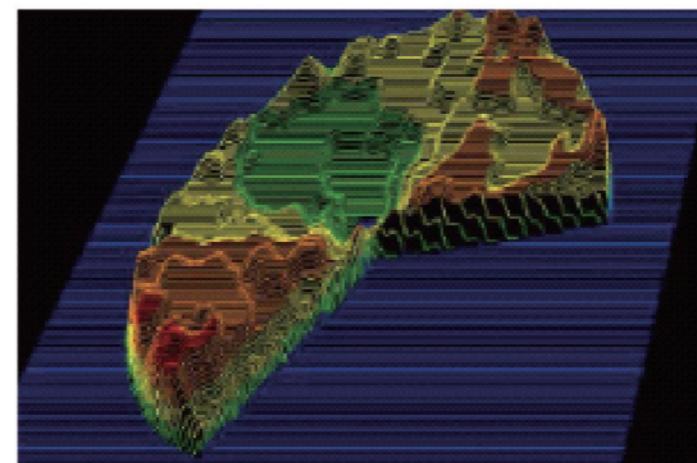
The AWHC is a fully automatic system. No manual operation is needed.



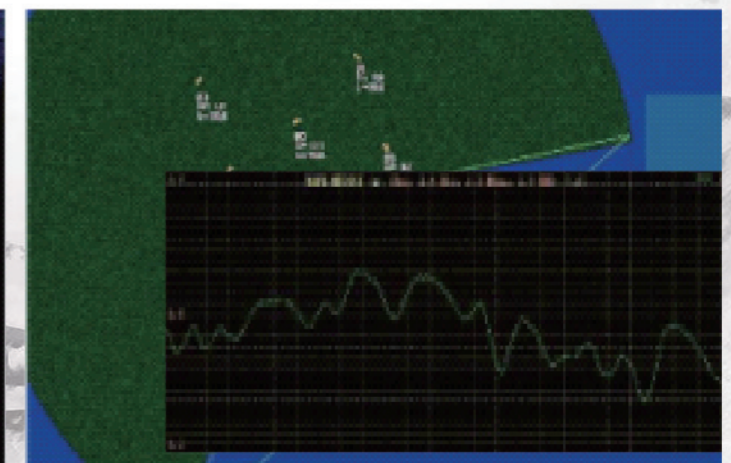
Main Presentation – Virtual Buoys with significant values of wave height, wave length and wave period



2D sea status map



real-time 3D presentation of waves



historical wave curves for individual virtual buoys