

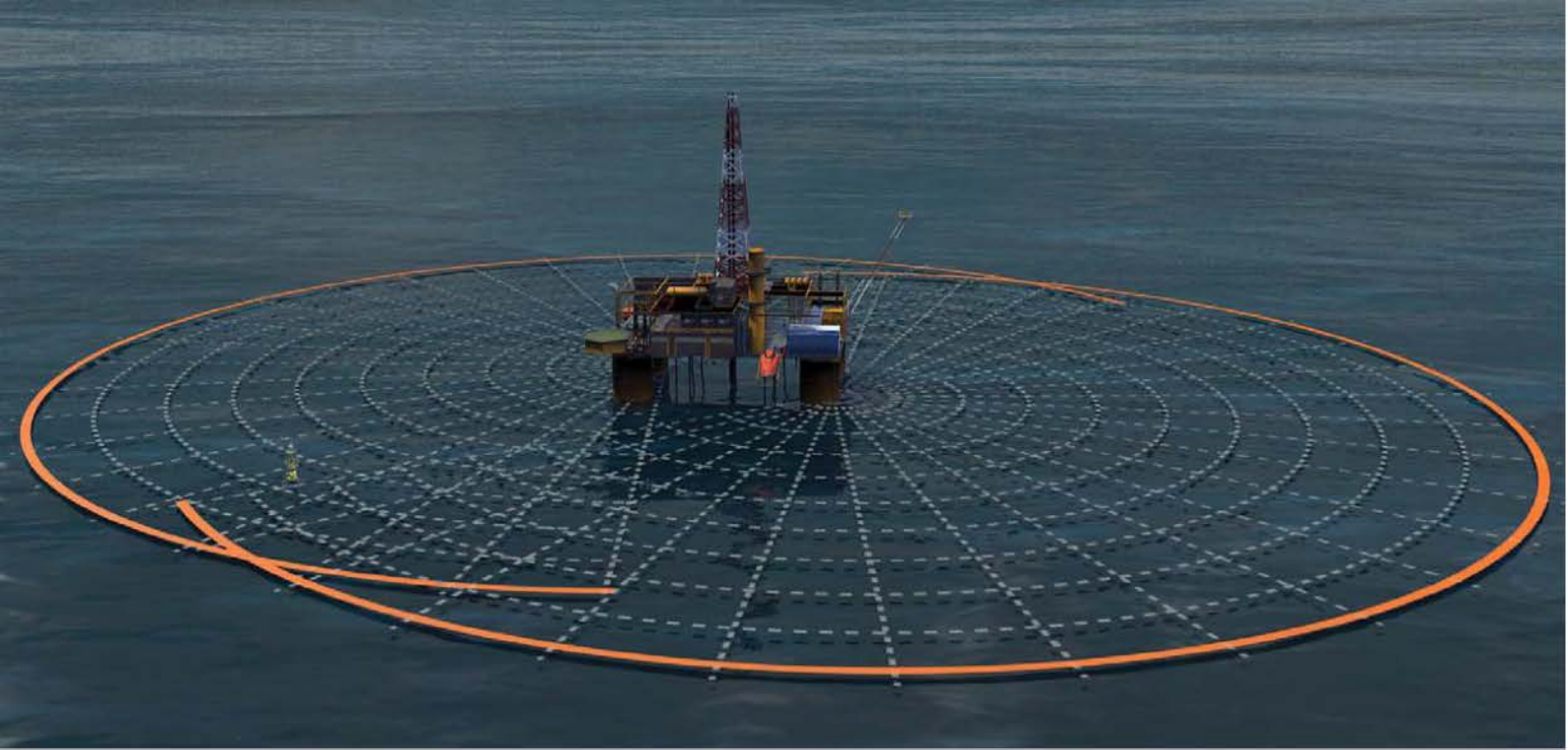


EXPERIENCE THE DIFFERENCE  
YOUR SECURITY & SAFETY PRODUCTS



**AQUASHIELD™**  
**DIVER DETECTION SONAR**





## The AquaShield™ System Units



## The AquaShield™ Applications

The AquaShield™ is designed to guard the following **coastal and offshore sites from underwater intrusion and sabotage:**

- ★ Naval Bases
- ★ Energy terminals
- ★ **Offshore platforms**
- ★ Ports and Harbors
- ★ Nuclear power facilities
- ★ Underwater pipelines and cables
- ★ Borders
- ★ VIP Sites
- ★ **Other critical coastal/offshore asset**

## Underwater Threats

Any underwater intruder, including:

- ★ Divers with closed circuit breathing apparatus
- ★ Divers with open circuit breathing apparatus
- ★ Diver Propulsion Vehicles (DPV)
- ★ Unmanned Underwater Vehicles (UUV)



# AquaShield™ Specifications

The AquaShield™ Main Units		Special Processing Algorithms	Detection Ranges				
<ul style="list-style-type: none"> <li>&gt;&gt; Underwater Unit</li> <li>&gt;&gt; Processing Unit</li> <li>&gt;&gt; Control and Display Unit</li> <li>&gt;&gt; Junction Box</li> </ul>		<ul style="list-style-type: none"> <li>&gt;&gt; Performance Optimization</li> <li>&gt;&gt; Coherent and Energy Detection</li> <li>&gt;&gt; Bearing Interpolation</li> <li>&gt;&gt; CFAR Processing</li> <li>&gt;&gt; Two Dimensional Normalization</li> <li>&gt;&gt; Adaptive Threshold</li> <li>&gt;&gt; Automatic Detection</li> <li>&gt;&gt; Automatic Tracking</li> <li>&gt;&gt; Automatic Classification</li> <li>&gt;&gt; False Alarm reduction</li> <li>&gt;&gt; Automatic Alert</li> <li>&gt;&gt; Automatic Elimination of Wakes</li> <li>&gt;&gt; Static Target Suppression</li> </ul>	Diver with open circuit breathing apparatus	1,000m			
			Diver with closed circuit breathing apparatus	700m			
The Underwater Unit		Transmit / Receive Parameters					
<ul style="list-style-type: none"> <li>&gt;&gt; Underwater Front-end Electronic unit (UFE)</li> </ul>							
<ul style="list-style-type: none"> <li>&gt;&gt; 1 Transmit Array (Tx) with 360° coverage</li> </ul>							
<ul style="list-style-type: none"> <li>&gt;&gt; 1 – 3 Receive Arrays (Rx) depending on the required coverage:                             <ul style="list-style-type: none"> <li>■ 1 Rx array for coverage of 120°</li> <li>■ 2 Rx arrays for coverage of 240°</li> <li>■ 3 Rx arrays for coverage of 360°</li> </ul> </li> </ul>		Display Formats					
		<ul style="list-style-type: none"> <li>&gt;&gt; Sonar Data</li> </ul>					
		<ul style="list-style-type: none"> <li>&gt;&gt; Tactical Picture on:                             <ul style="list-style-type: none"> <li>■ Aerial photo</li> <li>■ Satellite Image</li> <li>■ Nautical Chart</li> </ul> </li> </ul>					
		<ul style="list-style-type: none"> <li>&gt;&gt; Overlay of Sonar Data on any type of Tactical Picture</li> </ul>					
Interface & Integration		Recording & Playback		Built In Test (BIT)			
LAN Interface	TCP/IP	Several modes of data recording and playback enable debriefing of special events.		<ul style="list-style-type: none"> <li>&gt;&gt; Constant monitoring of all modules</li> <li>&gt;&gt; Automatic alert in case of failure</li> </ul>			
Integration	with any C&C system						



LEARN MORE: [c4icommunication.com](http://c4icommunication.com)

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