

Image Soft introduces 3rd generation UNWAS, a military-grade underwater surveillance system

New UNWAS system enables 24/7/365 highly automated and cost-efficient surveillance and protection of underwater pipelines, subsea cables as well as key ports and harbors with environmentally sustainable and maintenance free passive sensors.

Helsinki, Finland, 8 May 2023 - Image Soft Oy, a leading Nordic underwater and maritime technology company, has today launched a new 3rd generation underwater surveillance system, UNWAS™.

Building on the success of the 1st and 2nd generation systems, this 3rd generation UNWAS system comes with a completely new digital electronics and software suite. The 3rd generation UNWAS™ system, consisting of distributed modular sensor network with passive hydrophones and other sensors, is used to detect and give advance warning of both underwater and surface threats.

Key features of this new UNWAS™ include:

- being able to meet the demanding acoustic underwater conditions in the various challenging environments, for example the Baltic and North Seas, and it has also been tested and delivered in tropical waters.
- the capability to detect, locate and classify all kinds of underwater threats - including divers, submarines, AUVs, ROVs and underwater drones - even close to busy and noisy shipping lanes.
- detecting approaching threats from extreme ranges without adding sound “pollution” to the oceans that would harm aquatic mammals like whales or dolphins.

The subsea protection software suite - delivered with the system - leverages the latest developments in neural networks and machine learning by implementing deep learning as a key software feature available for operators. This means that that smart software can be taught how to recognize, for example, a mini submarine trying to hide under a noisy civilian cargo ship entering a port. The software can also detect and alert harbor authorities even during busy operations to the presence of unauthorized open- or closed-circuit divers.

Matti Suuronen, CEO, Image Soft Oy, commented: “We are proud to be launching our state-of-the-art maritime surveillance system at UDT 2023. Our new product is a result of years of investment in research in algorithms and signal processing and it also leverages our long experience in underwater warfare simulators. In today’s geopolitical environment, UNWAS perfectly meets the urgent need to defend and monitor both national maritime borders as well as key underwater infrastructure”.

Tuomas Pöyry, Vice President at Image Soft, added: "Helping our customers, who are both national navies and civilian port and pipeline operators, keeping their maritime defense capabilities abreast of the changing operating environment is crucial for preventing sabotage, as was seen with the Nordstream 1 and 2 explosions. The 3rd generation UNWAS™ underwater surveillance system provides our clients with a highly advanced and cost-effective way to secure the subsea domain”.

For further information, please contact:

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You can also visit our website at <https://imagesoft.fi> and at <https://imagesoft.fi/product/is-unwass-underwater-surveillance-system/> for further details about our cutting-edge underwater surveillance systems and maritime simulators.

About Image Soft

Image Soft (<https://imagesoft.fi>) is a global provider of underwater surveillance systems and maritime simulators located in Helsinki, Finland. Image Soft has over 30 years' experience in developing underwater acoustics and simulation solutions for a wide range of customers. In addition to surveillance systems, we offer comprehensive simulator solutions, such as Underwater Surveillance and Tactical Training Simulator and Full Mission Bridge Simulator for Arctic Conditions. Our expertise in Radar, Sonar and tactical training has been developed together with our clients, and our maritime training solutions fulfill the needs of most demanding academies.