

# Use of the STT Module for ASW Training

## Background

- The Teledyne GAVIA AUV configured as a Sonar Training Target is used within the Danish waters together with the SONAR carrying Naval Units of the Royal Danish Navy.
- The goal of the AUV is to facilitate training of Sonar Operators onboard.



Image courtesy of The Royal Danish Navy

# Teledyne Gavia

## Vehicles

**Product:**  
Teledyne Gavia AUV with ASW Sonar Training Module

**Application:**  
Internal training of SONAR operators onboard the major naval units

**Customer:**  
The Royal Danish Navy



Image courtesy of The Royal Danish Navy



Image courtesy of  
The Royal Danish Navy

### History

- The Sonar Training Target has been used by the Royal Danish Navy for more than 10 years and is normally maintained and stored at the Naval Weapons Centre facility at Sjaellands Odde. The Teledyne GAVIA was the first AUV acquired for the Royal Danish Navy.
- As the Royal Danish Navy has no longer submarines within its fleet, the Sonar Training Target constitutes internal training of SONAR operators onboard the major naval units. When joining NATO exercises submarines are normally provided as training assets.

### Challenges

- For the internal Danish Waters the Teledyne GAVIA is well suited as relative low currents prevail ensuring maximum duration of batteries etc. At the Naval Weapons Centre at Sjaellands Odde a special GAVIA team has been established. When needed the team joins the ship's crew and facilitate the launch and recovery as well as the mission planning of the AUV asset.
- The decision to acquire an AUV was based on the fact that the Danish Navy had to decommission its submarine forces. At the time of procurement the Teledyne GAVIA, the built in technology and modularity were considered advantageous and a low cost alternative compared to larger AUV training targets.





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## Conclusion

- Based on years of experience the Teledyne GAVIA fitted with a Sonar Training Module, has proven itself as a valuable training asset. The Teledyne GAVIA is performing well in the environment where it is used, ranging from shallow water operations to operations in the high seas. The technology of the system provides a reliability, which supports the training needs of the Royal Danish Navy.
- Teledyne GAVIA Sonar training Target has improved the Anti-Submarine Warfare skills within the Royal Danish Navy. The concept is not solely utilized as a basic sonar training target for the benefit of the sonar operators, but can also be used as a more tactical asset during Multi Threat Exercises. Compared to the costs of operating a live submarine, the Teledyne GAVIA is a sound economical alternative.
- Teledyne Gavia Sonar Training Target, as it is used by the Royal Danish Navy, provides the naval units with a cost effective means to conduct live training of sonar operators. The size and flexibility of the system makes it a highly mobile system, which can be easily transported between various areas of operations.

Image courtesy of  
The Royal Danish Navy



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