

# Klein Sidescan Sonar for Gavia AUV



Teledyne Gavia has released a sidescan/bathymetry module that incorporates Klein Marine Systems' UUV-3500 high-resolution sidescan sonar with optional bathymetry sonar. The system is an option for customers interested in utilising the Gavia AUV for geophysical survey, cable and pipeline survey, environmental survey or under-ice survey, as well as mine countermeasures (MCM), rapid environmental assessment (REA), or intelligence, surveillance and reconnaissance (ISR) surveys.

Equipping the [Gavia AUV](#) with the survey-grade long range sidescan sonar from Klein Marine Systems creates a mobile survey platform with high quality sidescan range and resolution. The swath bathymetry option allows for wide swath performance which is typically ten to twelve times the overall altitude of the AUV. The module allows customers

to have both side scan and swath bathymetry from a single module. The first delivery of the [Klein UUV 3500](#) Module will occur in Q1 of 2017 and is integrated with the SeeByte Autotracker software for autonomous pipeline tracking. The Gavia AUV can also be equipped with a camera and strobe system for close inspection of any targets identified by the sonar system.

## Also for Geophysical Surveys

Arnar Steingrímsson, global head of Sales – AUVs at Teledyne Marine mentions that geophysical surveys can also be conducted by adding to the swath bathymetry option, the Teledyne Benthos sub-bottom profiler module and environmental sensors.

In addition to the release of the Klein sonar module, Teledyne Gavia has recently released two other upgrades to its vehicle.

1. The upgraded Gavia battery module has more than a 20% increase in capacity thanks to a partnership with Teledyne Energy Systems. In addition, a high efficiency power management system was developed by Teledyne Gavia to optimise the performance of the batteries.
2. A new and improved nozzle actuator has been released. The nozzle increases the volume of compensation to better deal with deep water operations and temperature variations.

These enhancements increase the reliability, efficiency and performance of the Gavia AUV system.