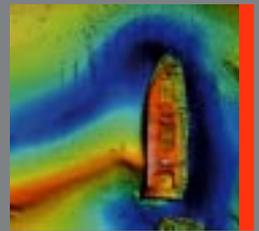


Aquadyne

Suppliers of sound
instrumentation





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Established in 1995, Aquadyne AS is a Norwegian company supplying underwater positioning and mapping systems from some of the world's leading subsea equipment manufacturers.

In the areas of acoustic navigation and control, hydrographic survey systems, GPS, motion sensors and echo sounders, **Sonardyne**, **Reson**, **Trimble**, **VT TSS** and **Innomar** are recognised for their innovative products, engineering excellence and high levels of customer support.



Tailor made solutions

We work closely with our customers to ensure we have a thorough understanding of their requirements, project deadlines and budget. We tailor an integrated solution that meets these parameters and ensure that the complete delivery process is monitored from product development and manufacturing through to installation and commissioning.

Our close co-operation with customers and manufacturers creates awareness of future requirements. Based on this, Aquadyne encourages and supports the development of innovative equipment to meet the evolving market.

Training and Support

We can arrange operator and maintenance training courses for all the products that we supply. Courses in English or Norwegian can be held at a time and location to suit you, such as on board your vessel, at our premises in Asker or at one of the manufacturers' own training centres.

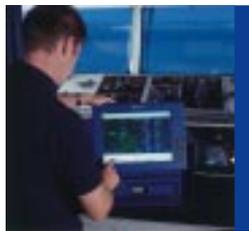
We are available to support clients and their operations 24 hours a day. This is backed up with help and advice on how to maximise the performance from your equipment and extend its operational lifetime by recommending appropriate upgrades when they become available.

Sonardyne is an international group of companies specialising in the use of sound for underwater navigation, positioning, data communication and control.



Applications for the company's technology are found within the offshore oil exploration, construction, survey, drilling and oceanographic industries.

Aquadyne has represented Sonardyne in Norway since 1995



Over the last three decades, innovation and performance have maintained Sonardyne's reputation for technical leadership and today the company's products are recognised for their dependability and advanced design.



In many of these areas, the products Sonardyne has developed and the techniques they have pioneered have become the industry standard.



Where standard off-the-shelf equipment is not suitable, our team works with Sonardyne to propose low-risk solutions that encompass customised acoustics, electronics, software and mechanical hardware.

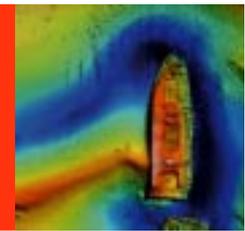
Certified by DNV to ISO 9001:2000, quality is an inherent goal of Sonardyne. It is the company's policy to design and manufacture products and provide services which are fit for purpose in all respects, including reliability and through life costs and support.





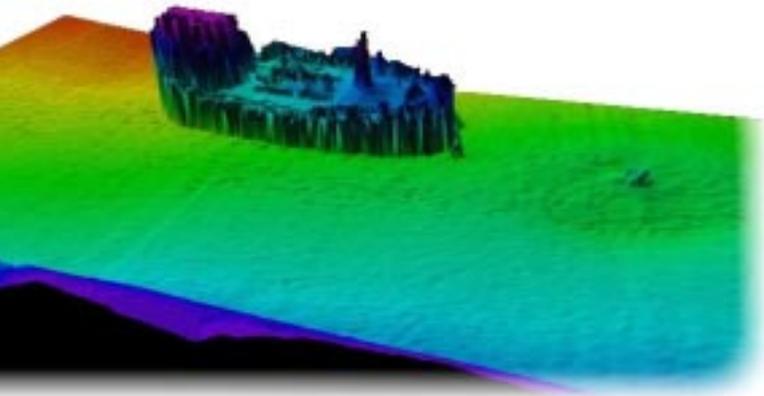
Since its inception in 1976, Reson has grown from a national transducer supplier to a global, multidisciplinary systems house.

Today, Reson offers complete sonar solutions: multibeam echo sounders, single-beam echo sounders, data acquisition and presentation software, transducers, hydrophones and high-power ultrasonics for offshore surveying, dredging, cable laying and naval surveillance.



Aquadyne has represented Reson in Norway since 1998

The ability of the corporation to develop leading-edge products and undertake complex systems engineering projects from conception through development, deployment, and maintenance is built on 20 years experience and a highly skilled staff.



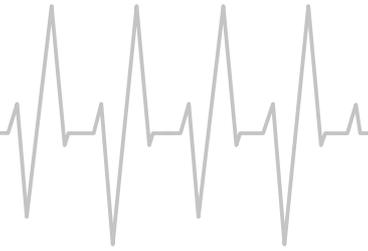
Thirty percent of Reson's staff are degreed engineers specialized in fields including Mathematics, Electronics, Mechanics, Physics, Materials, Signal Processing and Software.



Within Reson's main application areas, a range of core technologies have been identified and are continually developed. These include:

- Acoustic propagation and backscatter modelling
- Finite element modelling
- Low power, low noise, high-density analogue signal conditioning
- Data acquisition and high-speed telemetry
- Massively parallel signal processing hardware and firmware
- High-speed image processing
- Cross-platform compatible applications software
- System interfacing and integration





Motion Sensors

VT TSS also produces a range of motion sensors designed to enable highly productive surveys aboard small or large vessels in varying sea conditions. Whether the application is single-beam or multi-beam, TSS motion sensors are proven to negate the errors usually associated with motion and to enable surveys that meet or exceed IHO standards.

VT TSS Ltd is committed to developing and delivering leading edge motion sensing, underwater detection and marine navigation solutions to the dynamic marine, offshore and commercial shipping markets.

Other applications include dynamic position, hull stress monitoring, crane de-rating and helideck motion monitoring.

Its products are widely recognised as the industry standard in their industry sectors. Training, installation, calibration and maintenance services and support is available on all products.



Aquadyne has represented VT TSS in Norway since 2000



Detection Systems

VT TSS produces a world-leading range of underwater pipe and cable location and tracking equipment used in the oil and gas and telecommunications industries. These systems can be fitted to ROVs and, when interfaced with suitable navigation packages, provide the precise location and depth of burial for pipes and cables.

Navigation

The S G Brown brand name is recognised world-wide for the supply of marine gyrocompasses and has almost 100 years experience in this specialist area. The product range includes gyrocompasses for commercial marine and specialist survey applications as well as repeaters, azimuth circles and compass comparators.



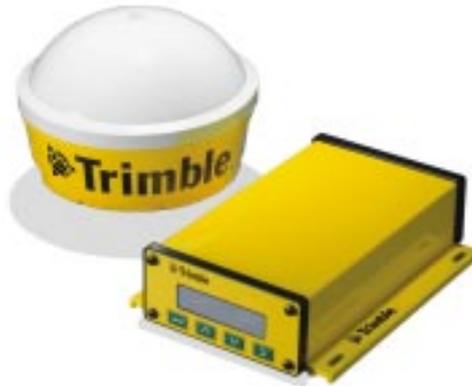


Trimble is a leading innovator of advanced positioning products, services and solutions.

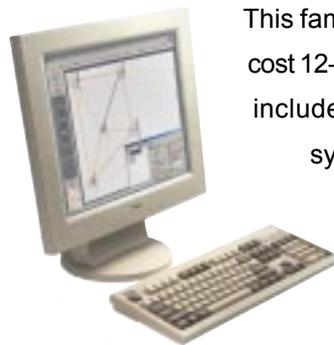
The company's product portfolio includes GPS, laser, optical and inertial technologies. These products and services enable users to achieve greater productivity, convenience and safety.

Trimble's worldwide presence and unique capabilities position the company for growth in emerging applications including surveying, automobile navigation, machine guidance, asset tracking, wireless platforms and telecommunications infrastructure.

The company's products are known for their innovation and reliability in extreme operating conditions and as such, the offshore oil and gas industry relies on Trimble systems for exploration, drilling, production and transportation.



The DSM™ 132 product family, for example, provides sub meter positioning for professional marine applications, including dredging, marine survey and high-speed vessel positioning.



This family of integrated, low-cost 12-channel GPS receivers includes three stand-alone systems and one reference station system. All DSM™ 132 product family receivers include Trimble's most advanced technology for achieving sub-meter position.

This technology ensures high performance even in environments where GPS availability and accuracy are sometimes a problem.

Aquadyne has represented Trimble Navigation Europe in Norway since 2001



Trimble and the Globe & Triangle logo are trademarks of Trimble Navigation Limited registered in the United States Patent and Trademark Office and other countries. All other trademarks are the property of their respective owners.





Founded in 1999 by a team of leading engineers, Innomar Technologie GmbH works in the field of development, production and application of efficient underwater acoustic systems.



Included in the services provided by Innomar are:

- The development, production, sale and employment of underwater acoustic systems and marine electronics
- Complex service and solutions for worldwide measurement surveys
- Development of user specific software for data post processing and general signal processing
- Advice and opinions on problems and tasks concerning underwater acoustics

The company's products include a range of sediment echo sounders that use parametric acoustic signal technology to offer excellent resolution even at low frequencies. When used in combination with a motion sensor, the system can provide correction for the ship's movement and so improve the accuracy of the survey.

Application for Innomar's products include:

- Marine exploration and investigations
- Geological and geophysical explorations
- Route Surveys for pipeline and cable laying
- Detection of fluid mud and sediment structures for dredging tasks
- Search for mineral resources
- Inshore surveys; gravel pits, harbour basins, flood gates and shore zones
- Archaeological investigations for wrecks, historical buildings and settlements



Aquadyne has represented Innomar Technologie GmbH in Norway since December 2002



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