

SUBSEA TECHNOLOGY

MARINE ROBOTICS TRACK, IMAGE NAVIGATE, CONTROL

POSITIONING NAVIGATION COMMUNICATION MONITORING IMAGING

OUR COMPANY

WE TRACK, WE NAVIGATE, WE IMAGE, WE CONTROL.

REMOTE, RESIDENT, AUTONOMOUS OR HYBRID. HOWEVER YOUR UNMANNED SURFACE OR UNDERWATER ROBOTIC PLATFORM IS CONFIGURED, ENSURE EACH AND EVERY MISSION IS A SUCCESS BY EQUIPPING IT WITH SONARDYNE. OUR ACOUSTIC, SONAR, INERTIAL AND OPTICAL TECHNOLOGIES ARE THE PREFERRED CHOICE OF VEHICLE MANUFACTURERS, COMMERCIAL ORGANISATIONS, RESEARCH ORGANISATIONS AND THE MILITARY. WHY? BECAUSE THEY EXTEND OPERATIONAL CAPABILITY, CAN BE ADAPTED TO MEET ANY NEED, AND COME WITH THE BACKING OF OUR GLOBAL SUPPORT NETWORK.

GOING DEEPER, DOING MORE

Unmanned robotic platforms open the door to new possibilities across all marine sectors. Tethered Remotely Operated Vehicles (ROVs) allow offshore oil and gas fields to be safely and economically constructed. And with the advent of resident vehicles that live permanently on the seafloor, maintaining and servicing critical seafloor infrastructure can now be controlled from onshore control rooms located anywhere in the world.

Autonomous Underwater Vehicles (AUVs) carry out multi-faceted missions considered too dangerous, too remote or too deep for divers, towfish and ROVs. They're used to explore, map and monitor our oceans and when used in co-operation with Unmanned Surface Vehicles (USVs), provide surveyors, scientists and the military with a valuable force multiplier.

ONE SIZE DOESN'T FIT ALL

Each day, marine robotic platforms are becoming more useful, more reliable and more capable. However, one size doesn't fit all and that's why our subsea technologies have been designed to be compatible with vehicles of all sizes and capabilities; from micro AUVs to extra-large AUVs, and everything in between.

FIT FOR PURPOSE

Whether operating on the surface or down at 4,000 metres, one challenge all robotic platforms must overcome is the extreme operating environment. As an equipment manufacturer, we share this challenge.

Our subsea instruments are engineered to withstand the enormous pressures of the deepest oceans; our digital wideband communication signals can penetrate hostile acoustic environments to transfer your data quickly and reliably; and our low power electronics make the most economical use of the available on-board power.

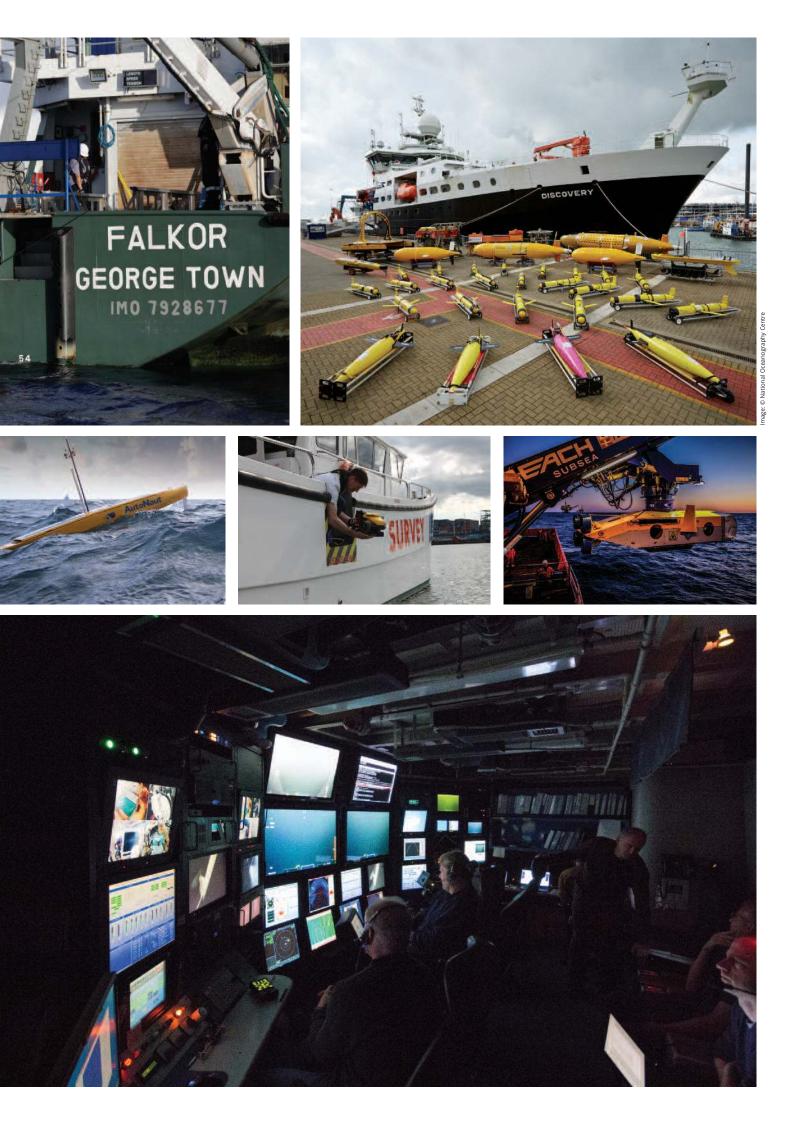
Where off-the-shelf solutions need customising to meet specific space, weight, depth and functionality demands, we have the in-house capabilities to design, test and manufacture solutions that meet your needs on time, and on budget.



WHY INVEST IN SONARDYNE?

- Our track record spans more than 45 years and hundreds of successful installations
- Our technologies extend the operational capabilities of all types of marine robotic platform including AUVs, ROVs and USVs
- We deliver standard or custom engineered solutions on time and budget
- We offer global support to your business, engineers, crew, scientists and mission specialists
- Our company is committed to maintaining a safe, healthy and sustainable working environment, with a goal of zero harm





TRACKING

RANGER 2 MINI-RANGER 2 HPT AND TRANSPONDERS

THE SIMPLEST WAY TO ADD VALUE TO YOUR MARINE OPERATIONS IS TO ENSURE YOU KNOW WHERE YOUR UNDERWATER ROBOTIC PLATFORM IS AT ALL TIMES. AND THE SIMPLEST WAY TO DO THIS IS WITH OUR ULTRA-SHORT BASELINE (USBL) TARGET TRACKING TECHNOLOGY. THE HARDWARE YOU'LL NEED IS EASY TO INSTALL AND USE, AND THANKS TO OUR DIGITAL WIDEBAND SIGNAL TECHNOLOGY, IT WILL WORK RELIABLY IN ALL OPERATING ENVIRONMENTS – SHALLOW OR DEEP.

RANGER 2 AND MINI-RANGER 2

No matter if your robots operate just off the coast or far from shore, Ranger 2 and Mini-Ranger 2 USBL systems provide you with the capability to know exactly where they are relative to your vessel's or USV's position. Sail to a location, fit a transponder, deploy your vehicle and track it; our USBLs are fast, precise and efficient, meaning that your survey operations will be as well.

Mini-Ranger 2 has an operating range of 995 metres (extendable to 4,000 metres) and is ideal for temporary installation on small vessel boats of the type used to deploy micro and man-portable AUVs. Ranger 2 can track ROVs, AUVs, manned submersibles and towed platforms to beyond 7,000 metres and has the added capability of providing position reference data for your ship's dynamic positioning system if it's fitted with one.

HPT – MORE THAN JUST A USBL TRANSCEIVER

USBL systems typically use a surface-deployed transceiver to measure the range and bearing to your robot. Ours is called HPT and is available in a range of different array designs to suit your vessel, operating environment and task in hand. You can install them permanently through your ship's hull, temporarily over-the-side, or even from a USV to allow over-the-horizon operations using a mother vessel. HPTs can also be used as wireless modems for retrieving data as well as supporting complex survey operations.

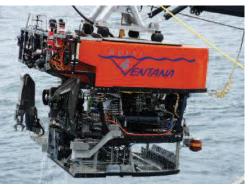
NANO, WSM 6+ AND WMT. SMALL BUT CAPABLE

Payload is a crucial consideration for any robotics mission so it's important to fit the right USBL transponder. Nano is our smallest ever 6G-enabled (sixth generation) transponder measuring just 155 millimetres long and weighing in at 200 grams in water. It's perfect for small AUVs and micro ROVs operating down to 500 metres.

With a rechargeable battery, responder mode, choice of transducers and depth ratings to 4,000 metres, WSM 6+ represents a step up in capability. It's a popular choice for Work-class ROV and intervention AUVs.

Completing the line-up is WMT; a high power transponder with depth options to 7,000 metres and a remote transducer to simplify installation.



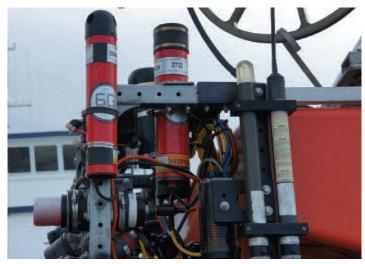


WHY INVEST IN SONARDYNE USBL TRACKING TECHNOLOGY?

- Ranger USBL systems are fast, precise and efficient, saving you time and money
- Underwater vehicles can be tracked beyond 7,000 metres
- Wide range of deployment options to suit your operation and vessel
- Extensive choice of small, lightweight and versatile transponders for use on any vehicle











POSITIONING

FUSION 6G ROVNAV 6 MINI-ROVNAV 6

IF YOUR ROV OR AUV NEEDS TO WORK IN A LOCAL SEABED REFERENCE FRAME, THE MOST EFFECTIVE METHOD IS TO USE OUR LONG BASELINE (LBL) ACOUSTIC POSITIONING SOLUTION – FUSION 6G. EQUIPPED WITH AN ON-BOARD ACOUSTIC TRANSCEIVER, A VEHICLE CAN AUTONOMOUSLY AND PRECISELY MANOEUVRE WITHIN A NETWORK OF TRANSPONDERS PLACED ON THE SEABED, CALCULATING ITS LOCATION TO WITHIN A FEW MILLIMETRES. NO SURPRISE THEN FUSION 6G IS CHOSEN TO SUPPORT COMMERCIAL AND SCIENTIFIC TASKS FROM SIMPLE TO COMPLEX.

TRIED AND TESTED

Fusion 6G is the result of nearly four decades of development. Over this time, the evolution of best practice techniques, low-power electronics and digital signal processing delivers exceptional positioning performance for underwater vehicles operating within offshore construction, survey, asset monitoring, intervention, science and salvage.

Multi-user functionality supports the concept of robotic swarms where multiple vehicles are able to operate in close proximity to each other without the risk of acoustic signal interference.

VEHICLE TRANSCEIVERS

Designed for large, tethered vehicles, ROVNav 6 is a high power acoustic transceiver for commanding and ranging to seabed transponder networks. Our exclusive Wideband 2 signal processing offers outstanding performance in challenging conditions such as on noisy vehicles or in multipath environments. It is also a fully functioning USBL responder or transponder, enabling emergency vehicle location in the event of umbilical failure.

The Mini-ROVNav 6 transceiver is significantly lighter and smaller than a standard ROVNav 6, whilst providing full 6G LBL capabilities. The 3,000 metre rated unit incorporates a built-in omni-directional acoustic transducer. This, together with its small size, offers the freedom to fit the unit where line of sight with LBL transponder arrays can be best maintained; at the front, at the back or even underneath the vehicle. And when it comes to communications capabilities, a ROVNav can also be used for data harvesting.



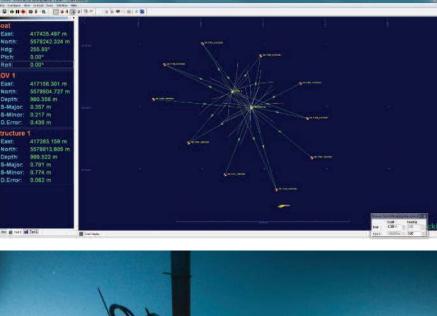
WHY FUSION 6G IS RIGHT FOR YOUR VEHICLE OPERATIONS

- Provides you with millimetric precision, independent of depth
- Low-power electronics and digital signal processing delivers exceptional positioning performance
- It can communicate to and position swarms of vehicles, all at the same time, without interference
- The low-risk industry standard
- Compatible with INS and Syrinx DVL technology to extend capability and improve vehicle control



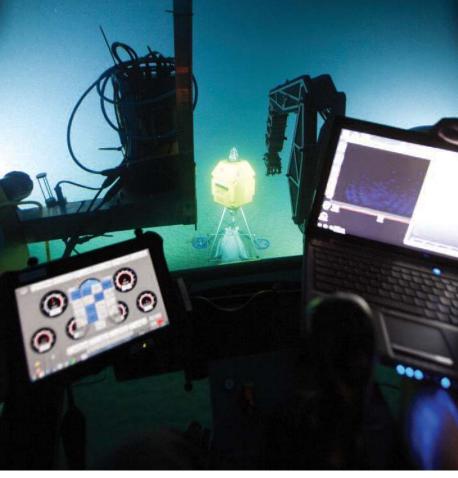






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ALL-IN-ONE FUNCTIONALITY

AVTRAK 6 OEM AVTRAK 6 AND OEM NANO AVTRAK 6

AUVS USE AN INERTIAL NAVIGATION SYSTEM (INS), AIDED BY A DOPPLER VELOCITY LOG (DVL), TO CONTINUOUSLY WORK OUT THEIR POSITION. HOWEVER, OVER TIME, THE ESTIMATED POSITION OF THE INS SYSTEM 'DRIFTS' AS SMALL DEAD-RECKONING ERRORS ACCUMULATE. PROVIDING USBL AND LBL ACOUSTIC POSITION UPDATES TO THE AUV CAN MITIGATE THIS EFFECT – AND THAT'S WHERE AVTRAK EXCELS. ITS ONE OF THE MOST VERSATILE INSTRUMENTS YOU COULD FIT TO YOUR AUV.

LBL, USBL AND COMMUNICATIONS

All models of AvTrak 6 are 6G compatible so not only can they measure ranges to LBL transponders with great precision, they can also exchange data within each range update cycle. This means you can track your AUV over thousands of metres of depth and also let the AUV's INS computer know where it is. This can be done in single cycle updates.

The AvTrak 6 family has been designed with ease of integration in mind and it's a popular choice for many AUV designers and manufacturers. Open interfaces and protocols, access to raw 6G and Wideband 2 ranging and data exchange capabilities means that AUVs can now communicate with surface vessels, transponders on the seabed and other AUVs. With AvTrak 6, AUVs can alter mission plans, provide health status updates and even share mission goals with other AUVs and other underwater platforms operating nearby.

MODEL CHOICES

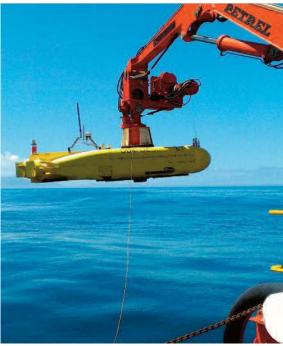
Small AUVs need small instruments and they don't get much smaller than OEM Nano AvTrak 6 – it measures just 88 millimetres by 56 millimetres. A remote transducer gives you the flexibility to mount it anywhere, whilst the li-ion battery gives you 10 days standby life to help you recover the vehicle if it's lost.

For large vehicles (12 inches and above), we recommend standard AvTrak 6 which is available in depth rating to 7,000 metres or in OEM form (no housing) for easy integration within your own electronics pressure housing.

IT COMES WITH SUPPORT

An Interface Control Document (ICD) enables your engineers to quickly talk AvTrak's language and integrate it into any vehicle. We're flexible and will often adapt functions to your particular needs; our engineers are available to help.





WHY AVTRAK IS RIGHT FOR YOUR AUV

- 3-in-1 instrument; USBL transponder, LBL transceiver and bi-directional communication modem
- Three models available including OEM to suit all vehicle types
- Low power and easy to install
- Emergency relocation mode
- Depth options to 7,000 metres





Transducer and PCB shown actual size (56 millimetres x 88 millimetres











NAVIGATION

LODESTAR AHRS SPRINT INS SYRINX DVL

THE QUALITY OF THE NAVIGATION SOLUTION IS FUNDAMENTAL TO ANY OPERATION INVOLVING UNDERWATER ROBOTIC PLATFORMS. 'KNOWING WHERE YOU ARE' ALLOWS AN ROV TO PRECISELY HOLD STATION WHILST PERFORMING COMPLEX TASKS OR AN AUV TO REMAIN ON COURSE TO ITS DESTINATION OVER MANY KILOMETRES TRAVELLED. AND THE MORE RELIABLY AND PRECISELY YOU NAVIGATE, THE MORE EFFECTIVE YOUR VEHICLE, AND THE PAYLOAD SENSORS FITTED TO IT, WILL BE. WE SUPPLY EVERYTHING YOU NEED; ATTITUDE HEADING REFERENCE SYSTEM (AHRS), DOPPLER VELOCITY LOG (DVL) AND THE INERTIAL NAVIGATION SYSTEM (INS).

LODESTAR AHRS

With a track record spanning 10 years, our Lodestar AHRS has now evolved into its 3rd generation to meet the needs of subsea vehicle applications such as mid-water station keeping.

A 4,000 metre rated titanium housing comes as standard, along with a choice of performance levels, on-board data and power backup, fast settling time and a range of endcaps and connectors to make vehicle integration simple.

SYRINX DVL

Syrinx is a 600 kHz DVL which operates at altitudes comparable to a 300 kHz DVL, with the high resolution performance of a 1200 kHz DVL. It's designed to meet the needs of most surface and subsea vehicles that require high integrity, high performance navigation aiding over a wide range of depths and seabed types.

Out of the box Syrinx is depth rated to 4,000 metres, but is available in both deeper and shallower rated variants (including OEM housing) to suit the requirements of your vehicle. Easy to install and simple to integrate on Work-class ROVs and AUVs, Syrinx benefits from dual serial and Ethernet outputs, water blocked and replaceable transducers and because it's made in the UK, it's easy to export.

SPRINT INS

SPRINT improves the speed and efficiency of ROV and AUV operations with high quality inertial measurements aided by your vehicle's DVL, pressure sensor, USBL or LBL acoustic system – even if it's from another vendor.

Available in multiple performance levels to support simple to complex operational scenarios, SPRINT shares the same hardware platform as Lodestar enabling you to upgrade capability in the field and in line with your operational needs. The OEM version is perfect for AUVs with restricted payload space.

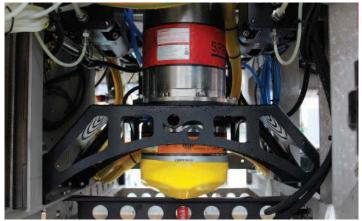
SPRINT is also available with an integrated DVL – called SPRINT-Nav. It's one of the smallest inertial DVL instruments available on the market for ROVs and AUVs. Mechanical alignment of the sensors improves the overall navigation performance and ensures a rapid and simple mobilisation. And thanks to the tight beam-level aiding from SPRINT, it can continue to operate even if one or two DVL beams are unavailable.













WHY CHOOSE LODESTAR, SPRINT INS AND SYRINX DVL?

- Low-risk and proven; track record exceeding 10 years
- All from one manufacturer; acoustics, DVL and INS
- Lodestar and SPRINT built around high-grade Honeywell RLGs
- Delivers unprecedented levels of performance for ROV and AUV guidance and survey
- Syrinx is made in the UK for easy export



IMAGING

SOLSTICE SPRINT-MAPPER

UNMANNED PLATFORMS ARE ONLY AS VALUABLE AS THE DATA THAT THEY ARE ABLE TO GATHER SO ONCE YOU KNOW WHERE YOUR ROBOT IS, THE NEXT CHALLENGE IS TO EQUIP IT WITH THE CAPABILITY TO UNDERSTAND ITS ENVIRONMENT. TOP OF MANY USERS' PAYLOAD REQUIREMENTS IS IMAGING, AS A PICTURE INFORMS OPERATIONAL DECISIONS AND ACTIONS. WE OFFER TWO WAYS TO HELP; ULTRA-HIGH DEFINITION SONAR IMAGING AND DYNAMIC MOBILE MAPPING.

SOLSTICE MULTI APERTURE SONAR

Solstice is a Multi Aperture Sonar (MAS) that uses the input from 32 elements to dynamically focus along the whole length of the 200 metre swath. Its compact design is suitable for low logistic platforms. By using multiple apertures, the data is further enhanced and the Signal-to-Noise Ratio (SNR) is improved. The process generates narrow along-track beams and at 18 watts, it places very little drain on a vehicle's power budget. Solstice's bathy data is co-registered onto the same pixel grid as the side scan imagery, and therefore can produce stunning digital terrain maps, with the side scan imagery accurately draped over the bottom topography, suitable for Hydrography and Mine Counter-Measures (MCM).

In addition, Solstice's on-board processing produces geo-coded side-scan imagery which is available for on-board Computer Aided Detection and Classification (CAD/CAC) and Automatic Target Recognition (ATR). The output data files are compatible with leading Post-Mission Analysis (PMA) software packages.

SPRINT-MAPPER DYNAMIC MAPPING

Advances in underwater laser, LiDAR and multi-beam technologies means it's now possible for an ROV (or manned submersible) to rapidly survey large areas of the seabed in unprecedented detail. Applications include; contactless metrology, archaeological site surveys, asset integrity assessments, inland waterway inspections and seabed coral/fauna mapping studies.

Working with your choice of high resolution laser, LiDAR or multi-beam, our SPRINT-Mapper technology underpins these projects with tightly integrated, acoustically-aided inertial (SPRINT) and Doppler (Syrinx) underwater navigation, together with all the equipment, planning and operational services that you need to ensure success.

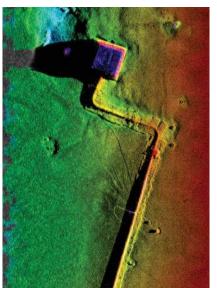
On completion of the survey, raw sensor data is post-processed using our powerful software tool – Janus. The finished navigation data is then merged with the laser/ camera, LiDAR or multi-beam data to produce a geo-referenced 3D point cloud with typical accuracies of one centimetre for single run line distances of around 20 metres.



WHY INVEST IN SOLSTICE SONAR AND SPRINT-MAPPER?

- Solstice delivers the highest quality imagery available for small AUVs
- Low power consumption extends vehicle endurance
- Tightly integrated acoustic, DVL and INS gives you the most accurate positioning data for your mapping missions
- Highly trained personnel ensure your SPRINT-Mapper project is a success, from pre-planning right through to data delivery



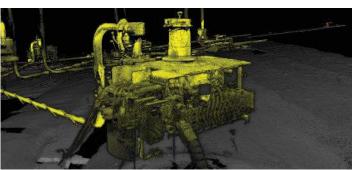






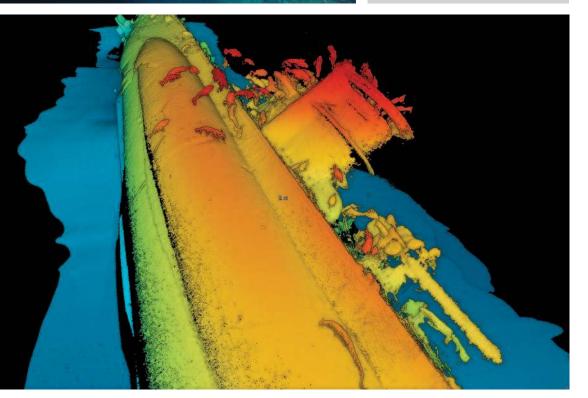












COMMUNICATIONS

SONARDYNE WIDEBAND[®] 2 & BLUECOMM

NOW YOUR ROBOTIC PLATFORM KNOWS WHERE IT IS AND THAT YOU'VE EQUIPPED IT TO GATHER DATA, THE LAST PIECE IN THE PUZZLE IS TO COMMUNICATE WITH IT. OUR HIGH INTEGRITY WIRELESS LINKS ENABLE PASSING USVS TO HARVEST STORED DATA AND TRANSMIT IT BACK TO SHORE FOR ANALYSIS, SWARMING AUVS TO WORK COLLABORATIVELY, AND A MOTHER VESSEL TO SEND MISSION UPDATES ON THE FLY.

SONARDYNE WIDEBAND[®] 2

Reliable, low-bandwidth, bi-directional communications over long distances comes as standard across our family of 6G (sixth generation) ROV transponders (WSM 6+, Nano), AUV transceivers (AvTrak 6) and surface-deployed modems and transceivers.

All 6G products use our exclusive Sonardyne Wideband[®] 2 spread spectrum digital signal processing supporting user data rates from 100 to 9000 bps. 6G is a mature, low-risk technology with a track record spanning thousands of missions from shallow to deep, quiet to noisy and on many different class of robotic platform.

With over 500 unique addresses, you can be assured that not only will you be able to reliably track, navigate and communicate with your vehicle. Your operations won't interfere with other vehicle operations that might be taking place nearby.

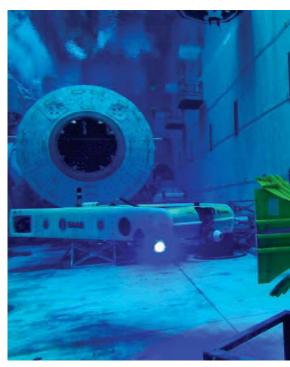
BLUECOMM

But what happens when the volume of data you need to transfer isn't just a few megabytes, but several gigabytes? In the past, harvesting large volumes of data and sending it back to base for analysis, has meant bringing your vehicle back up to the surface – wasting crucial survey time.

Our high speed optical modem, BlueComm, changes everything. Using rapidly modulated LEDs, a pair of BlueComm modems can pass incredible volumes of data (from 5 to 500 Mbps) over hundreds of metres to one another – and do it all using very little power making it ideal for self-powered platforms.

Fitted with BlueComm, an AUV can pass through an area full of data logging instruments and download their data quickly and efficiently, and an ROV can deploy a remote camera sled to provide pilots with a second perspective on seafloor operations – doing so, removes the need and significant cost of deploying a second ROV.

BlueComm is transforming the way we think about the subsea environment. Now every subsea asset can be made a 'connected' subsea asset all the way back to your office.



HOW WIDEBAND 2 AND BLUECOMM KEEP YOU CONNECTED TO YOUR ROBOT

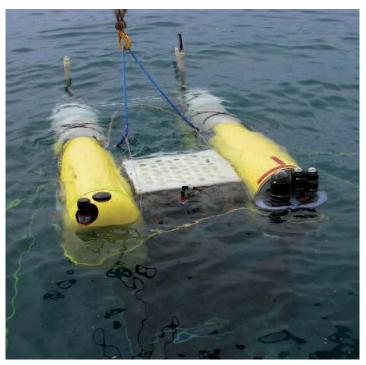
- Change mission parameters, get vehicle status information, send large volumes of sensor data
- Wideband 2 delivers fast, efficient, low-latency robust communications
- BlueComm can transfer data wirelessly up to 500 Mbps speeding up the time it takes to harvest data
- Can also be used to stream live video and undertake tetherless vehicle control















MARINE ROBOTIC SYSTEMS



TRACKING> RANGER 2 / MINI RANGER 2

When you need to invest in Ultra-Short BaseLine (USBL) acoustic technology to support your underwater operations, Ranger 2 and Mini-Ranger 2 has the performance you need, at the investment level you can afford to track your ROVs and AUVs in any situation.



- Simple and intuitive software
- Tracks multiple underwater robots simultaneously
- Fast position update rates
- Easy to install and configure
 Global record of success on all types of vessel
- Support available globally 24/7



POSITIONING> FUSION 6G

Fusion 6G[®] continues to be the world's most popular Long BaseLine (LBL) acoustic positioning system by providing the most accurate method for positioning underwater vehicles within a seabed reference frame.



- Millimetre precision independent of water depth
- Low risk and proven; the industry standard for survey and construction
- Can be scaled to suit any project, large or small
- Recommended for multi-user scenarios



MULTI-FUNCTION> AVTRAK 6

With AvTrak 6, AUVs can alter mission plans, provide health status updates and even share mission goals with other AUVs and other underwater platforms operating nearby. It is also compatible with the Sonardyne 6G systems fitted to many vehicles and ships across the oceans.



 3-in-1 instrument; USBL transponder, LBL transceiver and two-way acoustic modem
 Models to suit all vehicles

- Low power and easy to install
- Emergency relocation mode
- Depth options to 7,000 metres



NAVIGATION> LODESTAR AHRS/ SPRINT INS

With a track record spanning 10 years in survey, dynamic positioning and vessel applications, our Lodestar AHRS and SPRINT INS range has now evolved into its third generation to meet the needs of any subsea application.



DVLs in a single, easy to install navigation instrument.

NAVIGATION> SYRINX DVL

Syrinx is a 600 kHz Doppler Velocity Log (DVL) for surface and subsea vehicles. It combines the high altitude, high resolution features of 300 kHz and 1200 kHz



- Class-leading precision
- Easy to set up and use
- Reliable and adaptive bottom lock

Developed for complex survey and

• Small, lightweight and easy to install • Multiple performance levels •Fast settling time so you can get

vehicle guidance

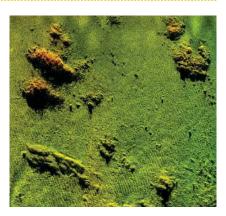
straight to work • OEM options available • Honeywell gyros inside

- Replaceable transducers
- Water-blocked transducer array
 OEM options available

IMAGING> SOLSTICE / SPRINT MAPPER

Solstice provides ultra-high resolution imagery with low power consumption for AUV operations. SPRINT-Mapper offers dynamic centimetric-level navigation with fast update rates to enable high-tempo subsea mobile mapping projects.

- Multi Aperture Sonar suitable for low-logistic AUVs
- Suitable for Search, Classify and Map (SCM) operations
- Sprint-Mapper built around lowrisk, field-proven technologies
 High levels of QC and redundancy from INS, DVL and acoustics



COMMUNICATIONS> WIDEBAND® 2/ BLUECOMM

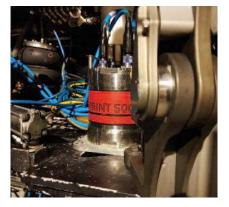
Wideband[®] 2 acoustics track, navigate and communicate with your vehicle whilst BlueComm optical modems deliver fast and efficient data recovery via AUV, ROV or USV deployed dunker.



- Wideband[®] 2 delivers robust performance in all environments
 Reliable, low-bandwidth, bi-directional communications
- BlueComm is highly energy efficient
- Up to 500 Mbps data rate • Compatible with subsea Ethernet
- networks







SUPPORT

WE DESIGN, WE ENGINEER, WE INTEGRATE.

WITH HUNDREDS OF INSTRUMENTS SUCCESSFULLY DELIVERED AND INSTALLED, WE HAVE THE EXPERIENCE TO WORK SIDE-BY-SIDE WITH YOUR ENGINEERS, SCIENTISTS, VESSEL CREW AND PLATFORM OPERATORS TO MAKE INVESTING IN, AND INTEGRATING SONARDYNE TECHNOLOGY ON YOUR MARINE ROBOTIC PLATFORM STRAIGHT-FORWARD AND SIMPLE. IT'S ALL PART OF THE SERVICE THAT HELPS LOWER YOUR OPERATIONAL RISK, SPEED UP YOUR SUBSEA PROJECTS AND KEEP OPERATIONAL DOWNTIME TO A MINIMUM.



EXPERT ADVICE

Our long-term partnership with clients has enabled us to develop a unique and extensive insight into the diverse nature of marine robotic operations and the associated commercial and operational pressures. We understand that the technology investment decisions you take today, will affect your unmanned operational capability for years to come so they need to be right.

That's why you can trust our global commercial and technical teams to give you expert advice on which Sonardyne system is best for you, how to finance it (now including lease and rental options), where and how it should be installed, what customisation it may need, and the typical performance you can expect to see based on how and where you'll be using it.

OPERATOR TRAINING

Once you become a Sonardyne client, you gain automatic access to our customer care programme. A dedicated email helpline connects you to product engineers ready to answer your questions but if it's more urgent, our 24 hour worldwide telephone helpline is standing by ready to resolve any operational issues you're facing.

Of course, the best way to ensure your equipment always performs as it should is to service it regularly. Book an annual service visit, and one of our field engineers will inspect the health of your vessel and vehicle's Sonardyne technology, including updating software and firmware and inspecting through-hull deployment machines to make sure regular checks are being carried out.





















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