

WATER Line

News from Atlantas Marine

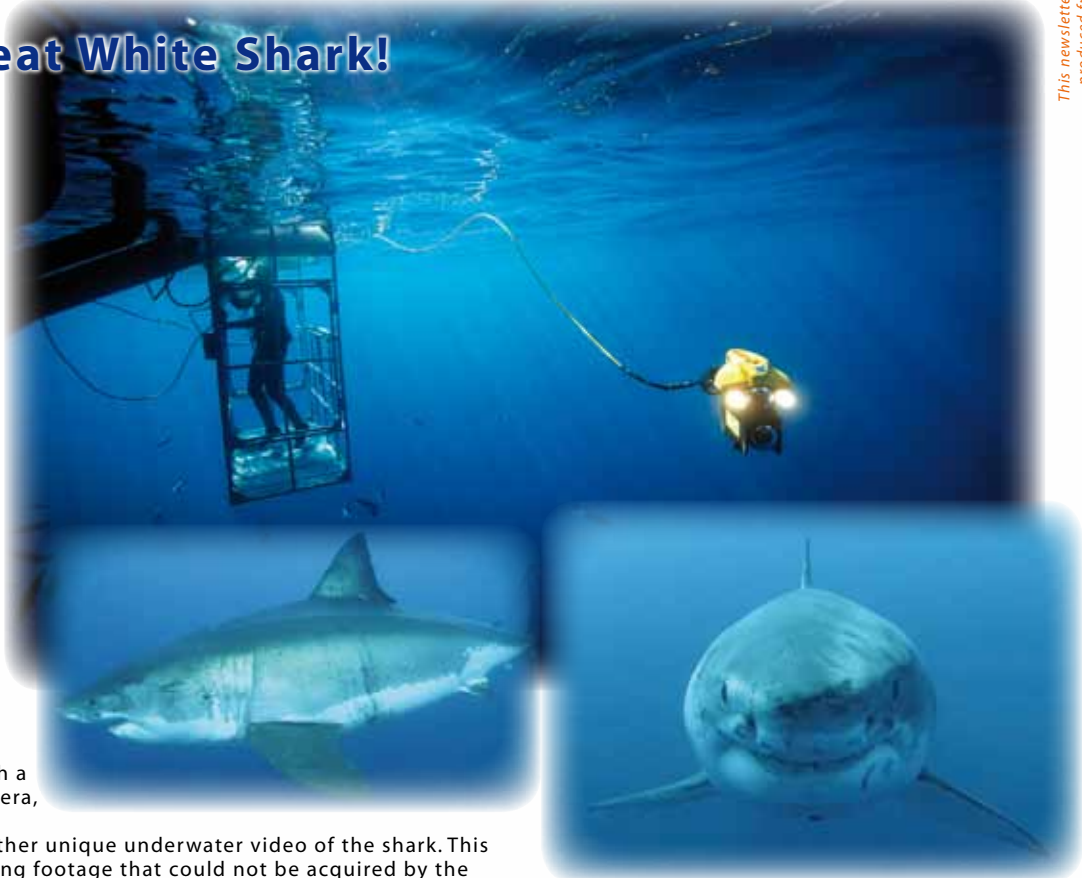
Expedition Great White Shark!

The Great White Shark is nature's most perfect predator. The ocean's most iconic animal has always been the subject of massive media interest, extensive scientific study and intense fear. When the National Geographic Channel decided to feature the Great White, they required the world's leading underwater inspection equipment - the VideoRay Pro 4 HD. The program documents a unique process where the sharks are hooked and brought aboard a vessel to perform a number of scientific procedures including satellite tagging. The ultimate goal is basic - to learn more about the social interaction, behavioural structure, and breeding patterns of this species that has been swimming the world's oceans for approximately 16 million years.

The VideoRay Pro 4 ROV fitted with a custom High Definition video camera, was deployed from the M/V Ocean in Guadalupe Island, Mexico to gather unique underwater video of the shark. This technique was effective in gathering footage that could not be acquired by the normal method of using divers in shark cages. The HD camera allowed incredible broadcast quality video to be collected and stored locally on the ROV for download at the end of the job, whilst standard resolution video was sent up the umbilical to allow the cameraman to compose his shots. This eliminated any need for fibre optic transmissions which can be expensive and unreliable.

The Pro 4 is part of an industry-wide initiative led by VideoRay (the largest volume ROV manufacturer in the world) to go beyond separate "point" technology solutions to a "systems" approach to solving underwater tasks. The crew of the M/V Ocean found this particularly useful as they were able to focus entirely on the sharks without concern about how one component was cabled to another, or which was documented where. The Pro 4 series ROVs is sold in configurations such as the PS (Port Security Configuration) and CD (Commercial Dive Configuration) designed to solve a limitless range of underwater tasks.

See the VideoRay ROV in action in Expedition Great White - The Perfect Catch.



The Mires Mor Project gets some inspirational subsea views

The British coastline is teeming with an abundance of life that remains hidden below the waves. With the aid of the VideoRay Pro 4 ROV the crew of the sailing vessel "Ruth" are able to scour the seabed in an attempt to find some of nature's most fascinating creatures. The "Ruth" is the flagship of The Mires Mor Project. The Cornwall based project was set up to provide a comprehensive Marine Awareness Programme for disadvantaged and underprivileged people. The programme is designed to help motivate and stimulate the participants by experiencing the team environment of a traditional sailing vessel and also to explore the otherwise unseen wildlife off of the Penzance coastline.



The Mires Mor Project is capturing the breathtaking beauty of the submerged coastline and relaying video from the ROV to onboard screens. The easy to grasp control system that has made the VideoRay Pro 4 such a valuable asset to a wide variety of companies means that every member of the "Ruth's" varied crew can enjoy the feeling of exploring the seabed for themselves.

The Mires Mor Project is a Community Interest Company which means it runs as a "Not for Profit" Social Enterprise with emphasis on community welfare. For more information contact John Elliss or Diana Rodda at miresmor@btinternet.com

Atlantas **MARINE**

Atlantas Marine is proud of their extensive list of state-of-the art marine products. Working closely with our customers we use the most efficient combination of underwater equipment to achieve maximum results and substantial cost benefits on a wide range of projects.

ROV Used To Detect Explosive Risks In The Gulf Of Papua

In March 2009 the international consultancy group RPS was tasked with investigating an underwater area in southern Papua New Guinea. This site was involved in both conflict and training exercises during World War Two, and the risk of unexploded ordnance (UXO) led to a survey being commissioned in the area.

A representative from The RPS Group said: "An initial geophysical survey undertaken by our client had identified a number of anomalies that required verification. The massive expense and Health and Safety implications of deploying a dive team led our client to contact us for assistance . . . In agreement with our client, with extreme haste and at short notice, we deployed a VideoRay Pro 3 GTO ROV with BlueView P900 Sonar and Smart Tether tracking systems supplied by Atlantas Marine, to begin verification of the anomalies".

The BlueView imaging sonar allowed targets to be located quickly with the ROV for visual identification, with the Smart Tether providing a geographic reference during the search. Once the ROV survey was complete the results were combined with the research undertaken, and allowed RPS to conclude that the risk in the area was sufficiently low that no further survey or investigation was required. These operations negated the requirement for the client to deploy specialist divers and reduced the level of survey eventually undertaken, saving time and excessive costs to the development program.

Since this work has been completed, Atlantas Marine has upgraded RPS Group's ROV system to the new VideoRay Pro 4 PS300XL. This represents the cutting edge in ROV technology and offers significant improvements in power, features and portability over earlier models.



VideoRay goes Nuclear!

Nuclear fuel storage ponds are designed and used to house spent fuel from nuclear reactors. The ponds submerge the nuclear materials in water which helps to keep them cool and to provide a shield for the radiation given off. It is a caustically corrosive and hostile environment which is exceptionally difficult to monitor due to the lethally high radiation levels.

The deployment of a dive team is possible once the used fuel has been removed but is still high risk and not usually done in the UK. The environment is even capable of rendering some of the most advanced inspection equipment on the market ineffective. For these reasons the VideoRay ROV has become the industry's most successful tool for the continued inspection and monitoring of Nuclear Storage Ponds. The highly manoeuvrable vehicle gives the on-site team a clear and accurate view of what's happening below the surface, and its ease of control means that safety of the ponds can remain the teams constant focus throughout the inspection process. The high build quality and wide range of add-ons and attachments just serve to make the VideoRay the complete package for the job at hand.



Magnox South holds the contracts and licences to defuel and decommission five of the UK's historic Magnox nuclear reactor sites on behalf of the Nuclear Decommissioning Authority (NDA). In early 2009, they decided to purchase a VideoRay Pro 3 ROV from Atlantas Marine to assist them with their mammoth task. Robert Wade from Magnox South commented: "I just wanted to let you know that the VideoRay is holding up well. Approximately 145 wet hours in the PH 11.4 water, no way of telling how much radiation dose it has received but its still giving us a great picture. Around here we believe it's worth its weight in gold!" Magnox have gone on to purchase a further 3 VideoRay systems for use at nuclear sites around the UK.

The success of VideoRay in this environment has now spread across the industry, with 2 systems in use by Sellafield sites (including the new Pro 4) and 4 systems in use with British Energy.



Atlantas Marine supports "Toe In The Water"

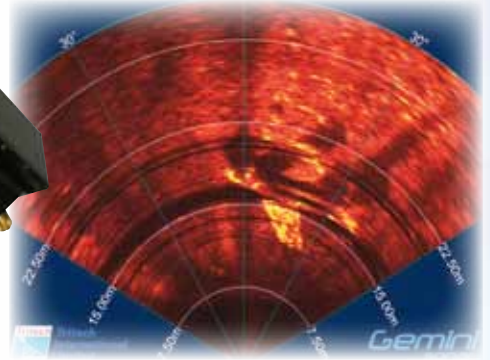
This year Atlantas Marine is very pleased to be supporting the tri-service initiative 'Toe in the Water' [TITW] which aims to re-inspire, re-engage and re-integrate injured servicemen by using competitive sailing as a vehicle to help them move beyond their injuries. TITW provides a unique opportunity for injured men and women to sail and race on equal terms with their able bodied contemporaries. The main aims of the initiative are achieved by utilising volunteer racing sailors from all three services and the civilian community to sail alongside the injured servicemen in regattas around the UK. Toe in the Water receives no statutory funding and relies entirely on voluntary contributions from individuals, trusts and companies. For information on the Charity visit www.toeinthewater.org

NEW PRODUCTS

Supplying quality products has always been an important part of Atlantis Marine's success. With the VideoRay ROV as our core product, new sensors and attachments are constantly being developed to ensure that our solutions remain the most versatile on the market. The last year has seen some dramatic steps forward in underwater detection including:

Gemini 720i Multibeam Imaging Sonar

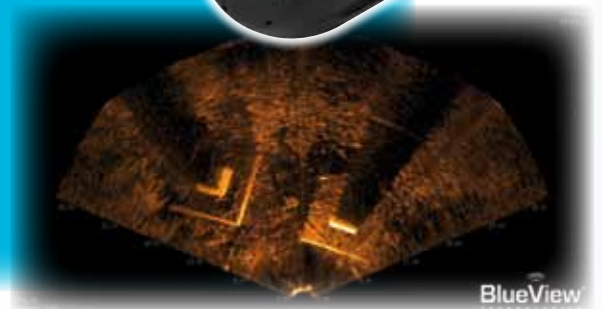
Tritech's new Gemini 720i sets new standards for multibeam imaging sonars. It offers a compact real-time high frequency imaging solution, weighs just over 1kg in water and is designed to be easily installed onto a variety of underwater vehicles and platforms. With a 720kHz operating frequency, and state of the art processing electronics, Gemini 720i produces images of superb clarity with the added benefit of real-time imaging. The 120° sonar coverage gives the operator a very impressive field of view that can be simply interfaced via Ethernet or, for vehicles without fibre optics, through an integrated VDSL connection. At the surface, data from Gemini 720i can be displayed using Trittech's intuitive Seanet Pro, or Gemini's standalone software. A software development kit is also available for autonomous vehicle operations.



BlueView P900 Sonar Goes Wide

The Blueview P900 sonar range has now been expanded with a new wide-angle field of view. The three models operate at 45°, 90°, and 130° allowing wider area coverage when performing seabed searches. The new series also features a greater 100m range, 1000m depth rating and improved image quality without sacrificing the low size and weight which made the original sonar so popular. At 900 kHz, the P900 series is the ideal sonar for underwater detection and identification operations, particularly in low or zero visibility conditions. Incorporating both mid-range detection and close-range identification the Proviewer is capable of working effectively from either moving or stationary platforms.

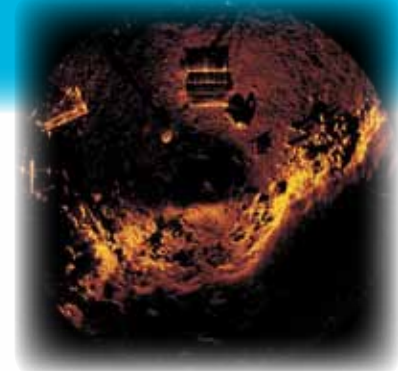
The excellent image quality and update rate of BlueView sonars has led to the P900-90 being included as standard equipment with the VideoRay PS300XL Port Security package.



Hammerhead Sonar

Always at the forefront of new technology Atlantis Marine is proud to be the supplier of Trittech's incredibly advanced SeaKing Family of sonar equipment. The latest and greatest of which is the new Hammerhead Sonar DST (Digital Sonar Technology). Taking everything Trittech have learnt over the years the new imaging sonar is light years ahead of anything else on the market, boasting a wide array of functions as standard.

In all subsea inspection clarity of image is essential. The Trittech Hammerhead can create higher resolution imagery than comparative mechanical scanning imaging sonars by utilising a large transducer aperture and proven Digital Sonar Technology. To ensure the highest resolution possible the unit also utilises two frequencies of operation: A high 935 kHz frequency to enable high resolution imagery, and a second lower frequency of 675 kHz to allow for long range capability. In addition to the clear images the Hammerhead is also exceptionally user friendly with a built in altitude sensor and an integrated three axis compass, these make the unit ideal for tripod deployment, giving the user a clear indication as to the position of the unit relative to the seabed and allow the sonar image bearing to be continually displayed and updated.



Commenting on the launch, Trittech's Product Line Manager for Imaging Sonars, Ben Grant, said:

"The Hammerhead sonar is at the forefront of scanning sonar technology, and is an ideal addition to the well established SeaKing range. The high operational frequency, combined with a wide transducer aperture, makes this the sonar of choice for any application requiring the highest possible resolution of imagery."

We specialise in offering good advice and training, continued maintenance, repair and after sales support.

Advice and Consultancy

The emphasis throughout Atlantás Marine is on providing a first-class personal service to our customers whilst providing them with the ROV solution that meets their individual needs. We don't expect anyone to make the decision to purchase any ROV product without first seeking our help and advice. As well as helping you choose the right solution we will show you how. Providing demonstrations is a key part of our service to you.

Maintenance and Repair

One of the most important factors to consider when selecting an ROV is the customer service and technical support you will receive throughout the life of the product. All of the ROVs we supply are well known for reliability but, as with all products, there will always be the need to have periodic maintenance and service. It is our aim at Atlantás Marine to resolve any issue quickly by providing you with all the support and after service necessary. Our staff have detailed knowledge of all our underwater products built up from the last 10 years from supplying and supporting over 100 ROVs.

Atlantás Support Manager, Mike Underwood said "Customer service is very important to us. We want all our customers to feel confident that if they are out on a job and have a technical query they can quickly talk to somebody with technical knowledge. For problems that can't be solved over the phone, the warranty we supply with the VideoRay is unlike anything else in the industry. All VideoRay's are covered for 2 years, and there are no hidden costs for the customer – we even cover all the shipping charges both ways."

Training

We offer full **operational training** on our range of ROVs, sonars and other accessories. The content and duration of our courses are tailored to your specific needs and will depend on your operational requirements. We are able to hold courses at a location of your choice, or alternatively they can be held at a diving quarry local to our office.

We also offer various levels of **maintenance training** to suit a range of skill levels. At the most advanced level the operator will have the ability to completely strip down and rebuild the vehicle, and troubleshoot the system. This allows customers who operate in remote environments to have total confidence of using any spares purchased to keep their system in good condition and full working order.

UKVC'10 - Another Great Success!!

The UKVC'10 VideoRay conference organised by Atlantás Marine took place at the stunning Combe Grove Manor Hotel near Bath with all the in-water activities taking place at Vobster Quay, the local dive centre. The two day event was attended by over 30 delegates from a wide range of different industries. They enjoyed a diverse range of presentations by industry experts, manufactures and users together with in-water demonstrations and the opportunity to 'test drive' the latest technology.

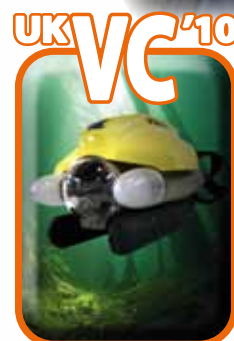


Group photo at vobster quay ▲



Charlie Foll with Colin Greenall from Titan Salvage

Charlie Foll presenting Dennis Knox with the award for winning the UKVC'10 speed trials ▼



"Great opportunity to put faces to names and to see the wide field of uses of your products. Thank you for offering us the opportunity to speak to share some of our experiences, and I hope people got something from it as we did from others. We look forward to the next UKVC event."

Jeff & John
Tyne & Wear Marine Ltd

Atlantás Marine is VideoRay's authorised Service Centre for the UK. We are able to carry out any necessary ROV service, repairs, maintenance, and sensor integration in-house. We also carry a large stock of spares for VideoRay products. This puts us in a position where we can very quickly support our customers with spare parts and, in the event that a service or repair is required, we can turn equipment round very quickly. This is very important in situations where the ROV forms a critical part of a customer's inspection capability.

We do hope you have enjoyed reading

WATERLine

Should you require any further information on any of the products, services or case studies mentioned please do give us a call on **01935 426000**



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www.atlantasmarine.com
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