

WATER Line

News from Atlantias Marine

The New VideoRay Pro 4 ROV Launched

The VideoRay PRO4 is a brand new addition to the successful range of VideoRay Remotely Operated Underwater Vehicles [ROVs] renowned for being portable, reliable, affordable and easy to use. Ideal for most underwater visual inspection tasks, they perform a wide range of uses in many industries worldwide. There is a model to suit all underwater challenges and pockets. Starting with the economy products, there is the low-cost Scout, ideal for dive clubs or sports divers and the Explorer for users who want to inspect boat hulls, the seabed, etc and need more functionality; moving up to the most popular Professional (Pro) Series which offers much more capability including significant thrust and the ability to connect sonars and sensors which enable a wide range of inspection tasks. The VideoRay Pro 4 is the latest model in the top of the line Professional series. Details of the full range can be found on our website www.atlantasmarine.com

Taking everything they have learnt from previous ROV models, VideoRay have created a more efficient and sophisticated tool for underwater surveying. The VideoRay PRO4 is the most powerful, feature-rich micro-ROV on the market. Compared to the previous model it now has a deeper depth rating, hydrodynamic improvements, brushless thrusters and much better camera and lighting. New sensors, including a 3D compass and MEMS gyro improve navigational capabilities and the primary video camera features ultra low light and Wide Dynamic Range. When coupled with the very high intensity LED lighting, the video camera can capture far clearer footage and stills – particularly in difficult lighting conditions.



VideoRay Advantage!

All VideoRay products are supplied with 2 years warranty as standard, covering any manufacturing defects. For an additional 15% of the purchase price per annum, the Advantage! programme can be purchased to cover all maintenance, repair and service costs for the VideoRay ROV, regardless of fault. This gives the customer an excellent service package for their ROV, providing peace of mind for the owner and a fixed service and maintenance cost for their budget.

◀ Charlie Foll, Atlantias Marine's Managing Director (4th from left), with UK Navy Divers, taking delivery of three sets of equipment, each comprising of:

- VideoRay Pro3 GTO
- Manipulator
- Blue View P900 Imaging Sonar
- Tritech Micronav Positioning System

We delivered the systems to them at Horsea Island in Portsmouth and gave a 2 day training course at the same time.



Award Winning

Atlantias Marine is an award winning supplier of products and services to the marine industry. Our practical, hands-on approach has seen us achieve the highest worldwide sales of VideoRay for 6 years – 2001, 2002, 2005, 2006, 2007 and 2008. More and more organisations are turning to Remotely Operated Vehicles (ROVs) to reduce underwater inspection costs and to reduce health and safety risks. Using our expertise we provide a quality and informative services. Always quick to respond to enquiries. We understand the products, the markets, and our customers [often] demanding requirements!



Atlantias **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.

The VideoRay ROV proves invaluable for surveying stricken ships

MSC Napoli

The container ship MSC Napoli was grounded off the South Devon coast during a storm in January 2007. The 900 foot vessel was carrying 2,300 containers and in great danger of causing detrimental damage to the surrounding Jurassic coastline.

UMC International PLC, based in Plymouth, were contracted to image containers and debris on the seafloor surrounding the Napoli wreck. UMC purchased a Videoray Pro 3 XEGTO with Blue View imaging sonar from Atlantas Marine to successfully complete this mission. With the aid of a Videoray ROV with BlueView Sonar targets were quickly located and classified, and the serial numbers and general condition of containers and other cargo which had fallen off the MSC Napoli during the unfortunate incident were captured with the video camera on the submersible.

When, Titan Maritime, a leading maritime salvage company, needed to assess the underwater damage of the stricken vessel they also took advantage of the Videoray technology. By using the Videoray micro ROV they were able to image the entire hull in two days with a very high level of detail.



Newflame

Another wreck where the Videoray ROV proved invaluable was on the New Flame, a Panamanian bulk-carrier cargo ship that ran aground in Gibraltar after it collided with an oil tanker in August 2007. The New Flame was carrying 27,000 tons of scrap metal and 750 tons of fuel oil. The video from Videoray indicated that the hull was damaged through the keel. This information enabled Titan Marine to properly prepare for the salvage of the New Flame. When they expressed interest in purchasing an ROV they contacted Atlantas Marine.

Mike Underwood, Atlantas Marine's Support Manager, flew out to Gibraltar with a Videoray system checked in as aircraft luggage. He spent 3 days out on Titan's barge inspecting the wreck, and at the same time training John Walsh from Titan to operate and maintain the ROV.

The currents through Gibraltar can be very strong (5 or 6 knots), so the operating times for ROVs and divers are limited to a half hour slack tide every 5 or 6 hours. Because of this it is important to make the most of the time you have in the water. The Videoray was ideal for them as it is quick and easy to setup and use. The GTO thrusters with 4 knot capability extended the dive time because it was able to cope with currents at either side of the slack tide which would be considered unsafe for divers. The Lynn image enhancer was also invaluable. The high currents stir up a lot of silt in the water making visibility very low. The Lynn T-38 dramatically improved the visibility and video quality.

The Videoray system allowed Titan Maritime to record videos of the debris underwater which could immediately be shown to the crane operators to help them locate scrap to salvage. It was much easier and quicker for the crane operators to interpret the video, than rely on sketches and descriptions from a diver. Said Mike Underwood, "The results of the dives were excellent, and we were quickly able to see the condition of the wreck and its cargo and pass this information to the crane operators. At the end of the 3 days we received a purchase order from Titan for the Videoray Pro 3 GTO with Lynn T-38 and video recording system. We then left the equipment in Gibraltar for Titan to continue their work".



▲ Jim Conroy, Titan's salvage supervisor for the "New Flame" just taking delivery of their ROV. The sunken ship behind him is the "New Flame" and behind that is the rock of Gibraltar

The Lynn - Enhancing Visibility In Real-time

The Lynn Hawk System improves visibility on ROV operations in murky water. The ingenious integration board allows the technology to be easily integrated into existing camera and ROV systems. The kit contains a Lynn board and control panel which allows simple retro-fitting to a huge range of equipment. Atlantas Marine can install the Hawk Card into any of the Videoray PRO series. Lynn is supplied as standard with all of the new PRO4 series. We can also supply Lynn in a stand alone box, known as the T38 for use with any analogue camera system.



BlueView Technologies - Underwater Vision

The BlueView high resolution multibeam imaging sonar is popular with police, military and offshore inspection customers worldwide as it is ideal for underwater detection and identification. The high update rate of the multibeam sonar produces high quality images, even on smaller, highly dynamic micro-ROV platforms. BlueView can be used on the VideoRay Pro3 and Pro4 models, and any inspection class ROV including Deep Ocean Engineering ROVs (eg Triggerfish). Alternatively BlueView can be pole or tripod mounted.



◀ VideoRay Pro 3 GTO fitted with Blueview P900 sonar, MicroNav positioning system and manipulator

BlueView
TECHNOLOGIES



◀ New BlueView Dual frequency DF2250/900 sonar head



Smart Tether - A revolution in ROV Navigation

Smart Tether is a complete ROV navigation system, quick to set up, and easy to overlay ROV position onto charts or satellite views of the dive area. The system includes tether, connection box, ultra-mobile PC and software. It is designed to meet multiple missions and tested to survive extreme environments.

Inspecting Low Bridges In Buckinghamshire No Longer A Problem



▲ To date the Bucks CC with their VideoRay have completed over 300 successful missions!!

Buckinghamshire County Council [Bucks CC], as with all Local Government departments, has a legal duty to ensure the safety of the travelling public when using its roads. Every two years they inspect some 600 bridges to ensure that they are 'fit for purpose'. As Buckinghamshire is an inland county, most of the bridges are small and low making them very difficult to access.

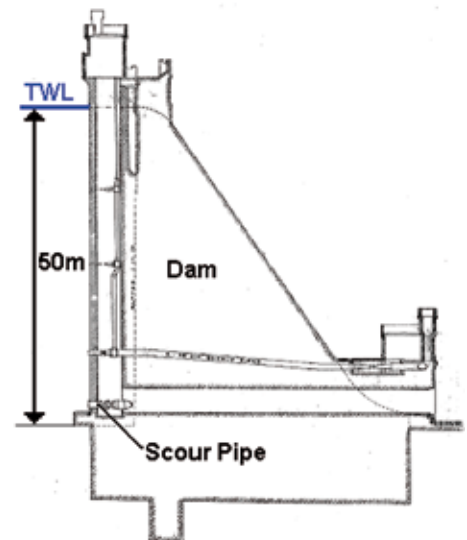
Faced with the prohibitive cost of employing divers (along with variable quality data being collected and safety concerns) Bucks CC decided to investigate unmanned methods of inspection.

Bucks CC Senior Bridge Inspector, Tim Rackham said "As we are a local government office (as opposed to a company whose primary focus is underwater technology) we wanted a system that was easy to operate, fast to deploy, easy to maintain, portable and offer good value for money. We wished to be able to cruise at surface level and be able to look upwards to inspect the underside of our bridges. The need to be able to record inspection data and have a system of quantifying data was also important as this makes periodic monitoring possible. We looked at various ROV systems on the market and were struck by the versatility of VideoRay. The product provided excellent video capture and was rugged enough the work in our demanding environments. The accessories available are perfect for our requirements. The initial advice provided by Atlantias Marine was perfect for a newcomer; the ROVs and the after sales support have been equally impressive".

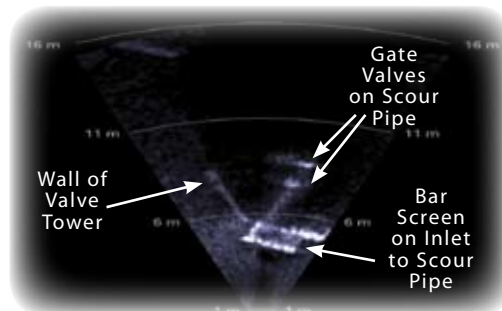
Health And Safety Risks Removed And Money Saved For Costain

As part of the project being undertaken by Costain at Scar House Reservoir in Yorkshire they had to inspect the upstream end of the scour pipe which passed through the base of a gravity dam, at a depth of 47m below top water level.

The standard method would be to use divers. The altitude of the site and depth of the dive would limit 'bottom time' to 5 minutes and the safe system of work demanded lifting equipment and decompression chamber, etc. The quoted price for completion of the survey using divers was in excess of £15K. Instead they hired a VideoRay complete with Blue View Sonar attachment from Atlantias Marine. The ROV was launched easily from the crest of the dam by one operative and flown to the bottom of the dam to complete the inspection. Live video and sonar imager were fed back to a screen on the surface and recorded for future reference. Said Tom Lewis, Costain; "The quality of the images obtained were impressive given the low light conditions at this depth and the sonar capability gave further useful detail beyond the visible spectrum. Without a limitation on bottom time, it was also possible to inspect other elements of the dam, adding value to our client."



▲ Cage covering the scour pipe entrance



▲ Extract from Sonar Output

Atlantias Marine and a VideoRay Pro 3 GTO ROV with BlueView Multibeam sonar not only helped Costain to locate and inspect the scour pipe on the valve tower, but also removed all health and safety risks associated with diving and saved them money. By engaging our services the cost was less than 10% of the best price obtained for completing the survey by diving, and they also achieved other useful information as a bonus!

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

Advice And Consultancy

The emphasis throughout Atlantas 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 Atlantas 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 8 years from supplying and supporting over 100 ROVs.

Atlantas 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. We pride ourselves in giving rapid responses. They won't have to go through any automated phone systems or wait whilst their questions are referred back to manufacturers as we have all the necessary knowledge in-house."

▲ A Police diver from Devon & Cornwall Police, carrying a VideoRay Pro 3 GTO with manipulator during a demonstration day undertaken by us at a quarry near Plymouth.

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.

STARFISH - Seabed imaging system

Tritech's Starfish is the smallest, least expensive side scan sonar on the market [less than £2000] but with no sacrifice to image quality. It is ideal for ROV operators or divers as it can be used to perform wide-area underwater searches and then, once a target of interest has been found, they can switch to an ROV and sonar combination (ie VideoRay and Blueview) to carry out a video inspection.



TRIGGERFISH

The Deep Ocean Triggerfish is part of our medium sized range of ROVs. It has been designed for use as a cost effective, small, powerful and portable system of highest quality. The Triggerfish is designed with ease of maintenance in mind. The polypropylene chassis is totally modular allowing any part to be swiftly and easily replaced as required and ancillary equipment is simple to fit and integrate. It has a new thinner tether for easier handling, and new User Interface to facilitate the operator.



▲ Mike Underwood, Atlantas Marine's Support Manager, with the Deep Ocean TriggerFish



VISIT OUR NEW WEBSITE
www.atlantasmarine.com
for more detailed information

Atlantas **MARINE**

Atlantas 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

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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**