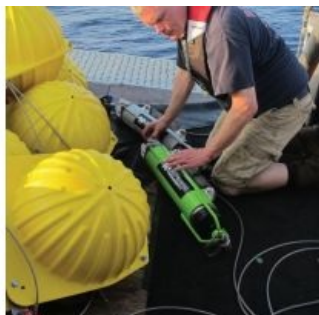


Teledyne Marine Reinforces Its Status



On the opening day of Oceanology International 2014, Teledyne Marine clearly presented the organisation as a manufacturer in the ocean science industry. Between them, the 13 companies that make up the Teledyne Marine Group are thought to serve almost every sector in the industry so it was hardly surprising that the Group was able to launch some significant new products during an opening-day press conference at this year's show.

Notable among these were the Saturn AHRS (Attitude and Heading Reference System) and INS (Inertial Navigation System). With its experience in gyro and motion-sensor design, Teledyne TSS had spotted the need for a reliable and high-performance product that can provide accuracy along with low maintenance and competitive pricing. Fibre-optic gyros are the key to this and they have become another area of expertise for the company

with an acknowledged mastery of mechanical gyro technology.

Two years of detailed research and development subsequently resulted in the new Saturn systems. Advanced digital signal processing and algorithm design have been evolved into a highly accurate and reliable product that is setting new performance benchmarks in its market sector.

The Saturn family is available in both surface and subsea versions and with two levels of accuracy. The Saturn 10 is aimed at the offshore construction, ROV, surface navigation and multibeam survey sectors where reliability, competitive pricing and performance are essential.

The Saturn 30 systems are designed as a solid-state attitude and heading reference (AHRS) product and can be used for primary surface and subsea navigation. Being compact and highly reliable they are claimed to be ideal for vessels of all sizes but especially for smaller craft such as fast ferries, yachts and patrol boats where space may be limited.

Another Teledyne Marine company is Teledyne RD Instruments which is using Oceanology International 2014 to introduce its new Pioneer and the Pathfinder Doppler velocity logs (DVL). These have completed the circle on the company's range of acoustic Doppler products and expanded its underwater navigation capabilities by building on its Navigator and Explorer line of DVLs.

Like the Navigator, the Pathfinder DVL employs a piston head transducer while the Pioneer uses a phased array transducer, similar to the Explorer DVLs. However, both the Pioneer and Pathfinder DVLs now incorporate Teledyne RD's new generation of electronics which offers greater range, lower power consumption, reduced size, additional communication channels and increased reliability.

The advanced capabilities of the new R12K acoustic release launched by Teledyne Benthos have also come from a detailed analysis of customer feedback. The R12K consequently combines the reliable mechanical design for which Teledyne Benthos acoustic releases are well known with new electronic systems that improve its capabilities. The new units are digital signal processor (DSP)-based allowing the move from audible to visual status confirmation signals. The R12K also brings battery voltage indication on command, including percentage remaining, precise unit tilt measurement and release status. Housed in stainless steel, the R12K is rated to 12,000 metres and has a 5,000kg load rating so that it can perform a wide range of tasks associated with the reliable recovery of tools and instrumentation from deep ocean.