

UDT Pacific 2006 Show Preview

UAV Performs "MIRICLES"



[QinetiQ's](#) Zephyr High Altitude Long Endurance (HALE) solar powered Unmanned Aerial Vehicle (UAV) has achieved its longest flight to date during a set of flight trials at the White Sands Missile Range in New Mexico.

The surveillance aircraft is manned with numerous sensors and

[Qinetiq](#) selected Thermoteknix' **MIRICLE®** 110K high performance miniature infrared camera to collect thermal imagery. The **MIRICLE®**

110K video output now offers 384 x 288 resolution in NTSC and RS170 formats as well as in PAL and CCIR.

This gives 44% more pixels when compared to 320 x 240 pixel cameras resulting in a wider field of view for the same focal length lens, or a smaller focal length lens to match the FOV. This leads to smaller and lighter optics and improved FOV to weight ratio, ideal for portable and UAV applications.

[Saab Underwater Systems](#) focus on development and production of underwater systems that gather and process data, detect and neutralise mines and destroy naval targets on or under the surface.



The most well known of our products is the Double Eagle family. A highly appreciated MCM system (by users described as the Formula 1 of ROVs), today in use by many navies around the world.

Double Eagle is operational in MKI, MKII and MKIII versions and since 2006 also available in AUV configurations with possibilities to operate both as AUV and ROV. Another development recently presented by Saab

Underwater Systems is the SUBROV. The SUBROV is intended for use

from a submarine torpedo tube. It has capabilities for inspection, and intervention work and can also be used as a communication platform or an active docking tool for an AUV.

[TENET Defence Ltd](#) and Galdos Systems inc. have completed the integration of multiple geospatial data across the UK Ministry of Defence into a single source through the use of open-standard web services. Geospatial data is a key information component in all defence systems for planning, tasking, and task execution. Most of the time missions require the coordination of air, maritime and land forces, and hence geospatial information for these domains must be integrated in real time. Latencies in information update can easily translate into lost missions and lost lives.

TENET Defence, who produce geospatial technology used in many of the worlds most advanced mission planning and situational awareness systems, believes that the general adoption of the standards that underpin Spatial Data Infrastructure (SDI) will bring massive benefits to defence systems in allowing them to meet users needs.

[Array Systems Computing Inc.](#) completes installation and Site Acceptance Testing (SAT) for the Royal Swedish Navy/FMV SAPPS Programme



Array has completed the Site Acceptance Testing (SAT) and installation of the Sonar Acoustic Post Processing System (SAPPS) for the Royal Swedish Navy (RSwN) and FÖRSVARETS MATERIELVERK (FMV). The SAPPS is being used by the Naval Underwater Sensors Analysis Centre (MUSAC) to analyze the acoustic and electromagnetic signatures of seagoing vessels. This highly flexible signal processor accepts acoustic records, both active and passive, from all sources including surface ships, submarines, aircraft and fixed bottom sensors.

Array has also delivered an Open Architecture Underwater Acoustic

Analysis System for the German Navy

Array is pleased to announce that it has delivered the Underwater Acoustic Analysis System (UAAS) to Bundesamt für Wehrtechnik und Beschaffung (BWB), Germany. The UAAS was installed at the German Navy Hydroacoustic Analysis Centre (HAM) and is in operation at HAM after a successful on-site acceptance. UAAS is used by the sonar analysts at HAM to analyze passive and active sonar data from a number of submarine and surface vessels. See them on booth number 72

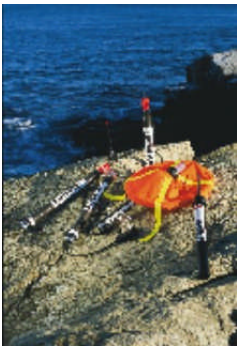
[Lockheed Martin](#) delivered the 100th Aegis Weapon System to the U.S. Navy during a ceremony in which Chief of Naval Operations Adm. Mike Mullen announced that the destroyer receiving the system will be named Wayne E. Meyer, after the retired rear admiral who is widely regarded as the “Father of Aegis.”

“I can think of no better name for a new destroyer than Wayne E. Meyer, and no better tribute to the man who inspired and delivered Aegis to our fleet. He is a legend, a man of great vision and leadership,” said U.S. Navy Chief of Naval Operations Adm. Mike Mullen. “That the ship bearing his name will also receive the 100th Aegis system seems proof enough that his legacy -- and the incredible combat system he made possible -- continue to serve us well in this long war. It is just as impossible to overstate the contributions of Aegis to our nation’s defense as it is to imagine where our great Navy would be without the contributions of Adm. Meyer.” Aegis is the most successful air defense weapon system and multi-mission combat system in the history of the U.S. Navy. Aegis delivered revolutionary capability to the fleet immediately upon its introduction in 1983 and the periodic delivery of progressive spiral development upgrades has since maintained the Aegis Weapon System at a state-of-the-art technology level to take on new, more complex threats.

Seimac a Cobham company, designs, manufactures, and markets a variety of products for global customers in the military, search and rescue, oil and gas, and research industries including Cospas-Sarsat beacons, GOES satellite transmitters, spread spectrum radio modems, VHF radio and optical beacons, and a range of miniaturized ARGOS satellite radio transmitters that are used in tracking objects and animals in marine and terrestrial applications.

Search & Rescue: Seimac's professional line of ProFIND Cospas-Sarsat Beacons has been designed to provide world-wide alerting in the most extreme emergency situations. This professional line of beacons has been developed to meet demanding environmental conditions and to withstand the rigours of severe outdoor use.

The Seimac ProFIND line of Survivor Locator Beacons (SLBs) are specifically designed for use by military organizations and government agencies that expose their personnel to high-risk situations in remote environments where an SLB could make the difference between life and death.



Telemetry & Tracking: The NOVATECH line of RF ARGOS Beacons and Xenon Flashers is the world's leading name in oceanographic recovery and warning applications, used in a wide variety of submersible and surface applications. During submersible applications, they are attached to underwater equipment such as ROVs and scientific equipment. When the equipment returns to surface, the radio beacon and xenon flasher turn on automatically to provide a radio signal and an intense flashing light to assist in the recovery of the equipment. During surface applications, they are used for search and rescue, drift studies, oil spill tracking, equipment location, and warning applications.

Flowserve brings together such respected suppliers as Worcester Controls, Norbro, Gestra and Serck Audco Valves, amongst others. Used in an ever-increasing range of applications in submarines, surface vessels and dockyard installations, Worcester ball valves and Norbro actuators have earned a reputation over the last 40 years for high efficiency and reliability.

Flowserve also supply customised assemblies such as manifold blocks (where multiple valves are mounted on a single manifold), submerged assemblies (where all externals are manufactured from sea water compatible materials), bulkhead mounted valves (where valve and actuator are mounted on opposite sides of a bulkhead) etc. Applications include high pressure hydraulics, life support systems, fire fighting, RO systems, steam, hull valve applications, manifold systems and general services where the valves offer very low noise levels and low magnetic permeability. We would be pleased to discuss specific applications and develop product to meet individual operational criteria.

Radstone Embedded Computing - Reflecting the growing trend in military computing applications to embrace CompactPCI technology, and the increased requirement for powerful and flexible I/O capability, Radstone Embedded Computing today announced the rugged CompactPCI MFIO-C6 Multi-function I/O card. With an MPC8270 PowerQUICC II processor at its heart to offload the management of its array of interfaces, the MFIO-C6 offers an astonishing range of digital and analog I/O functionality.

BATTELLE-managed Chemical and Biological Defense Information Analysis Center (CBIAC) receives prestigious security award.

The Chemical and Biological Defense Information Analysis Center, operated by Battelle, was named a winner of the James S. Cogswell Outstanding Industrial Security Achievement Award at a ceremony in San Diego Sept. 27. Battelle has operated the CBIAC for the Department of Defense for 20 years.

The Cogswell award, bestowed by the U.S. Defense Security Service, is presented annually to a select group of defense contractors for outstanding achievement in matters related to a facility's security program. It is the most prestigious honour the Defense Security Service (DSS) can award to cleared industry.



Argon ST is a rapidly growing systems engineering and development company providing full-service C4ISR (command, control, communications, computers, intelligence, surveillance, and reconnaissance) solutions to a wide range of customers. Our successes include developing systems for signal intercept and identification, airborne imaging systems, threat warning systems, electronic intelligence, active electronic warfare systems, communications reconnaissance systems, torpedo countermeasures systems, imaging systems, communication systems, wireless networks and navigation systems. Argon ST systems support a full range of military and strategic units including surface and sub-surface, airborne, and land-based

platforms serving defence, homeland security, and international customer needs. Through the application of advanced software and cutting-edge communications technologies, we are committed to designing, engineering, and fielding systems and products that enable our customers to successfully accomplish their mission as well as expand their capabilities in C4ISR.