

04_Partner company SOPEMEA

05_Innovation with composites

07_Strengthening project management

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Newsletter



HAP version of the Tiger helicopter equipped with the roof mounted STRIX sight.

Editorial

Dear Reader

Welcome to the thirteenth edition of the ACUTRONIC newsletter. The rich variety of articles, from inside and outside the company, evidences the vast inertia of ACUTRONIC. As we thrive from the well being of our customers, we are full of activity thus underlying the positive trends in the global Aerospace, Defense and Automotive markets. In order to meet our customers' needs in a timely manner, we have staffed our teams in the US and Europe with great new talents underscoring the fact that we are a "brain company".

I hope you enjoy reading the first edition of the 2008 newsletter and welcome any feedback you may have.

Thomas W. Jung
Group CEO ACUTRONIC

ACUTRONIC – A Partner in European Military Procurement Programs

Sascha Revel, Senior Sales Engineer, ACUTRONIC Switzerland

Since the early 1970's, ACUTRONIC has been involved in many major European military programs, providing optimized technical solutions dedicated to specific defense applications.

One of the core activities of ACUTRONIC is to conceive, develop and produce equipment for testing Inertial Guidance Systems. The single-axis AC1125 precision system is a good example. It is specifically designed to provide angular rate, acceleration and position stimuli to devices such as gyroscopes and accelerometers, and is typically used for production testing. AIRBUS Avion-

ics and Simulation in Toulouse selected the AC1125 for avionics development. AIRBUS builds systems that optimize aircraft performance. For the all new European Military Freighter A400M, Airbus designs and manufactures the Back-Up Control Module (BCM), which is tested on the ACUTRONIC Series AC1125L rate table.

Continued on page 02

ACUTRONIC



Italian Eurofighter equipped with the PIRATE FLIR.

In addition to the core “IGTS” (Inertial Guidance Testing Systems) business, and the “HWIL” (hardware-in-the-loop) activity related to worldwide missile programs, ACUTRONIC also delivers motion platforms for land-, sea-, air- and space-borne optical applications.

SAGEM DS, a company of the SAFRAN Group, supplies the Australian, French and Spanish Armies with the STRIX sight on Eurocopter’s Tiger helicopter. STRIX systems are mounted on the roof of these helicopters to enable the observation, tracking and firing control required by anti-tank and anti-helicopter combat helicopters. SAGEM DS in Montluçon, France, chose the ACUTRONIC model DC2295-VA two-axis table to test the STRIX sight. The model DC2295-VA is designed to accommodate periscopes and optical collimators. Its unique configuration, with decoupled axes, enables the use of one single system instead of two separate motion platforms for each optical device.

SAGEM DS also delivers the OSIRIS sight system to the German Army for the Tiger UHT attack helicopter. This mast-mounted sight system offers a wide range of operational capabilities such as

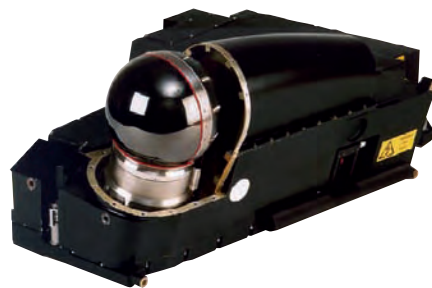
terrain observation, detection, reconnaissance, identification and location of targets and firing control for on-board weapons. SAGEM DS in Palaiseau, France, chose the ACUTRONIC GA350-40 three-axis oscillation table to test the OSIRIS sight. The GA350-40 is built to test gyro-stabilized electro-optical devices that are used in severe vibrating conditions. The use of specific drives and a unique high bandwidth design enables this system to reproduce frequencies of interest on all axes simultaneously.

More and more tactical UAVs, search and rescue helicopters and obser-

vation aircraft are equipped with multi-sensor platforms. For example, TECNOBIT, together with EuroFirst partners GALILEO AVIONICA of Italy and THALES UK, was awarded the development and production of the Eurofighter’s infrared Search/Track system. Known as PIRATE, this 2nd generation infrared imaging system represents a major advance in avionics and gives Eurofighter substantial tactical advantages in air-intercept and air-ground operations.

TECNOBIT chose the ACUTRONIC two-axis FLIR (Forward Looking infrared) tester, model AC2257-HV, to test the PIRATE because it is specifically designed to accommodate such airborne gyro-stabilized optical pods as well as FLIR’s, target designators or camera systems. With a large elevation platform, the AC2257-HV supports a wide range of optics such as the Spanish TECNOBIT’s FLIR.

ACUTRONIC has the capability to provide customized motion platforms for specific applications. Our customers rely on our experience, our digital motion controller ACUTROL®3000, our mechanical structures with high stiffness offering high bandwidth, and our components with high reliability and high accuracy. 1



The PIRATE FLIR (above) is tested on the ACUTRONIC AC2257-HV (right).