

Issue 4 • July 2009

RECENT NEWS**Raytheon Unveils New Modular Payload: Responder™**

Raytheon recently introduced Responder,™ an innovative payload design concept featuring a suite of interchangeable mission-specific sensors that can be deployed rapidly to meet immediate customer needs.

The new concept offers electro-optical (EO) and radio frequency (RF) payload configurations and implements a more streamlined production capability. Because its designs are based on previously fielded space payloads, with basic design elements already tested, the Responder model can significantly reduce total cost and schedule for specific programs.

To read the press release and learn more about Responder:

<http://www.raytheon.com/capabilities/products/responder/>

ARTEMIS Sensor Collects First Hyperspectral Images Aboard TacSat-3

A hyperspectral imaging sensor created by Raytheon Space and Airborne Systems was successfully activated and has collected preliminary imagery aboard the Department of Defense's Tactical Satellite 3 spacecraft. TacSat-3 was launched from Wallops Island, Va., on May 19.

ARTEMIS is designed to be taskable by military field commanders and to deliver tactical surveillance information within 10 minutes of a data request. With its easily manufactured, readily repeatable design, it serves as the model for the electro-optical class of Responder™ modular payloads recently introduced by Raytheon.

To read the press release and learn more about ARTEMIS:

<http://www.raytheon.com/capabilities/products/artemis/>

VIIRS Enters Thermal Vacuum Testing

Raytheon Space and Airborne Systems has begun thermal vacuum testing of its Visible Infrared Imaging Radiometer Suite (VIIRS). The sensor will provide advanced imaging and radiometric capabilities for the National Polar-orbiting Operational Environmental Satellite System (NPOESS), which supports a broad range of national environmental monitoring applications.

During testing, the sensor is placed in an airless chamber and subjected to extremely hot and cold temperatures to simulate the space environment. This is the final series of tests before delivery of the sensor, which is on track to take place this fall.

To read the press release and learn more about VIIRS:

<http://www.raytheon.com/capabilities/products/viirs/>

Innovative Raytheon Technologies Highlighted at Paris Air Show

Raytheon highlighted key technologies and innovative programs at this year's International Paris Air Show, including the VIIRS sensor and the new rapidly deployable Responder payload design. See the full range of the company's technologies that were on display at Paris by visiting:

<http://www.raytheon.com/newsroom/technology/pas09/>



Responder EO Payload



TacSat-3 Launch



VIIRS Sensor