

## Press Release.

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### **JenaStereo: The Photogrammetric Processing Suite**

The Airborne Sensor Division of the Jena-Optronik GmbH today announced the introduction of the affordable photogrammetric processing suite, JenaStereo. To enable production of orthophotos, Digital Elevation Models and other photogrammetric products from the images acquired using the Jena Airborne Scanner (JAS), the German Company is developing the photogrammetric software package JenaStereo, which will provide an automatic processing workflow. With focus on stable data processing and a user friendly license policy, the Jenoptik subsidiary offers the attractive software suite to its worldwide customers.

“After successfully completing many mapping and remote sensing projects for different space agencies and companies, we now developed our first product for the airborne sensor market,” mentioned Rolf Hartman, Head of Software Development and Data Processing. The modular concept allows the inclusion of customized and new modules. The first release of JenaStereo will consist of the following modules:

ASM: JAS sensor model for JenaStereo and BAE Systems' SOCET SET<sup>®</sup> photogrammetry software, as well as preprocessing software.  
AP: Triangulation and bundle adjustment.  
ATE: Automatic terrain extraction.  
ORM: Ortho rectification and mosaic creation.  
CORE will provide the workflow environment and the interfaces.

JenaStereo provides interactive editing and other advanced features, and supports the processing of JAS images with SOCET SET, an extensive software package for digital photogrammetric workstations. It can be used together with the ASM-module to produce orthophotos, DEMs, mosaics and other products from JAS raw data. To this end, the ASM-module contains a JAS-sensor model for SOCET SET to enable a highly accurate workflow and a preprocessing-software to generate rectified images to be used inside SOCET SET. The aim of the sensor model is to establish a relationship between image and ground reference systems according to the sensor geometry, sensor position and orientation and other available data.

To provide an extensive, reliable and highly-accurate solution for processing images from the JAS camera, Jena-Optronik GmbH is developing JenaStereo and also supporting third-party software such as SOCET SET, BINGO, and the post-processing solutions of Applanix and IGI. Jena-Optronik developers are creating a sensor model for Socet Set using the Socet Set Development Kit, which will enable processing of JAS-imagery with Socet Set.

JenaStereo will be available in autumn 2006; the stand-alone ASM module has been tested and will be available for customers in spring 2006. Future releases will include sensor models for other spaceborne and airborne instruments and new processing features for improved data quality especially for the JAS.

About Jena-Optronik GmbH. ([www.jena-optronik.de](http://www.jena-optronik.de))

Founded in 1992, Jena-Optronik GmbH develops and produces optoelectronic instruments and systems, laser control sensors, and software for satellites and for image analysis to be used by the international aerospace industry. Jena-Optronik's developments include its rendezvous and docking sensor, which makes it possible for European and Japanese supply vehicles to plot a precise approach to the ISS international space station. Jena-Optronik GmbH also offers a range of camera systems of various resolutions and provides comprehensive engineering services and software for the aerospace and security technology industries.

Jena-Optronik GmbH, with a staff of over 130 highly qualified employees at its Jena site, is a 100-percent subsidiary of JENOPTIK AG in its Photonics business division.

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