CaligeoPRO 2.2 software provides in a single package all the tools for high speed pre-processing of raw hyperspectral AISA data into images which are ready for applications. CaligeoPRO 2.2 meets the productivity requirements in all hyperspectral applications, including data production in large scale commercial and research projects.

**USER FRIENDLY BORESIGHT TOOL**
CaligeoPRO includes a feature to calibrate mechanical angular offsets between the GPS/IMU sensor and the hyperspectral imager.

**PRECISE GEORECTIFICATION**
Get more accurate georectification with the help of new features, geometric correction of optical aberrations and improved image and navigation data synchronization.

**SPEED IMPROVEMENT**
CaligeoPRO performs 20 times faster than previous generation in normal operations - particularly when DEM is applied thus a complete flight campaign can be preprocessed in a few hours.
RADIOMETRIC PROCESSING
In the radiometric processing, the hyperspectral raw data produced by any AISA sensor is converted to spectral radiance data, using the radiometric calibration data provided by SPECIM with each AISA system. Additionally, in case where the AISA sensor is equipped with a FODIS sensor (fiber optical down-welling irradiance sensor), the image data can be normalized by the FODIS data, and obtain a rough estimate of the reflectance properties of the target.

Data Supported
CaligeoPRO processes data from any single sensor AISA system, including AisaFENIX as well as data from AisaDUAL system. AISA systems working with Applanix POS/AV, Oxford Technical Solutions RT3000 series, Novatel Span, and IGI Aerocontrol GPS/IMU sensor are currently supported. CaligeoPRO includes a feature to calibrate mechanical angular offsets between the GPS/IMU sensor and the hyperspectral imager.

Interactive and Batch Processing Made Easy with Clear User Interface
With its clear user interface, CaligeoPRO provides a logical process flow to go through the data processing chain. Processing can be conducted either in an interactive mode or in automated batch process for large data sets. Real-time preview can be followed while data processing is in progress, for both for a single flight line and batch process. It makes possible immediate validation of correctness of the processing parameters and quality of the data produced.

System Requirements
CaligeoPRO runs as a plug-in application in ENVI 4.7 or newer software environment. CaligeoPRO runs smoothly on a regular office PC with 64 bit Windows operating system. For highest performance, CaligeoPRO exploits efficiently resources of a 64 bit operating system and multiprocessor platform.