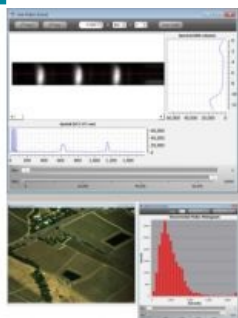


Hyperspectral Software Announced for Airborne Applications



Headwall has recently released its new Hyperspec III application software featuring a set of hyperspectral data capture management tools. The enhanced software suite represents an easy-to-use platform for controlling hyperspectral sensors across applications ranging from manned aircraft to UAV airborne remote sensing. The software is compatible with Headwall's award-winning Hyperspec family of sensors, including lightweight Micro-Hyperspec.

An important benefit of Hyperspec III software is that it is multi-threaded and can control more than one sensor simultaneously. For example, machine-vision applications using multiple sensors are able to operate at peak efficiency with this software platform. With sensor frame rates in excess of 400 FPS, Hyperspec III is designed for rapid collection

and management of large volumes of incoming hyperspectral data. Hyperspec III software runs on Headwall's Hyperspec Data Processing Unit (HDPU), which captures and manages incoming image files for interpretation and post-processing.

With the exponential growth in the deployment of UAV platforms, the Hyperspec III software offers end-users a comprehensive and efficient user environment for quickly obtaining remote sensing data with Headwall's hyperspectral imagers.

Hyperspec III software allows users to choose modules to suit specific needs. For example, airborne versions of the software provide GPS/INU integration and time stamping, ortho-rectification, precise calibration, and start/stop triggering of the sensor. This optimises flight-path efficiency, which is a highly desired capability for the remote-sensing community. The Hyperspec III software also includes the ability to interface with Google Maps to trigger sensor operation based on pre-defined GPS coordinates.

Pan-and-tilt and other motion-control features are built into Hyperspec III, yielding a virtually unlimited array of use-cases for hyperspectral imaging that range from ground to space.

<https://www.gim-international.com/content/news/hyperspectral-software-announced-for-airborne-applications>
