ENVI Atmospheric Correction Module

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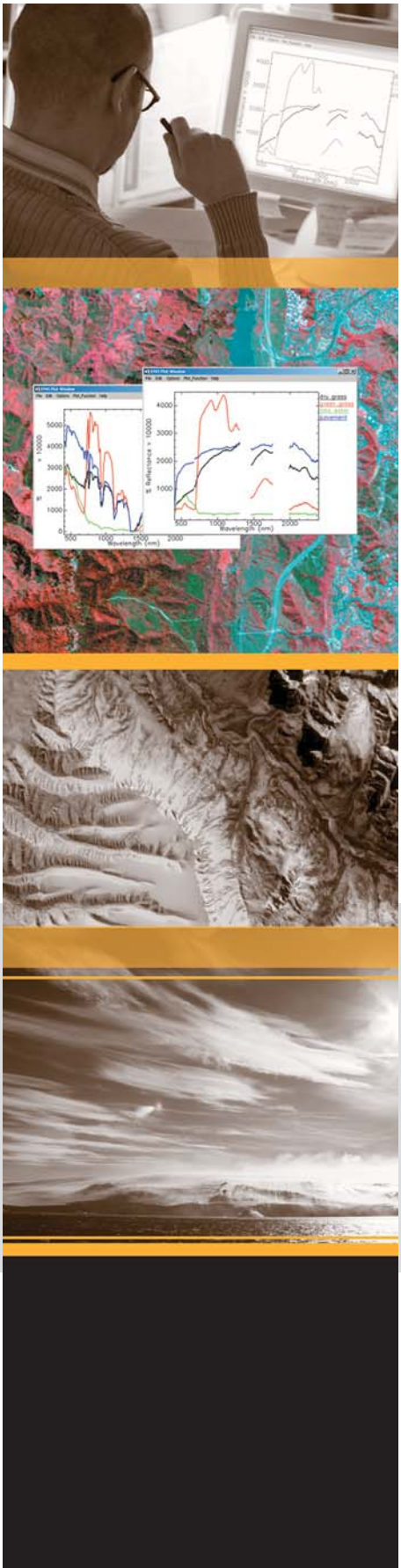
In the field of image analysis, you need an accurate representation of a land area, whether you're analyzing vegetation, locating an object, or detecting change in an area over time. Deriving accurate results is challenging as most remotely sensed imagery contains "noise," caused by atmospheric particles that can obsure the image and make quantitative analysis unreliable.

Accurately Correct for Atmospheric Conditions

Then ENVI Atmospheric Correction Module allows you to easily remove atmospheric interference from your imagery, providing you with data that is accurate and reliable. Compared with other tools that offer pre-calculated models based on generic atmospheric conditions, the ENVI method treats each image and its atmospheric imprint individually, creating a unique model every time that is a true, reliable representation of a specific image scene. This add-on module to ENVI delivers a flexible solution with the accuracy and scientific detail you need, regardless of your application.

Advanced Methods and Algorithms

The ENVI Atmospheric Correction Module provides different analysis options depending on your specific needs, ranging from an advanced, physics-based technique, to an on-the-fly method for use in real time data processing. When all parameters relating to atmospheric conditions in an image are available to you, the MODTRAN-based **Fast Line-of-Sight Atmospheric Analysis of Spectral Hypercubes (FLAASH)** technique provides highly detailed, scientifically precise results. Or, if not all atmospheric parameters are available, such as in flight data correction, the **Quick Atmospheric Correction (QUAC)** method allows advanced atmospheric correction based on information derived from the image in an easy to use interface. The ENVI Atmospheric Correction Module works on both multispectral as well as hyperspectral data and will automatically support a wide array of common sensors.



The ENVI Atmospheric Correction Module provides:

- A distinctive data polishing technique for realistic representations
- An adjacency correction method to fix images with high contrast areas that produce "mixed signatures" or artifacts
- A highly adjustable interface for fine tuning conditions during data capture to achieve very accurate results
- A method that treats each pixel individually
- A very fast option for real time processing or for situations when you don't have the atmospheric conditions at the time of capture

Because not all atmospheric tools are created equal.

Learn more about the ENVI Atmospheric Correction Module at **www.ittvis.com/atmosphere** or call 303-786-9900.

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