



TerraSpec®/The Spectral Geologist™ Pro Spectral Analysis Processing Packages

Providing new TerraSpec 4 Hi-Res mineral analyzer users the right tools to effectively use the spectral data in your exploration program

Arm yourself and your team with the necessary skills to process large volumes of spectral data consistently and independently. Take advantage of the Spectral Analysis Processing Program, offered by ASD and conducted by AusSpec's mining geology experts, to gain the skills and knowledge to process spectral data at a professional level.

Confidently use spectral data for mapping mineral assemblages, logging/mapping, deposit characterization and developing vectors to mineralization in your exploration programs.

Existing TerraSpec instrument owners may also purchase any of these packages.

SPECTRAL ANALYSIS PROCESSING PACKAGES:

- TerraSpec/TSG® Pro Starter Package
- TerraSpec/TSG Pro™ Development Package
- Calibration-Support Program

Spectral Analysis Processing Packages

TerraSpec/TSG Pro Starter Package

A package designed for beginners to spectral analysis or for geologists needing baseline TSG functionality. This includes spectral data set analysis, plotting mineral characteristics, automating mineral interpretation, integrating spectral data with imported data, visualizing the mineralogy of large core logging data sets as well as other functionality, this package includes:

- TSG Pro license with USB dongle
- Book: “Spectral Interpretation Field Manual” — a spectral library of a wide range of common minerals
- Book: “A Practical Applications Guide to using the TerraSpec in Exploration and Mining”
- Full technical support
- Introductory Spectral analysis and TSG training (monthly webinars/training videos by AusSpec experts).

Note: AusSpec will provide technical support through all packages either directly via email or live online customer support.

TerraSpec/TSG Pro Development Package

For more experienced TSG users, this package is designed to train scientists in using spectral data for mapping mineral assemblages, logging/mapping, deposit characterization and developing vectors to mineralization in their exploration programs.

This package includes:

- Geological environment spectral analysis training via webinar and delivered by AusSpec experts. Advanced training building on the starter package.
 1. Principles of spectral analysis, the identifying features of mineral spectra and the information gained from them;
 2. Different approaches to spectral interpretation and analysis, including manual interpretation, automated interpretation methods and mineral indices;
 3. Practical aspects of sampling and measurement issues, including QA;
 4. Advanced data handling and processing methods that can readily be used to optimize the information gained in the spectral data;
 5. Integrating spectral data with other exploration and mining data, what the data mean and how to interpret them in forms such as down hole logs, maps or scatter plots to develop a better understanding of an alteration system.
- Case study examples and data sets.
- Presented twice a month: webinar #1 centered on training points 1-4: webinar #2 is specific to processing spectral data in particular geological environments, as outlined in point 5. Users are encouraged to take part in the webinars regularly during the first 12 months.
- On-site option: expert trainers available for on-site training if a more personal training experience is desired

Calibration-Support Program

To further fine tune the data collection and analysis process and develop specific strategies for indicator minerals in unique environments, the Calibration-Support Program provides advanced users with access to:

Quality Assurance:

- Quality assurance support to staff by assessing the ongoing performance of the spectral program. This involves assessment of spectral quality, data output, and accuracy of data output for selected batches of spectra.
- Summary QA reports on selected batches of spectra (~1000 spectra) every 4 months (3000 spectra per year).
- As part of the QA assessment, provide recommendations where necessary to improve spectral analysis in the project areas, including identifying additional mineral classes to incorporate into the processing, and improvements in spectral measurement and spectral sampling.
- Confirm that the spectral processing output meets clients expectations.

Technical Support:

- Provide technical support on all issues relating to output data, data gathering and spectral quality.

Contact your ASD sales representative for more details!

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